



UNIVERSITY OF NOVI SAD
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation
UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering

STUDY PROGRAMME ACCREDITATION MATERIAL:

POWER, ELECTRONIC AND TELECOMMUNICATION ENGINEERING

UNDERGRADUATE ACADEMIC STUDIES

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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	

Programme name	Power, Electronic and Telecommunication Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Technical-Technological Science
Scientific, professional or art field	Electrical and Computer Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	240-245
Academic degree, abbreviation	Bachelor with Honours in Electrical and Computer Engineering, B.Elec.Comp.Eng.
Study length	4
Programme implementation starting year	2005
Future course implementation starting year (for new programme)	
Number of students attending this programme	641
Planned number of students to be enrolled in this programme	720
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2008
Web address containing programme information	http://www.ftn.uns.ac.rs



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 00. Introduction

The study programme Power, Electronic and Telecommunications Engineering has been created on the basis of modern scientific knowledge in the field of Electrical and Computer Engineering, modeled after similar study programmes at the leading universities in the world and in accordance with the Bologna recommendations and technology strategy development of AP Vojvodina and Serbia.

Lectures within the undergraduate academic studies last 4 years and a graduate thesis is planned for the eighth semester.

Each year the study programme usually enrolls 200 students. Students who successfully complete this study programme obtain a diploma in Electrical and Computer Engineering with the title of the study programme Power, Electronic and Telecommunications Engineering, as well as information on particular competences that the students obtain during their studies.

The study programme enables students to acquire necessary knowledge, skills and practical experience in the field of power systems, power electronics, electric machines, electronics, communication technologies, signal processing, as well as measurement systems. Acquired knowledge and skills enable graduate students to successfully answer the demands of the market and knowledge-based economy in the field of modern electrical and computer engineering.

Lectures in professionally applied and scientific-professional subjects are carried out by teachers from the Department of the Power, Electronics and Telecommunications Engineering at the Faculty of Technical Sciences in Novi Sad, which is prime and responsible for the study programme. Lectures in theoretical-methodological and academic-general educational subjects are carried out by teachers from other departments of the Faculty of Technical Sciences. The practical part of the lectures is carried out in modern and well equipped laboratories in which students are trained to solve practical engineering problems.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 01. Programme Structure

The outcomes of the learning process include knowledge, skills and competences which enable students to apply acquired knowledge to the problems arising in engineering practice, to use expert literature and to enable students to continue their studies, if they choose so.

Within the study programme Power, Electronic and Telecommunication Engineering there are five modules: (a) Power Engineering – Power Engineering Systems, (b) Power Engineering – Power Electronics and Electric Machines, (c) Microcomputer Electronics, (d) Communication Technologies and Signal Processing, (e) Measurement Systems. The first year of studies is common, after which students opt for one of the modules.

For the first two modules, Power Engineering – Power Engineering Systems and Power Engineering – Power Electronics and Electric Machines, the first three years are common. Within the module Microcomputer Electronics, through elective courses, students acquire competences from the following areas: Embedded Systems and Algorithms, Microelectronics and Applied Electronics. Within the module Communication Technologies and Signal Processing, through elective courses, students acquire competences from the following areas: Signal Processing, Communication Systems and Software.

Students have obligatory and elective courses within the elected module. Elective courses are chosen from a list of suggested courses. An elective course can be replaced with one of the courses taught at the Faculty of Technical Sciences or the University of Novi Sad with the consent of the head of the study programme.

Courses are carried out in the form of lectures and practice. At lectures, while using the appropriate modern didactic-methodological methods, students become familiar with the course subject matter and are offered explanations that help them understand it more easily. At practice classes, complementing the lectures, students solve specific engineering problems and are given examples which further illustrate the course matter. The practice classes can be auditory, computer or laboratory practice. Consultations also present an important segment of knowledge transfer.

Number of the students per group depends on the character of practice. Student obligations may comprise of research papers, homework assignments, as well as smaller professional project assignments. Every activity of the student during the teaching process is evaluated and graded in accordance with the rules established at the Faculty level. The number of obtained credits is represented by the unique methodology and it reflects student load.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 02. Programme Objectives

The goal of the study programme is to educate students for the profession of an engineer of electrical and computer engineering-Bachelor in accordance with the economy needs, knowledge based economy and society at large.

The study programme Power, Electronic and Telecommunication Engineering is designed to provide acquisition of competencies necessary for the graduated engineer of electrical and computer engineering. An important role of all teachers in this study programme is to educate top engineers ready for active involvement in the regional development and responsible for the maintenance of the high-tech and research potential of Vojvodina and Serbia in the field of electrical and computer engineering.

The objective of the study programme is fully in accordance with the main objectives and goals of the Faculty of Technical Sciences and is in line with the high educational standards proposed by our educational system. Also, the realization of this study programme educates engineers of electrical and computer engineering who possess knowledge necessary for the labour market in Serbia, the region and beyond.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 03. Programme Goals

The objective of the study programme is to produce qualified engineers-bachelors who are highly competent for the development and design of complex systems and their parts and who possess the fundamental knowledge necessary for further master and doctoral studies and are able to keep step with the fast technological development in the field of power engineering, electrical machines, electronics, communication systems and software, signal processing, as well as measurement systems.

The study programme enables students to analyze problems and develop ability of critical thinking, the development of team work skills and the acquisition of specific practical skills necessary for successful professionals, as well as the ability to present (in oral and written form) their results to professional and wider public.

One of the specific objectives of the study programme is the development of students' awareness of the necessity for permanent education and advancement in the field of electrical and computer engineering.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 04. Graduates' Competencies

After completing the study programme, students will be competent for the development, engineering, design and application of modern complex systems and their parts in the field of electrical and computer engineering (power engineering, power electronics, electric machines, electronics, measurement systems, telecommunications, signal processing, microelectronics).

Students who successfully complete the study programme in the field of power, electric machines, electronics, telecommunications and electrical measurements will be able to:

- understand and apply fundamental knowledge in electrical engineering.
- apply knowledge in mathematics, physics and engineering disciplines.
- design systems, components and processes based on the provided specifications.
- use engineering approach and modern software tools in engineering practice.
- design and carry out engineering experiments and afterwards analyze and interpret obtained data.
- understand, notice, formulate and solve engineering problems.
- advance their knowledge and follow technological development.
- work in a team composed of experts in different fields.
- understand professional and ethical responsibility of electrical and computer engineers.
- communicate efficiently.
- understand impact of engineering solutions on society and environment.
- accept the need and actively participate in life long education.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 05. Curriculum

The curriculum of the undergraduate academic studies Power, Electronic and Telecommunication Engineering is designed to satisfy objectives of the study programme. In the structure of the study programme there are academic-general education, theoretic-methodological, scientific-professional and professional-applicative courses. In order to meet individual preferences of students, study programme curriculum contains elective courses as well, through which student obtain particular competences within the elected modules.

All courses last one semester and are worth certain number of ECTS credits, where one credit corresponds to approximately 30 hours of student activity. The order of course lectures in the study programme is such that the knowledge required for the following courses is gained through previously attended courses. In order to successfully complete this study programme, students must collect at least 240 ECTS credits.

Curriculum includes description of each course which contains the name of the course, the type of the course, the year and semester of the studies, the number of ECTS credits, the name of the lecturer, the course objective with the expected outcome, the knowledge and competences the student will acquire, the prerequisites for taking the course, the course content, the recommended literature, the methods of lecturing, the knowledge tests and evaluation and other relevant data.

Professional practice lasting 45 hours is an integral part of this curriculum and it is realized in adequate scientific-research institutions, innovative organizations, companies, public institutions, etc.

Students complete their studies by writing the graduate thesis which consists of theoretical-methodological preparations necessary for complete understanding of the field, writing and defense of the graduate thesis.

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering	

Table 5.2 Course specification

Course:		Discrete Mathematics			
Course id:	E101A				
Number of ECTS:	9				
Teachers:	Doroslovački D. Rade, Adžić Z. Nevenka, Sladoje Matić I. Nataša, Teofanov Đ. Ljiljana				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	4	0	0	1	
Precondition courses		None			
1. Educational goal:					
Enabling students to think abstractly and gain new knowledge in the field of elementary, general, abstract and linear algebra, as well as in the fundamentals of classic combinatorics.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge is used in further education and professional courses. Mathematical models are designed and solved in professional courses using the material from this course.					
3. Course content/structure:					
Lectures (Theoretical lectures). Logic, relations, functions, Boolean algebra, groups, rings, fields, polynomials, complex numbers, finite fields, free vectors, analytical geometry in space (vector!), determinants, systems of linear equations, vector space, matrices, characteristic roots and vectors. Practice lectures (lab): In laboratory exercises adequate examples and tests from the theoretical lectures are done in order to exercise lectured theory where exercises contribute to understanding of the theory.					
4. Teaching methods:					
Lectures; Computing practice. Consultations. Lectures are dynamic and interactive. In lectures theoretical part of the course is presented accompanied by characteristic and representative examples in order to better understand the matter. In practice, which follows lectures, typical problems are solved and lectured theory is deepened. Besides lectures and practice, regular consultations and group consultations are also held. Part of the course, which is a logical unit, can be passed within the teaching process in the following 2 modules (the first module: relations, functions, Boolean algebra, groups, rings, fields, polynomials, complex numbers, finite fields, free vectors, analytical geometry in space (vector!); the second module: determinants, system of linear equations, vector space, matrices, characteristic roots and vectors. Theoretical part is passed through the test (elimination and basic), Practical part is passed through solving five serious problems.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 20.00
Lecture attendance		Yes	5.00	Theoretical part of the exam	Yes 40.00
Test		Yes	15.00		
Test		Yes	15.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Doroslovački R	Principi algebre: opšte, linearne i diskretne		FTN Novi Sad	2012
2,	Doroslovački R., Nedović Lj.	Testovi iz diskretne matematike i linearne algebre		FTN, Novi Sad	2011
3,	Doroslovački R., Nedović Lj.	Zbirka ispitnih zadataka iz diskretne matematike		FTN, Novi Sad	2006
4,	Rade Doroslovački	Principi algebre, opšte, diskretne i linearne		ALFA GRF NOVI SAD	2008

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Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering 1			
Course id: E105					
Number of ECTS: 9					
Teachers:		Bajović M. Vera, Đurić M. Nikola, Pekarić-Nadž M. Neda			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
4	4	0	0		0
Precondition courses		None			
1. Educational goal:					
The course objective is to introduce students to the terminology of electrical engineering, the basic physical laws of electrostatics and to enable students to analyze electric circuits of time-invariant currents. Also, the objective is to teach the students to calculate basic parameters of the elements in such circuits, resistors and capacitors.					
2. Educational outcomes (acquired knowledge):					
The students who successfully complete the course are able: -to calculate the capacitance of a simple homogeneous symmetrical structure (e.g. coaxial cable with several layers of dielectrics) -to calculate the resistance of homogeneous multilayer structure - to analyze simple electric circuit of time-invariant current - to calculate maximum power of elements in the circuits and protect them from burning out.					
3. Course content/structure:					
Electrostatics (Electric field strength vector, Gauss's law, Electric potential and voltage, Conductors in electrostatic field, Capacitance and capacitors, Dielectrics in electrostatic field, Boundary conditions, Energy and forces in electrostatic field). Electric circuits of time-invariant currents (Current density vector and current intensity, Ohm's law and resistors, Joule's law, Kirchhoff's Laws, Generators, Conditions of maximum power transmission, Power conservation theorem, Methods of circuit analysis, Superposition Theorem, Thevenin's and Norton's theorem, Compensation theorem, Reciprocity theorem, Electrical circuits with capacitors).					
4. Teaching methods:					
The teaching process consists of lectures and tutorials, with occasional video presentations. The inductive method is applied in the lectures. The students' knowledge grows gradually, trough many simple problems solving.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko D. Popović	Osnovi Elektrotehnike 1		Građevinska knjiga Beograd	1998
2,	N. Pekarić, V. Bajović	Zbirka rešenih ispitnih zadataka		Građevinska knjiga Beograd	2007

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Table 5.2 Course specification

Course:		Mechanics			
Course id: E104					
Number of ECTS: 5					
Teacher:		Simić S. Srboljub			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Getting introduced to basic concepts and principles of mechanics as a part of physics and as a fundamental engineering discipline. Mastering basic methods of the analysis and solution of engineering problems.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge students use as a conceptual basis in other engineering disciplines.					
3. Course content/structure:					
Units of measurement, physical measurement, and vectors. Rectilinear motion of a particle. Curvilinear motion of a particle. Newton's law of motion. Application of Newton's laws. Work and kinetic energy. Potential energy and conservation of energy. Momentum, impulse and collision. Rotational motion of rigid bodies. Rotational dynamics. Equilibrium and elasticity. Gravitation. Oscillatory movement. Computer simulation of dynamic systems.					
4. Teaching methods:					
Lectures comprise theoretical background of certain topic, as well as illustrative examples. Exercise classes are consisted of the application of theoretical knowledge and development of the methods of analysis to selected problems. Wherever it is possible, the problems of mechanics are illustrated by computer simulations, or supported by video clips of real processes.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Coloquium exam	Yes 20.00
Homework		Yes	20.00	Coloquium exam	Yes 20.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Đorđe Đukić, Teodor Atanacković, Livija Cvetičanin	Mehanika		Univerzitet u Novom Sadu, Fakultet tehničkih nauka	2005
2,	S.M. Targ	Teorijska mehanika - kratak kurs		Građevinska knjiga, Beograd	1983
3,	V.M. Vučić, D.M. Ivanović	Fizika I		Naučna knjiga, Beograd	1988
4,	H.D. Young, R.A. Freedman	University Physics		Addison-Wesley	2008

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Table 5.2 Course specification

Course:		Software Lab			
Course id:	E109				
Number of ECTS:	1				
Teachers:					
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Acquisition of new knowledge in the use of personal computers. Equalization of the level of student knowledge and enabling students to further follow lectures, computer labs, write reports, seminar papers and bachelor thesis.					
2. Educational outcomes (acquired knowledge):					
Independent use of personal computers and working on following programs: Windows Explorer, Control Panel, DOS, Internet Explorer, Outlook Express, Word, Excel, Power Point. Acquired knowledge will be used in engineering practice as well as in further education.					
3. Course content/structure:					
Windows Explorer: folder tree structure, Desktop, My Computer, My Network Places, View, search, working with folders, files, archiving, send to, Control Panel, DOS, Internet Explorer, Outlook Express, Web mail Word: View/Toolbars, Tools/Options, Save (Autorecover info), page setup, moving through the documnet, text selection, editing, fonts, paragraph, symbols, view, print, undo, redo, history, find, replace, bullets and numbering, columns, tabs, Insert, header, footer, drawing, tables, writing equations, English spelling and grammar, Thesaurus, Word Count, Track Changes, working with multiple documents.Excel: spreadsheet, formatting, Page Setup, filling, hiding cells, border, color, cell merge, naming cells, format cells, formulas, basic functions, graphs, data sorting, validation, drop-menu in the cell, Windows/split.Power Point: slide layout, fonts, lining, Slide master, deleting text and whole fields, Insert Picture / Clip Art, From File, Table, formatting slide (Background, Slide design), Slide Show / Custom Animation, Slide Transition, Slide Sorter View, Slide Show, Hide slide, View / Notes page.					
4. Teaching methods:					
Lectures and computer lab.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Practical part of the exam - tasks	Yes70.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1.	V. Crnojević-Bengin	Skripta		FTN, Novi Sad	2005

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Table 5.2 Course specification

Course:		Sociology of Technique			
Course id:	E106				
Number of ECTS:	2				
Teacher:	Radivojević D. Radoš				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	0	0		0
Precondition courses		None			
1. Educational goal:					
Enabling engineers to understand social importance and role of technical sciences in the society development, positive and negative implications of technical sciences to the development of society and men, as well as self social importance and responsibility in the creation of human society.					
2. Educational outcomes (acquired knowledge):					
Acquisition of social knowledge about features, sources, social functions and creators of technical knowledge; knowledge about the impact of the nature of social systems on technical development and the impact of technique on the society development; knowledge about impact of technique on globalization process, nature destruction and creation of risky society; knowledge about impact of technique on changes of the work contents and work organization forms; knowledge about the impact of the mass media on people's lives, education, culture and democracy.					
3. Course content/structure:					
Technical knowledge: features and social functions of technique, sources of technical knowledge, creators of technical knowledge, dissemination of technical knowledge, scientific-technical potential, science and technique relationship. Relationship between technique and society: the impact of society on technical development and the impact of technical sciences on the development of society-industrial and information society. The impact of technical sciences on life, awareness and culture. Technical sciences and globalization: causes and dimensions of globalization, technological gap, brain drain; Technical sciences and work organization: flexible production, network organizations, knowledge economy, electronic economy. Technical sciences and work: reduction of working hours, change of work content, decline of the work importance. Technical sciences and alienation at work: the impact of television on society, media theories, mobile telephony and internet, the impact of internet on society, media imperialism, mass culture, cyber criminal. Technical sciences and education: education and new communication technologies, education and technological gap, virtual media and virtual reality, resistance and alternatives to global media. Technical sciences and ecological crisis: global warming, genetically modified food, technical risks, technical society as risky technical intelligence: social status and impact, engineering ethics.					
4. Teaching methods:					
The problem is presented in lectures, and then a discussion is opened in which students may ask questions, give objections and contribute to the presented matter.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 50.00
Test		Yes	45.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Radoš Radivojević	Tehnika i društvo		Fakultet tehničkih nauka, Novi Sad	2004
2,	Entoni Gidens	Sociologija		Ekonomski fakultet, Beograd	2003
3,	D. Mackenzie, J. Wajeman	The Social Shaping of Technology		Open Univer. Pres.	1985
4,	Majkl, Haralambos	Sociologija		Školska knjiga, Zagreb	2004
5,	Radoš Radivojević	Sociologija nauke		Stylos, Novi Sad	1995
6,	Chris Barker	Television, Globalization and Cultural Identities		Open University Press	1999
7,	Eugene Loos, Enid Mante-Meijer, Leslie Haddon	The Social Dynamics of Information and Communication Technology		Ashgate	2008
8,	Wenda K. Bauchspies, Jennifer Croissant, Sal Restivo	Science, Technology and Society: A Sociological Approach		John Wiley & Sons	2005
9,	Jan L. Harrington	Technology and Society		Jones & Bartlet	2011
10,	Deborah G. Johnson, Jameson M. Wetmore	Technology and Society: Building our Sociotechnical Future		MIT Press	2009

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Table 5.2 Course specification

Course:		English Language - Elementary			
Course id: EJ01Z					
Number of ECTS: 2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		0	0	0	0
Precondition courses		None			
1. Educational goal:					
Mastering the basics of the English language: pronunciation of English sounds, acquisition of vocabulary related to everyday situations, mastering the basics of English morphology and syntax.					
2. Educational outcomes (acquired knowledge):					
Students are able to use spoken and written English in simple, everyday situations.					
3. Course content/structure:					
The use of articles, nouns (nouns in Plural), adjectives (types of adjectives, possessive adjectives, comparison of adjectives), pronouns (personal pronouns), auxiliary verbs (be, do, have), modal verbs. The use and construction of tenses (Present Simple, Present Continuous, Present Perfect, Past Simple, future forms). Question and negative form of the sentence. Vocabulary related to everyday topics: introduction, family, free time, work, food and beverages, naming and description of everyday objects, description of people and places etc.					
4. Teaching methods:					
Communicative method is used, since the objectives and contents of the course are aimed at communication which is very complex. The emphasis is placed on communication between students and teachers and students among themselves, as well as balanced development of all language skills.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	John and Liz Soars	New Headway Elementary		Oxford University Press	2002
2,	Grupa autora	Oxford English - Serbian Dictionary		Oxford University Press	2006
3,	N. Coe, M. Harrison, K. Peterson	Oxford Practice Grammar - Basic		Oxford University Press	2006

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Table 5.2 Course specification

Course:		Mathematical Analysis 1			
Course id:	E102A				
Number of ECTS:	9				
Teachers:	Kovačević M. Ilija, Mihailović P. Biljana				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	4	0	0	1	
Precondition courses		None			
1. Educational goal:					
Enabling students to think abstract and gain basic knowledge in the field of Mathematical analysis (limiting processes, differential and integral calculus, ordinary differential equations).					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge is used in further education and student designs and solves mathematical models in professional courses using the knowledge from Mathematical Analysis 1.					
3. Course content/structure:					
Theoretical lectures: Field of real and complex numbers. Metric space. Series (convergence of series, real and complex sequences, complete metric space). Limits, continuity and uniform continuity of functions. Real functions of a real variable (limit, continuity, uniform continuity, differential calculus and application, indefinite integral; definite integral and application; improper integral). Real functions of several real variables (limits, continuity, uniform continuity, differential calculus and application). Ordinary differential equations of first and higher order. Linear differential equations of n-th order. Practice (Exercises): Corresponding examples from theoretical lectures are done in exercises, thus practicing the taught lectures and understanding them better.					
4. Teaching methods:					
Lectures; Numeric computing practice. Consultations. Lectures are combined. Theoretical part of the lectures is accompanied by typical examples in order to better understand the matter taught in lectures. In practice, which accompanies lectures, typical problems are solved and the knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis. Part of the lectures, which presents one logical whole, can be passed during the teaching process in the form of the following 5 modules (the first module: limiting processes; the second module: differential calculus of real functions of a real variable, the third module: differential calculus of real functions of several variables; the fourth module: integral calculus; the fifth module: ordinary differential equations).					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	3.00	Final exam - part one	No 50.00
Lecture attendance		Yes	2.00	Final exam - part two	No 50.00
Test		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Ilija Kovačević, Nebojša Ralević, V. Marić, B. Carić, S. Medić, M. Novković	Matematička analiza 1 - uvodni pojmovi i granični procesi		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
2,	I. Kovačević, V. Marić, M. Novković, B. Carić, N. Ralević, S. Medić	Matemarička analiza 1 - integralni i diferencijalni račun, obične diferencijalne jednačine		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
3,	M. Novković, B. Carić, S. Medić, V. Čurić, I.	Zbirka rešenih zadataka iz Matematičke analize 1		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
4,	I. Kovačević, B. Carić, S. Medić, V. Čurić	Testovi ispita iz Matematičke analize 1		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012

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Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering 2			
Course id:	E110				
Number of ECTS:	9				
Teachers:		Bajović M. Vera, Đurić M. Nikola, Pekarić-Nadž M. Neda			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	4	0	0	0	
Precondition courses		None			
1. Educational goal:					
The course objective is to introduce students to electric and magnetic field terminology, to basic laws of electromagnetics and to enable students to analyze electric circuits of time-varying currents. In addition to analysis of simple sinusoidal current circuits, the objective is to enable students to analyze balanced three-phase networks. Also, the objective is to teach the students to calculate impedance and the basic parameters of the loads in such networks, resistors, coils, capacitors and coupled coils.					
2. Educational outcomes (acquired knowledge):					
The students who successfully complete the course are able to calculate magnetic field of simple symmetrical structures, to calculate the inductance of simple structure with the coils, to solve simple electric and magnetic circuits of sinusoidal currents, to calculate instantaneous, active, reactive and apparent power of the elements in the circuits and to correct power factor in single-phase and balanced three-phase circuits.					
3. Course content/structure:					
Time-invariant magnetic field, (Magnetic flux density vector, Biot-Savart Law, Magnetic flux, Ampere's Law, Ferromagnetic materials, Magnetic properties of materials, Boundary conditions, Magnetic circuits). Slowly time-varying electromagnetic field (Electromagnetic induction, Faraday's Law, Lentz's Law, Eddy currents, Skin effect and proximity effect, Self inductance and mutual inductance, Transformers, Energy and forces in magnetic field). Electric circuits of time-varying current (Simple sinusoidal current circuits, Impedance, Circuit analysis in frequency domain, Complex power, Maximum average power transmission, Power factor correction, Simple resonant circuits, Magnetically coupled circuits, Balanced three-phase systems).					
4. Teaching methods:					
The teaching process consists of lectures and tutorials, with occasional video presentations. The inductive method is applied in the lectures. The students' knowledge grows gradually, trough many simple problems solving.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko D. Popović	Osnovi Elektrotehnike 2		Gradjevinska knjiga Beograd	2002
2,	N. Pekarić, V. Bajović	Zbirka rešenih ispitnih zadataka		Građevinska knjiga Beograd	2007

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Table 5.2 Course specification

Course:		Physics			
Course id:	E103				
Number of ECTS:	5				
Teachers:		Kozmidis-Luburić F. Uranija, Kozmidis-Petrović F. Ana, Satarić V. Miljko			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Provide students with basic knowledge in basic physics laws, particularly thermodynamics, wave motion and the basis of atomic physics, with an emphasis on their application in electronics.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge will be used in professional courses for understanding the physical essence of technical processes.					
3. Course content/structure:					
Atomic and molecular structure of matter. Maxwell and Boltzmann statistics of micro particles. Zero, first, second and third law of thermodynamics. Phase transitions, meting and boiling. Kinetic properties, diffusion, heat conduction, viscosity. Progressive mechanical waves. Ultrasound and application. Doppler effect and application. Physical and physiological sound intensity. Electromagnetic waves, the classical Hertzian dipole, Bohr model of the atom, Photon emission, Photo effect and Compton effect. De Broglie duality, electronic microscope. Geometrical optics, wave refraction, lens, microscope. Wave optics, interference, diffraction, dispersion, polarization. Elementary principles of Quantum Mechanics, Schrödinger equation, Heisenberg's principle. Fermi – Dirac distribution.					
4. Teaching methods:					
Two logical wholes, thermodynamics and wave motion can be passed through two colloquiums. Colloquium is part of the examination. Colloquium and examination are written and oral. Written part is eliminating. Oral part is taken orally.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	20.00	Coloquium exam	Yes 70.00
Lecture attendance		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	M.V.Satarić	FIZIKA, (Termodinamika, Talasno kretanje i Osnove kvantne mehanike)		Fakultet tehničkih nauka, Novi Sad	2006
2,	M.V.Satarić i A.Mihajlović	Praktikum laboratorijskih vežbi iz fizike		Fakultet tehničkih nauka, Novi Sad	2010
3,	M.Satarić i drugi	Zbirka rešenih zadataka iz fizike I i II deo		Fakultet tehničkih nauka, Novi Sad	1998

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Table 5.2 Course specification

Course:		Programming Languages and Data Structures				
Course id:	E111					
Number of ECTS:	7					
Teachers:		Malbaški T. Dušan, Popov B. Srđan				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses		None				
1. Educational goal:						
Introducing students to principles and techniques of creating programme procedures with a special emphasis on data structures.						
2. Educational outcomes (acquired knowledge):						
Students should be trained to design programmes in a specific programme language (programme language C).						
3. Course content/structure:						
An overview of programme languages. Basic and derived data types. Operations. Sequences. Selections. Cycles. Jumps. Modules. Files. Data structures: data structure definition, data structure classification, statistic structures (array, string), semi-dynamic structures (stack, line, deck, sequence), dynamic structures (lists, trees).						
4. Teaching methods:						
Lectures. Computer practice. Consultations. 70 out of 100 points are awarded during the lectures, and 30 points in theoretical part of the examination. In order to pass the examination, student must collect at least 55 points. Students who don't collect 25 points during the lectures (theoretical minimum) have to take written examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence			Yes	70.00	Theoretical part of the exam	Yes 30.00
Literature						
Ord.	Author		Title		Publisher	Year
1.	Kraus L.		Programski jezik C sa rešenim primerima		Mikro knjiga, Beograd	1994
2.	Malbaški D., Obradović D.		Osnovne strukture podataka		Univerzitet u Novom Sadu	1995

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Table 5.2 Course specification

Course:		English Language – Pre-Intermediate			
Course id: EJ02L					
Number of ECTS: 2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	0	0	0	
Precondition courses					
1. Educational goal:					
Broadening the knowledge of the English language: broadening the vocabulary related to everyday situations, adoption of basic prefixes and suffixes, compound words and collocations, broadening the use of tenses, adoption of complex sentence structures.					
2. Educational outcomes (acquired knowledge):					
Students are able to use spoken and written English in everyday situations using wider word fund and more complex sentence structures.					
3. Course content/structure:					
Word formation (prefixes, suffixes, compound words), some phrasal verbs, collocations. Broadening the use of tenses (Present Continuous, Present Perfect Simple and Continuous, Past Perfect, Past Continuous, future forms). Adoption of a larger number of irregular verbs. First and Second Conditional.					
4. Teaching methods:					
Communicative method is used, since objectives and contents of the course are aimed at communication, which is very complex. This method contributes to balanced development of all language skills. The emphasis is placed on the student activities during lectures and their interaction with the teacher and among themselves.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	John and Liz Soars	New Headway Pre-Intermediate		Oxford University Press, Oxford	2002
2,	John Eastwood	Oxford English Grammar Intermediate		Oxford University Press, Oxford	2006
3,	Grupa autora	Oxford English -Serbian Dictionary		Oxford University Press	2006

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Table 5.2 Course specification

Course:		Mathematical Analysis 2			
Course id:	E121				
Number of ECTS:	7				
Teachers:		Stojaković M. Mila, Kostić Z. Marko, Adžić Z. Nevenka			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
Ability of abstract thinking and acquiring basic knowledge in the field of mathematical analysis.					
2. Educational outcomes (acquired knowledge):					
Student is competent to design and solve mathematical models in the field of mathematical analysis (array theory, integral functions of several variables, complex analysis) in further education and professional courses.					
3. Course content/structure:					
Number series, function series, power series. Double and curvilinear integral. Complex analysis-basic terms related to complex function of a complex variable, integral, Cauchy's theorem and formula, Laurent series, singularities, residue, analytic continuation, conformal mapping.					
4. Teaching methods:					
Lectures; Numerical computing practice. Consultations. Lectures are combined. In lectures, theoretical part of the course taught is followed by typical examples for better understanding. In practice, which accompanies lectures, typical problems are solved and knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on a regular basis. Part of the course, presenting a logical whole, can be passed during the teaching process in the form of the following 3 modules (the first module: array, the second module: integral function of several variables, the third module: complex analysis). The oral part of the examination is not obligatory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 55.00
Test		Yes	30.00	Oral part of the exam	Yes 10.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Mila Stojaković,	Matematička analiza 2		Vedes, Beograd	2002
2,	Nebojša Ralević, Lidija Čomić	Zbirka zadataka rešenih sa pismenih ispita iz matematička analiza 2		FTN	2003

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Table 5.2 Course specification

Course:		Introduction to Electronics				
Course id:	E122					
Number of ECTS:	7					
Teacher:	Stojanović M. Goran					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	1	0	0		
Precondition courses						
1. Educational goal:						
Gaining basic knowledge in the filed of principles of analog-digital conversion, semiconductor electronic components (diodes, transistors, JFET, MOSFET) amplifiers.						
2. Educational outcomes (acquired knowledge):						
-ability to solve basic electric circuits with operational amplifiers						
-ability to solve basic electric circuits with semiconductor devices (diodes, bipolar transistors, MOSFET)						
-ability to record the static characteristics of semiconductor components						
-ability to analyze basic electronic circuits using computer-a software package SPICE						
3. Course content/structure:						
History of electronics. Classification of electronic signals, principles of their conversion. The frequent spectrum of electronic signals. Amplifiers (non-inverting and inverted amplifiers, differential amplifiers, application). Operational amplifiers. Basic physical properties of semiconductors (self and impurity semiconductors). Transport phenomena in semiconductors (current drift and diffusion currents). PN junction (direct and reverse polarization PN junction, the capacitance of PN junction, breakdown voltage). Diodes (basic concepts, the influence of temperature, breakdown, polarization, circuit analysis with diodes, switching mode). Diodes of reference voltage. Application of diodes (voltage control, unilateral and bilateral routers). Bipolar transistors (Polarization of the transistor, limits in operation, modes, equivalent circuit for small signals). The application of transistors (Transistor as a switch, inverted circuit with transistor). Field effect transistors. JFET. MOSFET integrated with induced channel (mode, modes, features). Polarization MOSFET. Equivalent circuit for small signals. MOSFET as a switch. Single stage amplifiers with bipolar transistors. Fet single stage amplifiers. Differential amplifiers with bipolar transistors or MOSFET. Analysis of electronic circuits using computer – SPICE.						
4. Teaching methods:						
Lectures; Auditory practice; Computer practice; Laboratory practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Laboratory exercise defence		Yes	20.00	Coloquium exam	No	45.00
Lecture attendance		Yes	5.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	M. Živanov	Elektronika, komponente i pojačavačka kola		FTN, Novi Sad		2001
2,	S. Tešić, D. Vasiljević	Osnovi elektronike		Grosknjiga, Beograd		1994
3,	R. Jaeger	Microelectronic Circuit Design		The McGraw-Hill Companies, Inc., New York		1997
4,	Dragan Pantić, Miomir Đukić	Izvori napajanja		Commerce print		1990
5,	M. Hribšek, M. Ilić, D. Vasiljević	Analogna elektronika - zbirka rešenih zadataka		Elektrotehnički fakultet, Beograd		1991

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Table 5.2 Course specification

Course:		System Control, Modeling and Simulation			
Course id:	E126				
Number of ECTS:	7				
Teachers:		Bekut D. Duško, Erdeljan M. Aleksandar			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses					
None					
1. Educational goal:					
Mastering theoretical and practical basics of system control, modeling and simulation.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge can be used in solving specific engineering problems, and also present a basis for further attendance of professional courses.					
3. Course content/structure:					
System modeling, Mathematical models, Application of Laplace transformation; Transmission function; Modeling in space state; State space analysis; Features and system performance; Stability analysis; Algebraic criteria; System control, PID controllers; Introduction to automatic control digital systems; Simulation systems and simulation languages (Matlab/Simulink); Computer simulation: models and analysis;					
4. Teaching methods:					
Examination is written and oral. Written part of the examination is eliminatory. Course grade is formed based on the success in homework assignments, laboratory and computer practice, written and oral part of the examination.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Oral part of the exam	Yes 30.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Latinka Čalasan, Menka Petkovska	MATLAB i dodatni moduli Control System Toolbox i SIMULINK		Mikro knjiga, Beograd	1995
2,	A. Erdeljan, D. Čapko	Štampani materijal koji pokriva predavanja i vežbe			2005
3,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna Knjiga, Beograd	2000
4,	B. Kovacević, Ž. Đurović	Sistemi automatskog upravljanja - zbornik rešenih zadataka		Nauka, Beograd	2000

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Table 5.2 Course specification

Course:		Signals and Systems					
Course id: EK201							
Number of ECTS: 7							
Teacher:		Trpovski V. Željien					
Course status:		Elective					
Number of active teaching classes (weekly)							
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:	
3		2	1	0		0	
Precondition courses		None					
1. Educational goal:							
Understanding the role of signals in modern communication systems, methods for signal analysis and processing and system analysis.							
2. Educational outcomes (acquired knowledge):							
Learning properties of signals, systems and procedures for their analysis and processing. Application of certain procedures for signal transmission and processing in modern communication systems.							
3. Course content/structure:							
Model of communication system. Information. The amount of information. Signal definition, types and properties. Signal analysis. Linear, non-linear and combined systems. Signal digitization. Sampling, quantization and coding. Analog and digital modulation.							
4. Teaching methods:							
Lectures, Computing practice and Laboratory practice.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points	
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory		Yes 70.00	
Homework		Yes	5.00				
Homework		Yes	5.00				
Lecture attendance		Yes	5.00				
Test		Yes	10.00				
Literature							
Ord.	Author	Title			Publisher		Year
1,	Željien Trpovski	Osnovi telekomunikacija			Katedra za telekomunikacije FTN Novi Sad		2004

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Table 5.2 Course specification

Course:		Electrical Circuit Theory				
Course id:	E128A					
Number of ECTS:	7					
Teachers:		Dautović B. Staniša, Novak O. Ladislav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	1	1	0	1		
Precondition courses						
None						
1. Educational goal:						
To provide general insight in fundamental aspects of electrical circuit theory including an overview of algorithms for linear, time-invariant RLC electrical circuit analysis in time and frequency domain.						
2. Educational outcomes (acquired knowledge):						
Students who successfully complete this course will gain insight in basic concepts of electrical circuit theory including: - understanding of general description of terminal behavior of electrical circuit elements with concentrated and distributed parameters and different ways of linking them - review of the qualitative properties of electrical circuits (Electrical circuit theorems) - Algorithms for the analysis of linear time-invariant RLC electrical circuits in the time and frequency domain.						
3. Course content/structure:						
Fundamental aspects of electrical circuits, description of terminal behavior of circuit elements, their classification and connection. Resistive circuits, Analysis of linear time-invariant resistive circuits. RLC circuit in time domain. Analysis of linear time-invariant RLC circuit in frequency domain. S-parameters. Theorem of electrical circuits. Circuits containing elments with distributed parameters.						
4. Teaching methods:						
Lectures; Auditory practice; Computer practice; Laboratory practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes	70.00
Exercise attendance		Yes	5.00	Coloquium exam	No	20.00
Lecture attendance		Yes	5.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	-	Teorija električnih kola I		Naučna knjiga	1991	
2,	-	Teorija električnih kola II		Naučna knjiga	1995	
3,	Dautović, Staniša	Računarske vežbe iz teorije električnih kola		Skripta	2007	
4,	Milić Mirko	Teorija električnih kola, zbirka rešenih problema		Naučna knjiga	1990	
5,	Nilsson, J.W., Reidel, S.A.	Electric Circuits		Prentice Hall	2001	
6,	Chua, L.O., Desoer, C.A., Kuh, E.S.	Linear and Nonlinear Circuits		McGraw-Hill Book Company	1987	
7,	Omar Wing	Classical Circuit Theory		Springer Verlag	2010	

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Table 5.2 Course specification

Course:		Probability, Statistics and Stochastic Processes			
Course id:	E135				
Number of ECTS:	7				
Teachers:		Grbić P. Tatjana, Stojaković M. Mila, Mihailović P. Biljana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Ability of abstract thinking and acquiring basic knowledge in the area of probability, statistics and stochastic processes.					
2. Educational outcomes (acquired knowledge):					
In their further education and professional subjects students are competent to develop and solve mathematical models in the area of probability, statistics and stochastic processes.					
3. Course content/structure:					
Basic definitions in probability, conditional probability and Bayes' formula. Random variable of discrete and continuous type, distribution functions. Two dimensional random variable. Conditional distribution. Numeric characteristics – expectation, dispersion, covariance, correlation. Conditional expectation. Limit theorems. Statistics – point estimate and interval estimate, parametric and nonparametric hypotheses and significance testing. Stochastic processes – general notions. Stochastic process transformation- derivative, integral. Poisson process, white noise, telegraph signal. Markov chains and processes, birth-death process, mass service systems. Stationary process. Mass service systems.					
4. Teaching methods:					
Lectures, Numerical calculation practice and computer practice (statistics). Consultations. Lectures are conducted combining theoretical part of the subject matter with characteristic examples which facilitate understanding. During practice classes, which accompany the lectures, some characteristic problem tasks are done and the presented material is discussed in more detail. In addition to the lecture and practice classes there are regular consultations. Parts of the course which form a logical unit can be taken during the course in the form of 4 partial exams based on the modules (module one: probability theory, module two: random variable, module three: statistics, module four: stochastic processes). The oral part of the final exam is not obligatory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 55.00
Test		Yes	30.00	Oral part of the exam	Yes 10.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Mila Stojaković	Slučajni procesi		Symbol, Novi Sad	200
2,	Tatjana Grbić, Ljubo Nedović	Zbirka rešenih zadataka sa pismenih ispita iz verovatnoće		FTN, Novi Sad	2002

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Table 5.2 Course specification

Course:		English Language - Intermediate			
Course id: EJ03Z					
Number of ECTS: 2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		0	0	0	0
Precondition courses					
1. Educational goal:					
Further improvement of English vocabulary through expansion of acquired vocabulary and adoption of more complex sentence structures adequate to the purpose and the situation in which the language is used. Expanding the vocabulary with terms that are not related only to the immediate surrounding. Developing the ability to express thoughts and feelings more precisely and clearly.					
2. Educational outcomes (acquired knowledge):					
Students are able to use language knowledge and skills in different life situations using adequate vocabulary and sentence structures. Students are able to adjust their style and register expression to some extent, depending on the situation. Students are able to read more complex texts and interpret and comment on ideas presented in them.					
3. Course content/structure:					
Vocabulary related not only to immediate surrounding, but a number of abstract terms. Text reproduction from various sources, written in a variety of styles and registers. Word formation related to the construction of abstract nouns, expressing the subject, construction of adverbs, the use of negative prefixes, etc. The use of Passive voice. The use of Conditional Sentences (First, Second and Third Conditional). Systematization of the use of tenses.					
4. Teaching methods:					
The emphasis is placed on the student activities during the class, their interaction with the teacher and between themselves. The communicative approach is used in the foreign language courses.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	John and Liz Soars	New Headway Intermediate(odabrana poglavlja)		Oxford University Press, Oxford	2000
2,	John Eastwood	Oxford English Grammar Intermediate		Oxford University Press, Oxford	2006
3,	Grupa autora	Oxford English - Serbian Dictionary		Oxford University Press, Oxford	2006

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Table 5.2 Course specification

Course:		Power Engineering Systems			
Course id: E129A					
Number of ECTS: 7					
Teacher:		Strezoski C. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	1	
Precondition courses		None			
1. Educational goal:					
Place of electricity in the power sector. The basic orientation in the power engineering (DC or AC, single phase or three-phase electrical energy, frequency and voltage). Structure and elements of power systems. The idea of reactive power and two-dimensional power balance.					
2. Educational outcomes (acquired knowledge):					
Basic knowledge about alternating three-phase electrical energy and power engineering systems (transmission, manufacturing and distributive networks).					
3. Course content/structure:					
Fundamentals of power. Fundamentals of power engineering: historical development, fundamentals of power engineering systems, three-phase power systems. Basic elements of power engineering systems: consumers, lines, transformers, alternating machines, distribution systems. Electric power balance: regulation of electric power systems, the setting and solution of power balance problems-problems of power flow.					
4. Teaching methods:					
Lectures; Auditory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Lecture attendance		Yes	5.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V.C.Strezoski:	Osnovi elektroenergetike		FTN, Novi Sad	1996

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Table 5.2 Course specification

Course:		Digital Electronics				
Course id:	E138A					
Number of ECTS:	7					
Teachers:	Nađ F. Laslo, Damnjanović S. Mirjana					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	1	0	0		
Precondition courses						
1. Educational goal:						
Acquiring knowledge in the field of digital electronics: the way of presentation of logical functions, minimization of logical functions and realization with basic logic circuits. The basic theoretical knowledge from Boolean algebra will be linked to practical aspects of analysis and realization of combination and sequential networks. The basic problems, causes of irregular operation and methods of their elimination will be studied.						
2. Educational outcomes (acquired knowledge):						
A student who successfully completes this course will be able:						
<ul style="list-style-type: none">- to successfully present logic functions in different ways;- to analyze work and carry out synthesis of simple combination and sequential digital networks;- to detect and eliminate basic hazardous phenomena in digital networks;- to successfully use basic digital functional blocks- to expand the capacity of basic digital functional blocks, if necessary, and- to do computer simulation of basic digital networks, after computer practice is done.						
3. Course content/structure:						
Introduction to digital signal processing. The methods of presentation of logical functions. Minimization of completely and incompletely defined logic functions. Realization of logic functions given the type of logic gates. Analysis of combinational networks, elimination of hazards. Latches and flip-flops. Analysis and synthesis of synchronous sequential networks (implemented through flip-flops). Analysis and synthesis of asynchronous sequential networks (implemented through latches or through feedback through combinational network). The basic combination and functional blocks (encoders, decoders, code converters, multiplexers, demultiplexers, combinational arithmetic-logic unit. Basic sequential functional blocks (registers, counters). The basics of programmable combinational and sequential components.						
4. Teaching methods:						
Lectures; Auditory Practice; Laboratory Practices; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Homework		Yes	5.00	Written part of the exam - tasks and theory	Yes	60.00
Homework		Yes	5.00	Coloquium exam	No	20.00
Laboratory exercise defence		Yes	30.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	L.Nađ, M.Damnjanović	Skripta iz digitalne elektronike		FTN, Novi Sad		2006
2,	M.Damnjanović, L.Nađ	Zbirka rešenih zadataka iz digitalne elektronike		FTN, Novi Sad		2007
3,	L.Nađ, M.Damnjanović	Praktikum za računarske i laboratorijske vežbe iz digitalne elektronike		FTN, Novi Sad		2007
4,	S.Tešić, D.Vasiljević	Osnovi elektronike, komponente, pojačavačka kola, impulsna kola, digitalna kola		Građevinska knjiga		2005
5,	D.Živković, M.Popović	Impulsna i digitalna elektronika (Glave 11 - 15)		Nauka i ETF Beograd		1992

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Table 5.2 Course specification

Course:		Laboratory practicum			
Course id:	EIPR1				
Number of ECTS:	6				
Teachers:		Mitrović Lj. Zoran, Pejić V. Dragan, Bojković J. Gordana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
1	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Acquisition of basic knowledge about the application, its significance and trends of further development of measurement systems. The acquisition of basic knowledge of the field of electrical measurement and instrumentation. The acquisition of basic knowledge and skills in laboratory and experimental work.					
2. Educational outcomes (acquired knowledge):					
Students should understand the application, the importance and trends of further development of measurement systems. Students should understand the fundamentals and the importance of the electrical measurement and instrumentation. Students will learn to work in the lab. Gaining basic knowledge of the experimental work. Knowledge gained should be used by students during their education.					
3. Course content/structure:					
The application of measurement systems in the power and energy sector. The application of measurement systems in the industry. The application of measurement systems in biomedicine and biotechnology. The application of measurement systems in environmental protection. The application of measurement systems in agriculture. Measurement systems as interdisciplinary connection between electrical engineering and computer science. The implementation of modern technology achievements in measuring systems. Measurement, Metrology, Quantities and units, systems and units, SI. Standards and common instruments. Measuring Sources: Sources of direct current / voltage, sources of AC current / voltage, variable transformers, function generators, frequency synthesizers, calibrators. Analog instruments: ammeters / voltmeters, universal instruments, wattmeters, oscilloscopes. Digital instruments: counter / timer / frequency meters, multimeters, oscilloscopes. Sensors and transducers. Auxiliary equipment: rheostats, potentiometers, decade boxes of resistance, capacitance and inductance. Virtual instruments. Distant laboratories.					
4. Teaching methods:					
Lectures, laboratory practice, consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 40.00
				Oral part of the exam	Yes 30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Zoran Mitrović, Marjan Urekar	Laboratorijski praktikum iz električnih merenja		FTN Novi Sad	2009
2,	Zoran Mitrović	Sajt predmeta sa pripremama za laboratorijske vežbe i ostalim aktuelnim informacijama		FTN Novi Sad	2012

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Table 5.2 Course specification

Course:		Development Tools for Communications and Signal Processing 2				
Course id: EK200						
Number of ECTS: 7						
Teacher:		Vukobratović V. Dejan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses		None				
1. Educational goal:						
Introduction to object-oriented design principles and standard languages for designing and specifying telecommunications systems. The course will begin with an overview of basic concepts, structures and syntax and shows how to specify protocols with object-oriented description languages (SDL).						
2. Educational outcomes (acquired knowledge):						
The student is given practical knowledge of object-oriented design principles and the definition and specification of communication protocols within an object-oriented language for the description of the system (SDL language).						
3. Course content/structure:						
Introduction, object model, classes and objects, classification. Class diagrams, objects, state transitions. Processes and management. Application of object-oriented design. Specification of communication protocols using formal or graphical notation. Description of syntax and semantics through standard SDL(Specification and Description Language).Communication systems description in SDL. SDL structure, data types, abstract data types, communication paths. Examples of communication protocols in SDL.						
4. Teaching methods:						
Lectures and lab exercises.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	50.00	Practical part of the exam - tasks	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Jon Elsberger, Dieter Hogrefe, Amardeo Sarma		SDL: Formal Object-Oriented Language for Communicating Systems		Prentice Hall	1997
2,	Grady Booch		Object-Oriented Analysis and Design with Applications		The Benjamin-Cummings Publishing	1994

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Table 5.2 Course specification

Course:		Practicum in electronics engineering tools			
Course id:	E139A				
Number of ECTS:	2				
Teachers:					
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	1	0	1	
Precondition courses		None			
1. Educational goal:					
Introducing students to specific application of modern software packages in electronics.					
2. Educational outcomes (acquired knowledge):					
- students' ability to independently design a PCB of one simple electronic circuit in the programming environment.					
- the ability to analyze simple electronic circuit using the software package MCap7					
- the ability to simulate analog and digital electronic circuits using the modern software packages SPICE, MCap7.					
3. Course content/structure:					
Introduction to Protel software package. Doing a project assignment in this software package. Introduction to Windows oriented SPICE programme MCap version 7. Application of MCap7 in the simple analog circuits, such as inverting, non-inverting amplifiers based on the OP. Determining different forms of offsets of OP and the methods for determining their values. Determining the voltage gain of linear circuits with OP (inverting and non-inverting configuration). Operation analysis of amplifiers with a common emitter. Determining the input and output resistance. Determining the voltage gain with transmissive properties, from the results of transient analysis and based on the results of AC analysis. Determining the limits of the field of linear work with transmissive properties based on the results of transient analysis. Understanding the MCap7a during simulation of digital circuits. The basic elements of digital simulation (fixed digital value, the signal generator and how it is programmed, the results and their control, etc.)					
4. Teaching methods:					
Computer Practice. Laboratory Practice. Consultations. Smaller independent project.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Practical part of the exam - tasks	Yes 50.00
Laboratory exercise defence		Yes	45.00		
Literature					
Ord.	Author	Title		Publisher	Year
1.	Mirjana Videnović-Mišić	Praktikum za inženjerske alate u elektronici (skripta)		FTN, Novi Sad	2007

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Table 5.2 Course specification

Course:		Electrical Circuit Theory			
Course id:	E128F				
Number of ECTS:	7				
Teachers:		Dautović B. Staniša, Novak O. Ladislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses					
None					
1. Educational goal:					
To provide general insight in fundamental aspects of electrical circuit theory including an overview of algorithms for linear, time-invariant RLC electrical circuit analysis in time and frequency domain.					
2. Educational outcomes (acquired knowledge):					
Students who successfully complete this course will gain insight in basic concepts of electrical circuit theory including:					
- understanding of general description of terminal behavior of electrical circuit elements with concentrated and distributed parameters and different ways of linking them					
- review of the qualitative properties of electrical circuits (Electrical circuit theorems)					
- Algorithms for the analysis of linear time-invariant RLC electrical circuits in the time and frequency domain.					
3. Course content/structure:					
Fundamental aspects of electrical circuits, description of terminal behavior of circuit elements, their classification and connection. Resistive circuits, Analysis of linear time-invariant resistive circuits. RLC circuit in time domain. Analysis of linear time-invariant RLC circuit in the stiff sinusoidal and frequency domain. Theorem of electrical circuits. Circuits with distributed parameters.					
4. Teaching methods:					
Lectures; Auditory practice; Computer practice; Laboratory practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes 70.00
Exercise attendance		Yes	5.00	Coloquium exam	No 20.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	-	Teorija električnih kola I		Naučna knjiga	1991
2,	-	Teorija električnih kola II		Naučna knjiga	1995
3,	Dautović, Staniša	Računarske vežbe iz teorije električnih kola		Skripta	2007
4,	Milić Mirko	Teorija električnih kola, zbirka rešenih problema		Naučna knjiga	1990
5,	Nilsson, J.W., Reidel, S.A.	Electric Circuits		Prentice Hall	2001
6,	Chua, L.O., Desoer, C.A., Kuh, E.S.	Linear and Nonlinear Circuits		McGraw-Hill Book Company	1987

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Table 5.2 Course specification

Course:		Selected Chapters in Mathematics			
Course id: EE204					
Number of ECTS: 7					
Teachers:		Kovačević M. Ilija, Teofanov Đ. Ljiljana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
3		2	1	0	0
Precondition courses		None			
1. Educational goal:					
Ability of abstract thinking and acquiring basic knowledge in Laplace transform and its applications, application of differential calculus function of several variables, Numerical mathematics. Integration of function of several variables and field theory. Fourier transform and Fourier series.					
2. Educational outcomes (acquired knowledge):					
In their further education students are competent to develop and solve mathematical models in their professional subjects using the acquired knowledge from Discrete Algebra and Mathematical Analysis.					
3. Course content/structure:					
Theoretical part: Application of differential calculus of functions of several variables. Laplace transform. Power series solution of differential equations. Numerical solutions to differential equations. Numerical integration and some numerical methods for solving differential equations. Triple and surface integrals. Integral formulas: Stokes and Gauss-Ostrogradski formula . Vector analysis (field theory). Fourier series, integrals and Fourier transform. Practical part: In practical classes suitable examples from theoretical part of the course are done thus contributing to better understanding of the material.					
4. Teaching methods:					
Lectures, Numerical calculation practice and computer practice. Consultations. Lectures are conducted combining theoretical part of the subject matter with characteristic examples which facilitate understanding. During practice classes, which accompany the lectures, some characteristic problem tasks are done and the presented material is discussed in more detail. In addition to the lecture and practice classes there are regular consultations. Parts of the course which form a logical unit can be taken in the form of 3 partial exams during the term based on the modules (module one: Laplace transform-part one, extreme values of functions of several variables; Fourier series and integrals, power series solution of differential equations ; module two: triple and surface integrals, field theory ; module three: numerical analysis, Fourier and Laplace transform).					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	15.00	Final exam - part one	No 50.00
Exercise attendance		Yes	3.00	Final exam - part two	No 50.00
Lecture attendance		Yes	2.00	Written part of the exam - tasks and theory	Yes 50.00
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	N. Ralević, S.Medić	Matematika 1 - drugi deo		FTN, Novi Sad	2002
2,	I.Kovačević,N.Ralević,V.Čurić ,V.Marić	Integrali funkcija više promenljivih i teorija polja		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
3,	M.Stojaković	Matematička analiza 2		Symbol Novi Sad	2007

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Table 5.2 Course specification

Course:		Object-Oriented Programming				
Course id: E131						
Number of ECTS: 7						
Teachers:		Kupusinac D. Aleksandar, Malbaški T. Dušan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		3	0		0	0
Precondition courses			None			
1. Educational goal:						
Introducing students to the principles, techniques and ways of use of the object methodology and technology for software design.						
2. Educational outcomes (acquired knowledge):						
Students should be trained to use object approach for direct programme design in the specific object programme language.						
3. Course content/structure:						
Problem domain, model, implementation. Basic concepts and terms. Abstraction and hiding the information. Implementation of the class. Operation classification. Constructors and destructors. A concept and types of polymorphism. Operator overloading. Association. Aggregation. Inheritance. Links on usage. Generic class. Managing exceptions.						
4. Teaching methods:						
Lectures. Computer Practice. Consultations. 70/100 points can be awarded during the class, and 30 in the theoretical part of the examination. The examination prerequisites include two little projects (15 points each) and four test (10 points each) which totals 70 points. In order to pass the course, a student must collect at least 55 points. Students who don't collect 25 points during the lectures (which is a theoretical minimum) have to take the written examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Computer exercise defence			Yes	70.00	Theoretical part of the exam	Yes 30.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Kraus L.		Programski jezik C++		Mikro knjiga, Beograd	1994
2,	Malbaški D.		Objekti i objektno programiranje		Univerzitet u Novom Sadu	1998

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Table 5.2 Course specification

Course:		Measuring Instruments				
Course id:	E142					
Number of ECTS:	8					
Teachers:		Mitrović Lj. Zoran, Župunski Ž. Ivan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		0	3	0		0
Precondition courses						
None						
1. Educational goal:						
Acquiring knowledge on the architecture of the measuring instruments. Enabling students to properly use measuring instruments, while being introduced to the measuring methods and application and limitations.						
2. Educational outcomes (acquired knowledge):						
Students are able to use measuring instruments properly. Introduction to the operation of the measuring instruments and measuring methods. Introduction to the application range and limitations. Introduction to the architecture of the measuring instruments.						
3. Course content/structure:						
Architecture of the analog measuring instruments. Application of operational amplifiers in the measuring instruments. Introduction to the architecture of the processors and computers used in the measuring instruments. Architecture of the A/D converters. Digital elements of the measuring instruments. Practical application of the acquired knowledge.						
4. Teaching methods:						
Lecture. Laboratory Practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence			Yes	30.00	Written part of the exam - tasks and theory	Yes 40.00
					Coloquium exam	No 20.00
					Coloquium exam	No 20.00
					Oral part of the exam	Yes 30.00
Literature						
Ord.	Author	Title			Publisher	Year
1.	Zoran Mitrović	Merni instrumenti			FTN Novi Sad	2012
2.	Zoran Mitrović	Merni instrumenti - praktikum			FTN Novi Sad	2012

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Table 5.2 Course specification

Course:		Modelling and Simulation of Communication Systems				
Course id:	EK203					
Number of ECTS:	7					
Teacher:		Vukobratović V. Dejan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	2		0	0
Precondition courses		None				
1. Educational goal:						
Acquisition of basic knowledge about the communication systems: basic blocks and their roles on the transmit side, the basic characteristics of the channel and the basic blocks and their characteristics on the receiving side. Students should gain knowledge about the operation of each block of a typical communication system and the ability to provide basic implementation of each of the blocks in MATLAB. In addition, the student should gain a global picture of the sequence of processing performed by each of the blocks and the ability to implement a complete communication chain for the realization of basic communication systems in MATLAB and interpret the results.						
2. Educational outcomes (acquired knowledge):						
Students who successfully master the material in this course will be able to: - Identify and explain the basic blocks of the communication system on the side of the transmitter and the receiver and describe their main features - Implement a basic implementation of each of the communication units using MATLAB's Communications Toolbox and set its basic parameters - Implement a complete simulation chain of the basic realization of the communication system in MATLAB and adjusts and adapts to the basic parameters of the basic blocks within a complex system - Present and interpret the results of a simulation of communication systems in MATLAB						
3. Course content/structure:						
Getting to know your subject. Introduction to MATLAB. Short repetition of basic concepts in MATLAB: script files, functions, vectors and matrices, useful built-in functions. An intuitive introduction to signals in communication: information-carrying signal as analog and digital signals, the signals in the baseband and modulated signals, signal strength, signal spectrum, spectrum efficiency. Signal generation in MATLAB. An intuitive introduction to communication channels, transmission media: wired and wireless transmission channel noise, the basic channel models: a channel with Gaussian noise, the signal-noise ratio in the channel. More advanced models of communication channels, and their parameters. Generating channel model in MATLAB. The basic model of the communication system. Description and sequence of individual blocks at sender and receiver side. Implementation of the basic model of the communication system in MATLAB. Methods of calculating the probability of errors in transmission, the bit error probability and the probability of error messages through simulation experiments. The signal source. Fundamentals of signal compression. Algorithms for quantization and signal compression in MATLAB. Basic principles and implementation of protective coding information. Protective coding algorithms in MATLAB. Basic principles and implementation of codes for fault detection. CRC coding algorithms in MATLAB. Basic principles of digital modulation. Examples of modulation scheme and implementation in MATLAB. Basic principles of design communication receivers. Equalization procedure. Examples of implementation of the equalizer in MATLAB. Basic principles simulations of the complete communication system. Examples of implementation of basic communication systems in MATLAB. Execution of simulation experiments and display in MATLAB.						
4. Teaching methods:						
Lectures, lab exercise.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	30.00	Practical part of the exam - tasks	Yes 70.00
Literature						
Ord.	Author		Title			Publisher Year
1,	John Proakis, Masoud Salehi, Gerhard Bauch		Contemporary Communication Systems using MATLAB			Cengage 2012

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Table 5.2 Course specification

Course:		Power Converters			
Course id: E133					
Number of ECTS: 7					
Teachers:		Marčetić P. Darko, Vasić V. Veran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
3		1	2	0	0
Precondition courses		None			
1. Educational goal:					
Acquiring the basic knowledge in the field of electromechanical energy conversion, electric machines, power electronic devices and electrical drives.					
2. Educational outcomes (acquired knowledge):					
<div>- understanding the basic principles of electromechanical conversion of energy</div> <div>- understanding the basic features and ways of operation of rotating machines</div> <div>- understanding the basic features and ways of operation of static electric machines – transformers</div> <div>- understanding the basic features and ways of operation of the power electronic devices and their application</div> <div>- understanding the basics of electrical drives</div>					
3. Course content/structure:					
The basic principles of electromechanical energy conversion. Power balance of electric machines. Types of rotating machines. Alternating machines. Tesla's rotating field. Asynchronous machines. Synchronous machines. Direct current machines. Static electric machines – transformers. Other electric machines. Little and micro-motors. Power electronic devices. Fundamentals of electrical drives.					
4. Teaching methods:					
A course is taught through lectures and practice. In lectures, modern illustrations for intuitive understanding of the taught matter are used. In order to fully master the course matter, students solve problems in auditory practice, which accompanies lectures, thus enabling students to independently solve problems from the engineering practice. A part of the practice is carried out in the laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	20.00	Written part of the exam - tasks and theory	Yes 30.00
Exercise attendance		Yes	5.00	Coloquium exam	Yes 20.00
Lecture attendance		Yes	5.00	Coloquium exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Emil Levi, Vladan Vučković, Vladimir Strezoski	Osnovi Elektroenergetike		STYLOS, Novi Sad	2004
2,	A. E. Fitzgerald, Charles Kingslv	Električne mašine		Naučna knjiga, Beograd	1962

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Table 5.2 Course specification

Course:		Introduction to Microcomputer Electronics			
Course id: E136					
Number of ECTS: 7					
Teachers:		Malbaša D. Veljko, Mezei D. Ivan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses					
1. Educational goal:					
Enabling students to design and simulate simple digital electronic systems using a chosen hardware description language (HDL). Enabling students to understand functional units, structure, operation principles and design of simple microcomputer systems.					
2. Educational outcomes (acquired knowledge):					
A student who successfully completes this course will be able:					
- to design, simulate and implement simple combination and sequential networks on a programmable digital electronic circuit by using a chosen hardware description language (HDL).					
- to design, write a source programme, test and run a programme in the symbolic machine language on a given microcomputer system					
- to design a structure of a simple microcomputer system based on the given specifications					
- to make a specification of a personal computer based on the given applications					
3. Course content/structure:					
Complex digital systems. Design and simulation of digital systems using the hardware description language (HDL). Structure and design of simple microprocessors and microcomputers. Programming in the symbolic machine language.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Final exam - part one	Yes 25.00
Laboratory exercise defence		Yes	40.00	Final exam - part two	Yes 25.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Veljko Malbaša	Uvod u digitalnu i mikroračunarsku elektroniku		prva verzija rukopisa skripte	2006

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Table 5.2 Course specification

Course:		Communication networks - introduction			
Course id:	EK202				
Number of ECTS:	7				
Teachers:		Bajić D. Dragana, Lončar-Turukalo G. Tatjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Basic knowledge related to the communication and computer networks. Connections in network surrounding. Students should acquire the basic function of network connections and layered function distribution.					
2. Educational outcomes (acquired knowledge):					
Students would acquire the basic principles of communication networks. It is intended to clarify the fundamental problems at network layers. The subject is organized as a sequel of engineering problems that should be solved at the various levels of communication link. An engineering compromise would be explained, as a solution that satisfy both the final user, and the requirements considering the available resources.					
3. Course content/structure:					
Introduction (plan, pre-exam, exam, literature); Network transmission fundamentals - message, packet, session, exchange; Classical networks, frame, synchronous transmission and transport systems. Computer networks, types; Layer structures - advantages and disadvantages. PHY level - medium, line codes. Modem. MATLAB example. Data link layer - error detection and ARQ procedures; MATLAB example. Multiple access. Collision-detection, random access, carrier sensing, tree, compromised algorithms. MATLAB example. Network layer and path finding. MATLAB example. QoS. Transport layer, session, presentation and application. Security problems. MATLAB example.					
4. Teaching methods:					
Lessons; practical work and laboratory work with matlab examples.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	20.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	A. Tanenbaum	Computer Networks		4th Edition, Prentice Hall	2003
2,	Bertsekas, Gallager	Data Networks		2nd edition, Prentice Hall	1997
3,	Predmetni nastavnici	Skripte i prezentacije na sajtu Katedre		KTIOS	2012
4,	Endru S. Tanenbaum	Računarske mreže, prevod četvrtog izdanja (Tanenbaum)		Mikroknjiga, ISBN: 86-7555-265-3	2005
5,	Stanislav Matić	Principi komutacije u telekomunikacijama		Javno preduzeće PTT saobraćaja "Srbija"	1993

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Table 5.2 Course specification

Course:		Electrical Measurements			
Course id:	E130A				
Number of ECTS:	7				
Teachers:	Pejić V. Dragan, Župunski Ž. Ivan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	4	0	0	
Precondition courses					
None					
1. Educational goal:					
Acquiring knowledge in the field of electrical measurements.					
2. Educational outcomes (acquired knowledge):					
Acquiring experience in the laboratory practice. Training in the field of measurement results processing. Mastering the principles of the measurement instruments operation. Studying the measuring methods.					
3. Course content/structure:					
Measuring instrument. Analog measuring instruments. An instrument with the movable coil. Extension of the instrument's measuring field with movable coil. An instrument with movable iron. Electrodynamics instrument. Extension of the measuring range of the voltmeter and ammeter. Electrical measuring instruments. Digital measuring instruments. Counter Time. Counting. Frequency measuring. Measuring the period. Measuring the phase difference. DA converters. Function generators. AD converters. Method of voltage compensation. Method of voltage conversion into frequency. Method of double slope. Sigma delta method. Oscilloscopes. Time base. Trigger time base. X-Y mode. Multichannel oscilloscopes. Digital oscilloscopes. Measuring transformers. Measuring voltage transformers. Current measuring transformers. Electricity meters. Induction meter of electricity. Electronic meter of electricity. Sampling timer. Measuring bridges. DC measuring bridges. Wheatstone bridge. Kelvin bridge. Alternating measuring bridges. Unbalanced measuring bridges. Measuring bridges with more sources. Measuring compensators. DC measuring compensators. Alternating measuring compensators. General characteristics of measuring instruments. Static property. Sensitivity. Linearity. Resolution. Measuring range. Scale/watch hand/ Display. Input/Output Impedance. Accuracy. Stability. Normal/Limiting/Referent conditions. Tags. Dynamic properties. Measuring of electrical quantities. Measuring nonelectrical quantities. Measuring insecurity. Measuring errors. Rough mistakes. Systematic mistakes. Random mistakes. Measuring uncertainty. Standard measuring uncertainty. Type "A". Type "B". Combined measuring uncertainty. Extended measuring uncertainty. Measuring information. Quality of the measuring information.					
4. Teaching methods:					
Lectures. Laboratory Practice. Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 50.00
Oral part of the exam				Yes	20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	I. Bagarić	Metrologija električnih veličina merenja i merni instrumenti		Nauka Beograd	1996
2,	Robert A. Witte	Electronic Test Instruments Theory and Applications		PTR Prentice Hall	1993

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Table 5.2 Course specification

Course:		Basics of Telecommunications				
Course id: E137						
Number of ECTS: 6						
Teachers:		Crnojević S. Vladimir, Milošević S. Vladimir, Sečujski S. Milan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	1		0	1
Precondition courses		None				
1. Educational goal:						
Mastering the basic knowledge related to the methods of analysis and transmission of analog and digital signals.						
2. Educational outcomes (acquired knowledge):						
Theoretical knowledge on analog and digital telecommunications, practice in the laboratory and introduction to the practical communication systems.						
3. Course content/structure:						
Systematization of telecommunication signals. Analysis of analog signals. Transmission of signals through linear systems. Analog modulations. Impulse modulations. Selection, quantification and encoding of analog signals; IKM. Analysis of statistic properties of digital signals. Processing digital signals: scrambling, linear and non-linear in-line coding. Transmission of digital signal in a basic frequency range (noise, inter-symbol interference, the probability of error), digital modulation. Synchronization. An overview of modern communication systems.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory		Yes 70.00
					Coloquium exam	No 40.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	I. S. Stojanović		Osnovi telekomunikacija		Građevinska knjiga, Beograd	1977
2,	Ž.Trpovski, V.Milošević, M.Temerinac		Osnovi telekomunikacija		Skripta, FTN, Novi Sad	2002
3,	G. Lukatela, D. Drajić, G. Petrović, R. Petrović		Digitalne telekomunikacije		Građevinska knjiga, Beograd	1984
4,	V. Milošević, V. Delić, M.Narandžić, Č. Stefanović		Digitalne telekomunikacije - skripta		FTN u saradnji sa WUS Austria, Novi Sad	2005
5,	V.Milošević, V.Delić		Digitalne telekomunikacije		FTN, Novi Sad	1996

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Table 5.2 Course specification

Course:		Digital Signal Processing			
Course id:	EK314				
Number of ECTS:	7				
Teacher:	Sečujski S. Milan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	1	0	0	
Precondition courses					
1. Educational goal:					
As an introductory course in the series of course related to digital processing of certain types of signals, this course has an educational objective to offers students fundamental knowledge about digital processing and its application. The objective is to introduce students to digital signals and systems for their processing after they learned about analog signals. It is necessary to know digital signals in the frequency domain, digital filters and methods of their design.					
2. Educational outcomes (acquired knowledge):					
In the lectures students are introduced to the basic algorithms of the signal processing in the discrete time and to the most important transforms of discrete signals. The central part of the course is the Fourier transform. Digital filters are introduced through specific examples, and then the basic scientific methods for their design while using adequate software tools are learnt. Based on the gained knowledge, students are able to analyze the given problem, choose adequate class of digital filter and the design method, design and implement the digital filter. In the practice students gain practical experience with Matlab DSP Toolbox. They are able to evaluate and calculate basic parameters of the digital filter. They are able to identify and qualify potential problems in implementation of digital filters and to find the solution.					
3. Course content/structure:					
Practical aspects of A/D and D/A conversion and the sampling theorem. Transform of discrete signals and connections between them (ZT, FTD, DFT). Fast FT and fast convulsion. Examples of digital FIR and IIR filter and their characteristics. Basic methods of the digital filter design (while getting introduced to the Matlab DSP Toolbox).					
4. Teaching methods:					
The entire course of lectures (3 hours per week) is continually followed by synchronized auditory and computer practice (1 hour each). Lectures are carried out by the professor using the PowerPoint presentation available to the students in the .pdf format. Presentations with animations illustrate critical details in the lectures. In the auditory practice problems of spectral analysis of digital signals and the design of digital filters are solved. The entire course is followed by the Practice in the computer center of the Faculty of Technical Sciences, where students gain practical experience working with software tools for digital signal processing. Practice preparation and Homework Assignments are done through the Web portal of the Department using the specially designed on-line exercises. Acquired theoretical knowledge is tested during the semester in the form of tests (colloquiums), while the practical work is verified through short project and homework assignments. Those are all e					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Milan Sečujski, Vlado Delić, Nikša Jakovljević, Igor Radić	"Zbirka zadataka iz digitalne obrade signala"		FTN, Novi Sad	2007
2,	Ljiljana Milić i D. Dobrosavljević	"Uvod u digitalnu obradu signala"		ETF, Beograd	1995
3,	Vlado Delić i dr.	PPT prezentacije sa predavanja i on-line vežbe preko Web portala Katedre za telekomunikacije i obradu signala			2007

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Table 5.2 Course specification

Course:		Introduction to Digital and Microcomputer Electronics			
Course id:	E136d				
Number of ECTS:	7				
Teacher:		Malbaša D. Veljko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses					
1. Educational goal:					
The course objective is to enable students to design and simulate simple digital electronic systems and functional units of microprocessors and understanding of structure, operation principle, specifications and design of simple microcomputer systems.					
2. Educational outcomes (acquired knowledge):					
A student who successfully completes this course will be able:					
- to design and simulate simple combination and sequential networks					
- to design, write a source program, test and run the program in the symbolic machine language on a given microcomputer system					
- to design a structure of a simple microcomputer system based on the given specifications					
- to make a specification of a personal computer based on the given applications					
3. Course content/structure:					
Boolean algebra. Numerical systems. Logic circuits. Standard combinational logic networks: a comparator, multiplexer, demux, encoder, decoder, adder. Standard sequential logic networks: flip-flops, memories, counters, registers. Complex digital systems. The structure of the simple microprocessors and microcomputers. Programming in the symbolic machine language.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Final exam - part one	Yes 25.00
Laboratory exercise defence		Yes	40.00	Final exam - part two	Yes 25.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Malbaša	Uvod u digitalnu i mikroračunarsku elektroniku		Prva verzija rukopisa skripte	2005

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Table 5.2 Course specification

Course:		Measuring in Electronics			
Course id: E140					
Number of ECTS: 4					
Teacher:		Župunski Ž. Ivan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge in the field of electrical measuring.					
2. Educational outcomes (acquired knowledge):					
Acquiring experience in the laboratory practice. Training in the field of measuring results processing. Mastering the operation principles of the measuring instruments. Studying the measurement methods.					
3. Course content/structure:					
Measuring instruments. Analog measuring instruments: An instrument with a moving coil. Extending the measuring instrument range by the moving coil. An instrument with a movable iron. Electrodynamic instrument. Extending the voltmeter and ampere meter measuring range. Electronic measuring instruments. Digital measuring instruments: Counting, Measuring frequency, Measuring time, Measuring the phase shift. Counter Timer. DA converters. Function generators. AD converters. The method of voltage compensation, the method of converting voltage to frequency, the method of double slope, Sigma-Delta method. Digital multimeters. Oscilloscopes: Time base, Trigger time base, XY mode. Multi-channel oscilloscopes. Digital oscilloscopes. Measuring bridges: DC measuring bridges. Wheatstone bridge, Kelvin bridge. AC measuring bridge. Unbalanced measuring bridges. Measuring bridges with multiple sources. Measuring compensators: DC measuring compensators. Alternating measuring compensators. Measurement of electrical quantities. Measuring the resistance/impedance, Inductance measurement/mutual inductance, Measuring capacitance, Measuring electric power. Measurement uncertainty. Measurement error: a rough mistake, systematic error, random errors. Measurement uncertainty: The standard measurement uncertainty, Type "A", Type "B". Combined measurement uncertainty, Expanded measurement uncertainty.					
4. Teaching methods:					
Lectures. Laboratory Practice. Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 40.00
Oral part of the exam				Yes	30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Bego	Mjerenja u elektrotehnici		Tehnička knjiga, Zagreb	1999

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Table 5.2 Course specification

Course:		English Language – Upper Intermediate			
Course id:	EJ04L				
Number of ECTS:	2				
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	0	0	0	
Precondition courses					
1. Educational goal:					
Further improvement of language skills. Developing strategies for better understanding of the written text and skills of written expression. Recognition and use of the formal and informal style of communication, as well as other forms of written expression. Developing presentation skills, expressing agreement and disagreement. Expanding vocabulary and adopting structures with gerunds and infinitives and indirect speech.					
2. Educational outcomes (acquired knowledge):					
Students are able to read more complex texts using helpful reading strategies. They are able to express themselves in the written form using adequate style. They are able to orally present their ideas and express their agreement or disagreement with someone else's ideas with some extent of certainty.					
3. Course content/structure:					
Strategies for understanding texts in the foreign language. The use of text organizer. The use of the formal and informal style and the choice of adequate register. Expanding the vocabulary related to the topics such as education, work, new technologies and discoveries, life in the future etc. Indirect speech. The use of gerund and infinitive.					
4. Teaching methods:					
The emphasis is placed on the student activities during class, their interactions with the teacher and between themselves. The communicative method is used in the foreign language lectures.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Michael Vince	Intermediate English Practice		Macmillan, London	2000
2,	M. Harris, D. Mower, A. Sikorzynska	Opportunities Intermediate		Longman, London	2005
3,	Grupa autora	Oxford English - Serbian Dictionary		Oxford University Press, Oxford	2006
4,	John and Liz Soars	New English Headway Intermediate (odabrana poglavlja)		OUP	2000

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Table 5.2 Course specification

Course:		Systems and Signals			
Course id: e141					
Number of ECTS: 4					
Teacher:		Novak O. Ladislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	1	0	0	
Precondition courses					
1. Educational goal:					
Providing a general overview of fundamental aspects of the theory of signals and systems including algorithms for the analysis of linear time invariant systems in the time and complex domain.					
2. Educational outcomes (acquired knowledge):					
A student who successfully completes this course will gain an insight of the basic concepts of the theory of signals and systems in continuous time which includes:					
- manipulation with regular and singular signals with continuous time					
- understanding the general description of the system, and their classification and qualitative properties					
- an overview of algorithms for the analysis of linear time invariant systems in the time and complex domain and the concept of analog filtering.					
3. Course content/structure:					
Fundamental aspects of the theory of signals, the concept of time axis and the concept of signals. Singular and regular signals with continuous time and operations with them. Bilateral Laplace transformation, Unilateral Laplace transformation, Fourier transformation. Fundamental aspects of the systems theory, a description of terminal behavior of the system elements, their classification and connection. Linear time-invariant systems: an analysis in the time domain and stability. Analysis of linear time-invariant systems using unilateral Laplace transformation and Fourier transformation. The concept of filtering, introduction to classification and filter synthesis.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 50.00
Lecture attendance		Yes	5.00	Coloquium exam	Yes 20.00
Test		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	L. Novak	Sistemi i signali - skripta		FTN Novi Sad	2005
2,	S. Dautović, R. Struharik	Laboratorijske vežbe iz signala i sistema - skripta		FTN Novi Sad	2005
3.	Mrinal Mandal, Amir Asif	Continuous and Discrete Time Signals and Systems		Cambridge University Press	2007

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Table 5.2 Course specification

Course:		Operations Research			
Course id: E145					
Number of ECTS: 7					
Teacher:		Pantović B. Jovanka			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The main objective is to develop the ability for setting the mathematics models of realistic problems, introduction to some methods of their solving and introduction to the possibilities of their application in engineering problems.					
2. Educational outcomes (acquired knowledge):					
Theoretical knowledge in the field of the stated course contents. Skills in setting the mathematics models and knowledge of algorithms for their solving.					
3. Course content/structure:					
Linear programming. Simplex algorithm. Simplex algorithm efficiency. The theory of duality. Sensitivity analysis to parameter change. Integer programming. "Branch and bound" method. Networks. Covering trees. Problems of network traffic. Application: transportation problem, the problem of the shortest path in the network, the problem of maximum flow. Game theory. Matrix games. Topics of student's choice.					
4. Teaching methods:					
In the lectures theoretical part of the course is followed by typical examples in order to better understand the matter taught. In the practice, which accompanies lectures, typical problems are solved and the knowledge taught in lectures is deepened. Besides lectures and practice, consultations are held on a regular basis. The knowledge testing is written and oral through the term paper, 3 colloquiums, written and oral part of the examination. Course grade is formed based on the success in the term paper, colloquium, written and oral part of the examination.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Theoretical part of the exam	Yes 10.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 20.00
Term paper		Yes	20.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Robert Vanderbei	Linear Programming: Foundations and Extensions		Princeton University, USA	2006
2,	Petrić, J., Kojić, Z., Šarenac, L.,	Zbirka zadataka iz operacionih istraživanja		Nauka, Beograd	2003
3,	Jovan Petrić	Operaciona istraživanja		Naučna knjiga, Beograd	1987

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Table 5.2 Course specification

Course:		Algorithms and Data structures			
Course id:	SE0008				
Number of ECTS:	8				
Teacher:	Milanović N. Nikola				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Introduce students to concepts of in-memory data structures and their use in program development.					
2. Educational outcomes (acquired knowledge):					
Upon successful course completion, student is familiar with abstract data types and capable of handling linear data structures - arrays, sets, maps, lists, stacks, queues; Student is also familiar with basic concepts of program efficiency analysis; Student is capable of using search and sort methods on data structures; Student understands the concept of recursion and its use in program development; Student understands and use hash tables as well as tree structures.					
3. Course content/structure:					
Abstract data types: concept of abstract data type; new type definition. Arrays: concept of an array, operations on arrays, efficiency analysis for operations on arrays, matrix, operations on matrices. Sets and maps: concept of data set, set implementation, concept of map, map implementation, multidimensional arrays and operations on them. Algoritmi višedimenzionalni nizovi i operacije nad njima. Algorithm analysis: O notation, Pzthon list analysis. Searching and sorting: lienar and binary search, sorting algorithms, operations on sorted arrays. List, stack and queue: linked lists, use of linked lists, operations on linked lists; double linked lists; stack - concept and operations; queue - concept and operation. Stack and Queue implementation; Multiple-linked lists. Recursion - concept and features. recursion implementation and usage. Hash tables: hash functions, hash tables - concept and operations, hash usage. Trees: binary trees - concept and operation; N-Trees; Search trees.					
4. Teaching methods:					
Lectures, Computer exercises; Consultations. The exam is oral. Assessment and final marks are based on the success of the laboratory exercises and an oral exam.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project defence		Yes	50.00	Theoretical part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	R.D. Necaie	Data Structures and Algorithms Using Python		Wiley	2010

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Table 5.2 Course specification

Course:		Biomechanics				
Course id:	BMI127					
Number of ECTS:	8					
Teachers:	Spasić T. Dragan, Maretić B. Ratko, Zuković M. Miodrag, Grahovac M. Nenad					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
4	2	0	0	2		
Precondition courses		None				
1. Educational goal:						
Professor's intention is to teach the student the following through this course: - to understand biomechanics as development, generalization an application of mechanics in the analysis of biosystems, for understanding physiological state and improvement of diagnoses and treatment of both injuries and illness. Biosystems are more complex in both function and form then technical systems.						
2. Educational outcomes (acquired knowledge):						
After this course student should be able: to connect knowledge acquired in course of Mechanics with nonuniform, descriptive biological material and to formulate a model for quantitative analysis of biomechanical systems to solve obtained equations and to understand the influence of aging, disease and trauma on mechanical function of systems in human body comparing to mechanical functions of the systems in physiological state for better choice of necessary intervention.						
3. Course content/structure:						
External forces and their influence o then human body and its motion. Motion of multibody system with visco-elastic elements. Mathematical models in biomechanics. Terminology, structure and functions of skeletal, muscular and nervous system. Internal forces in human body and their influence on a body and its motion. Rheological properties of tissues and tissues for restoration. Relations between stress and strain. Laws of motion and energy balance. Biomechanics of bones, joints and ligaments. Types and structure of muscles as movement initiator. Muscle contraction force. Nervous system as a steering part of musculoskeletal system. Axioms of termomechanics. Metabolism: energy, heat, work and power of the human body. Specifics of mathematical modelling and numerical simulations of the motion of the human body: dynamical modelling of a joints in the human body with special attention to the head-neck connection, models for analysis of impact, with special attention to biomechanical response of a human bodyand head during frontal impact. Application of mathematical theory of elastic rods in biomechanics. Application of biomechanicsI models in rehabilitation, exercises and sport. Usage of prosthetic devices for mechanical functions of the human body. Oscillations of biosystems.						
4. Teaching methods:						
Lectures, auditory practice, computational practice. Homework, as a method for checking of understanding and usage of terms and developed methods.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Oral part of the exam		Yes 30.00
Homework		Yes	5.00	Practical part of the exam - tasks		Yes 40.00
Homework		Yes	5.00			
Homework		Yes	5.00			
Homework		Yes	5.00			
Homework		Yes	5.00			
Lecture attendance		Yes	5.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Aydın Tözeren	Human body dynamics		Springer		2000
2,	Peter McGinnis	Biomechanics of sport and exercise		Human Kinetics		2005
3,	Yuan-Cheng Fung	Biomechanics		Springer		1993
4,	Irving Herman	Physics of human body		Springer		2007
5,	J. Wilmore, D. Costill & L. Kenney	Physiology of sport and exercise		Human Kinetics		2008

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Table 5.2 Course specification

Course:		Electromagnetics			
Course id: EE300					
Number of ECTS: 7					
Teachers:		Đurić M. Nikola, Juhas T. Anamarija, Prša A. Miroslav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The course objective is that students learn basic things about theoretical and practical properties of the electromagnetic fields, methods of their determination and the fields of their application.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge will be used in further education, in general and professional courses which follow, as well as for the specific problem solving.					
3. Course content/structure:					
General concepts about electromagnetic field – Maxwell equations, potentials of electromagnetic field, some general theorems of electromagnetic field: superposition theorem, energy distribution theorem, Poynting theorem, equivalence theorem. Electrostatic field – conductors and dielectrics in electrostatic field, methods for solving electrostatic field. Electric field of time constant currents – Duality of time constant current field with electrostatic field, theorem on characters – shoulder straps, basic concepts on relaxation and diffusion currents. Time constant magnetic field – Duality of time constant magnetic field with electrostatic field, force and torque on the current distribution in the foreign magnetic field, methods for solving the time constant magnetic field. Slow time variable electromagnetic field – definition of the slow time variable electromagnetic field, electromagnetic induction and examples of its application, mutual and self, internal and external inductance, energy and force of static and quasistatic magnetic field, skin effect and proximity effect.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Coloquium exam	No 20.00
Test		Yes	10.00	Coloquium exam	No 20.00
Test		Yes	10.00	Theoretical part of the exam	Yes 30.00
Practical part of the exam - tasks				Yes	40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko D. Popović	Elektromagnetika		Beograd	1998
2,	Anamarija Juhas	Zbirka zadatka iz elektromagnetike		FTN Izdavaštvo	2008

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Table 5.2 Course specification

Course:		Principles of digital communications			
Course id:	EK320				
Number of ECTS:	5				
Teachers:		Milošević S. Vladimir, Stefanović D. Čedomir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	2	
Precondition courses					
1. Educational goal:					
Providing students with the knowledge of the basic aspects of digital signal analysis and digital transmission.					
2. Educational outcomes (acquired knowledge):					
Theoretical background on digital communications and practical digital transmission systems, ability to use software simulation tools (Matlab) and hands-on experience on DSP platform.					
3. Course content/structure:					
Statistical analysis of digital signals. Digital signal processing – scrambling and (liner and nonlinear) line coding. Baseband transmission – impacts of noise and inter-symbol interference, probability of error. Nyquist criteria, equalization, optimal receiver. Symbol synchronization.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Laboratory exercise defence		Yes	20.00	Coloquium exam	No 35.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	I. S. Stojanović	Osnovi telekomunikacija		Građevinska knjiga, Beograd	1977
2,	V. Milošević, V. Delić	Digitalne telekomunikacije - Zbirka zadataka		Edicija Tehničke knjige, FTN i Stylos, Novi Sad	1996
3,	B. Sklar	Digital Communications		Prentice Hall, New Jersey	1988
4,	V.Milošević, V.Delić, M.Narandžić, Č.Stefanović	Digitalne telekomunikacije		WUS Austria i FTN	2005

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Table 5.2 Course specification

Course:		Analysis of PES 1				
Course id:	EE303					
Number of ECTS:	6					
Teacher:		Strezoski C. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	0		0	0
Precondition courses		None				
1. Educational goal:						
The nature of the three-phase power electrical systems. Mathematical modeling of balanced elements of power electrical systems.						
2. Educational outcomes (acquired knowledge):						
Modeling and calculation of the power electrical system elements.						
3. Course content/structure:						
Mathematical Basis. Fundamentals of power electrical systems: basic laws and theorems, symmetrical components and the system of relative values. Element models of power electrical systems: consumers, alternating machines, transformers, cables, capacitors, conductors.						
4. Teaching methods:						
Lectures; Auditory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Exercise attendance			Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Lecture attendance			Yes	5.00	Oral part of the exam	Yes 30.00
Test			Yes	10.00		
Test			Yes	10.00		
Test			Yes	10.00		
Literature						
Ord.	Author		Title			Publisher Year
1.	V.C.Strezoski		Analiza elektroenergetskih sistema			FTN 2007

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Table 5.2 Course specification

Course:		Electronic measurements				
Course id: EIEMER						
Number of ECTS: 6						
Teachers:		Milovančev S. Slobodan, Pejić V. Dragan, Vujičić V. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		0	2	0		1
Precondition courses		None				
1. Educational goal:						
Enabling students to design and use electronic measuring instruments.						
2. Educational outcomes (acquired knowledge):						
Ability to design electronic measuring instruments. Ability to develop measuring methods for the application in electronic measurements.						
3. Course content/structure:						
Elements of analog electronic instruments: operational and instrumental amplifiers, analog filters, analog correlators, modulators and demodulators. Measuring methods. Measuring in the time and frequency domain. Oscilloscopes. Spectrum analyzers. Sources of measuring signals. Power supply of electronic instruments. Measuring at high frequencies. Noise measurement. Eliminating the impact of interference in measurement. Elements of digital electronic instruments: D/A and A/D converters, digital filters, digital correlators, DFT processors, E-metering integrated circuits. Digital measuring methods. Digital instruments for frequency and time measurement. Digital multimeters. Digital oscilloscopes. Spectrum analyzers. Logic state analyzers. Waveform synthesizers. Stochastic measurements. Eliminating the impact of interference in measurement.						
4. Teaching methods:						
Lectures. Laboratory Practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence			Yes	50.00	Written part of the exam - tasks and theory	Yes 30.00
Oral part of the exam					Yes	20.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Susan Fox ed.	Measurement, Instrumentation, and Sensors Handbook			CRC Press LLC	1999
2,	Alan S. Morris	Measurement & Instrumentation Principles			Butterworth-Heinemann, Oxford	2001
3,	Walt Kester	Practical Design Techniques for Sensor Signal Conditioning			Analog Devices	1999

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Table 5.2 Course specification

Course:		Introduction to Information Theory						
Course id: EK310								
Number of ECTS: 5								
Teachers:		Šenk I. Vojin, Trpovski V. Željen						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
2		1		1		0	1	
Precondition courses								
1. Educational goal: Introduction to the basics of the information theory and an overview of algorithms used in information processing.								
2. Educational outcomes (acquired knowledge): The knowledge of basic postulates of the information theory.								
3. Course content/structure: - Introduction to information theory; - Source coding (statistical coding), block code for data compression, optimal prefix code (Huffman code), Arithmetic coding, Universal codes, Lempel-Ziv algorithms; - Protective coding (Model of the communication channel, Trans information, Equivocation, Irrelevance, Channel capacity and the methods of calculation, Optimal decoding. MAP criterion, The properties of binary symmetric channel, Convolutional codes and algorithms for their decoding)								
4. Teaching methods: Lectures and Practice.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory	Points	
Exercise attendance			Yes	5.00	Oral part of the exam	Yes	50.00	
Homework			Yes	5.00	Practical part of the exam - tasks	Yes	20.00	
Laboratory exercise attendance			Yes	5.00				
Lecture attendance			Yes	5.00				
Test			Yes	10.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Vojin Šenk		Uvod u teoriju informacija			FTN, Novi Sad		2007

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Table 5.2 Course specification

Course:		Electric Machines 1			
Course id:	EE304				
Number of ECTS:	5				
Teacher:	Vasić V. Veran				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the field of electromechanical conversion of energy, electric machines, power electronic devices and electric drives.					
2. Educational outcomes (acquired knowledge):					
- understanding the basic principles of electromechanical conversion of energy - understanding the basic properties and modes of rotary machines					
3. Course content/structure:					
Rotary electric machines, classification and characteristics. Magnetic excitation forces, flux, inductance, threaded factors, induced electromotive force. Electromagnetic torque. The windings of electric machines. Losses and heating. Transformers (magnetic circuit, windings, operation principle, equivalent circuit, voltage drop, three-phase loop transformers, parallel operation of three-phase transformers, control transformers, auto-transformers).					
4. Teaching methods:					
The course includes lectures and practice. In the lectures, contemporary illustrations for intuitive understanding of the lectured matter are used. In order to fully master the matter, in the auditory practice students solve problems which follow lectures and enable students to independently solve problems from the engineering practice. Part of the practice is carried out in the laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Lecture attendance		Yes	5.00	Coloquium exam	Yes 20.00
Test		Yes	20.00	Coloquium exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	B. Jurković, Z. Smolčić:	Kolektorski strojevi		Školska knjiga	1986
2,	Z. Sirotić, Z. Maljković	Sinkroni strojevi		FER	1996
3,	A. Dolenc	Sinhroni strojevi		Sveučilište Zagreb	1982
4,	P. C. Sen	Principles of Electric Machines and Power Electronics		JOHN WILEY & SONS	1997
5,	J. J. Cathy	Electric Machines: Analysis and Design Applying Matlab		McGRAW-HILL BOOK COMPANY	2001
6,	S. J. Chapman	Chapman: Electric Machinery Fundamentals		McGRAW-HILL BOOK COMPANY	1999
7,	Đ. Kalić, R. Radosavljević	Transformatori		Zavod za udžbenike i nastavna sredstva	2001
8,	R. Wolf	Uvod u teoriju električnih strojeva		Školska knjiga Zagreb	1975

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Table 5.2 Course specification

Course:		Cognitive Processes for Engineers			
Course id:	EI303				
Number of ECTS:	4				
Teacher:	Zdravković T. Sunčica				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	1	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the field of cognitive processes.					
2. Educational outcomes (acquired knowledge):					
Introduction to cognitive processes. Ability to carry out experiments.					
3. Course content/structure:					
Perception, senses, early processes of cognitive processing, operating memory, long term memory, integrative functions, experiment, attention, language, memory, practical models.					
4. Teaching methods:					
Lectures; Laboratory Practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Written part of the exam - tasks and theory	Yes 70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	P. Ognjenović	Psihologija opažanja		Zavod za udžbenike i nastavna sredstva Beograd	1990
2,	A. Kostić	Kognitivna obrada informacija		Zavod za udžbenike i nastavna sredstva Beograd	2006

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Table 5.2 Course specification

Course:		Digital Filters			
Course id:	EK411				
Number of ECTS:	5				
Teachers:	Delić D. Vlado, Sečujski S. Milan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	1	
Precondition courses					
1. Educational goal:					
After gaining fundamental knowledge about digital signal processing in the course of the same name, this course objective is to extend and deepen the knowledge of students through introduction to the more advanced algorithms and applications of digital signal processing. The goal is to get introduced to the designing methods of optimal filters and adaptive systems which are increasingly used in the practice.					
2. Educational outcomes (acquired knowledge):					
Students get introduced to the theoretical limits and designing methods of optimal digital filters and adaptive systems in the lectures. They will learn to choose optimal structures for the realization and to design complex systems for digital signal processing. The will know estimation methods of the signal spectrum. Greater emphasis of this course is on the Practice in the Laboratory for digital signal processing at the Faculty of Technical Sciences, where students will learn to use specialized software for digital filter design.					
3. Course content/structure:					
Methods of design and selection of structure for the realization of optimal digital FIR and IIR filters. Multi-rate systems. Adaptive systems. Spectrum estimation (while being introduced to the Matlab Simulink)					
4. Teaching methods:					
The whole course of lectures (2 hours per week) is continually followed by the synchronized auditory (1 hour) and computer practice (2 hours per week). Lectures are held by the professor using the PowerPoint presentations available to the students in the .pdf format. Presentations with animations illustrate critical details from the lectures. Problems are solved in the auditory practice. The whole course is followed by the Laboratory practice for digital signal processing at the Faculty of Technical Sciences, where students gain practical experience working on the software tools for digital signal processing. Practice preparation and preparation of homework assignments is done through the Web portal of the Department using specially designed on-line exercises. Part of the acquired theoretical knowledge is tested during the semester in the form of test (colloquiums), while practical work is verified through doing and defending short project and homework assignments. Those are all exam					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Milan Sečujski, Vlado Delić, Nikša Jakovljević, Igor Radić	"Zbirka zadataka iz digitalne obrade signala"		FTN, Novi Sad	2007
2,	Ljiljana Milić, Zoran Dobrosavljević	"Uvod u digitalnu obradu signala"		Nauka, Beograd	1995
3,	Milan Sečujski, Nikša Jakovljević	"Prezentacije sa predavanja i on-line vežbe preko web portala Katedre za telekomunikacije i obradu signala"			2010

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Table 5.2 Course specification

Course:		Microprocessor Electronics			
Course id:	EM300A				
Number of ECTS:	6				
Teachers:		Malbaša D. Veljko, Mezei D. Ivan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Enabling students to make models, modular designs, simulate and implement hardware functional units and microcomputer systems based on the microprocessors and microcontrollers. Enabling students to design, write and test application and system programmes in the symbolic machine language and programme language at high level for the microcomputer system design.					
2. Educational outcomes (acquired knowledge):					
The student who successfully completes this course will be able:					
- to design, simulate and implement hardware functional units of the microcomputer system based on the given specifications.					
- to design, simulate and implement hardware microcomputer system for general purposes based on the microprocessors and microcontrollers according to the given specifications.					
- to model, design, simulate and implement simple application and system programmes in the symbolic machine language and programme language at the high level for the given microcomputer system.					
- to test microcomputer system in the developing system based on the programmable circuits of the FPGA type.					
3. Course content/structure:					
Structure of the microcomputer systems for general purposes. Structure and features of the embedded microcomputer systems. Functional units of the microcomputer systems. Hardware functional unit design. Design of the microcomputer systems based on the microprocessors and microcontrollers. Application of software tools in design and simulation of microcomputer systems. Structure of the programme support of the embedded microcomputer systems. Design, writing and testing of application and system programmes. Application of programme languages at the high level and software tools in the programme support design of microcomputer systems. Introduction to microcomputer systems for real time operation.					
4. Teaching methods:					
Lectures; Computer Practice; Laboratory Practice; Consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Final exam - part one	Yes 25.00
Laboratory exercise defence		Yes	40.00	Final exam - part two	Yes 25.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Veljko Malbaša	Mikroprocesorska elektronika - skripta		Fakultet tehničkih nauka, Novi Sad	2002

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Table 5.2 Course specification

Course:		Operating Systems and Competitive Programming				
Course id: EE301						
Number of ECTS: 7						
Teachers:		Hajduković P. Miroslav, Suvajdžin Rakić B. Zorica				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses						
1. Educational goal:						
The main course objective is mastering the principles of operation and structure of the operating system, as well as adopting the basics of competitive programming.						
2. Educational outcomes (acquired knowledge):						
Ability to use operating system on a user and system level and mastering the basic principles of concurrent programming.						
3. Course content/structure:						
Concepts and principles of operating systems. Concurrent nature of the operating system. Concurrent libraries. Cooperation and synchronization of processes/threads. Structure of the operating system. Distributed operating systems.						
4. Teaching methods:						
Lectures. Computer Practice. Consultations. Among the examination prerequisites students take four tests and one course project. The theoretical part of the course is being tested through the final examination. The number of required points for the signature is 30.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	30.00	Theoretical part of the exam	Yes 30.00
Test			Yes	10.00		
Test			Yes	10.00		
Test			Yes	10.00		
Test			Yes	10.00		
Literature						
Ord.	Author	Title			Publisher	Year
1,	M. Hajduković	Operativni sistemi – problemi i struktura			FTN izdavaštvo	2013

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Table 5.2 Course specification

Course:		Power Electronics 1			
Course id:	EE305				
Number of ECTS:	5				
Teachers:		Čelanović L. Nikola, Grabić U. Stevan, Gušavac J. Strahil, Katić A. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	1	1	0		0
Precondition courses		None			
1. Educational goal:					
Power Electronics 1 course objective is to enable the student to design and apply devices for converting parameters of electrical energy using the powerful electronic switching components and methods of digital control, that is, in addition to the theoretical studying of strong semiconductors and modes of all kinds of converters (AC/DC, DC/DC, DC/AC and AC/DC), students acquire the necessary practical experience to apply the acquired knowledge in the economy.					
2. Educational outcomes (acquired knowledge):					
After mastering the course Power Electronics 1, students will be able to understand the principles and operation methods of power electronic conversions with strong semiconductor components, to solve and calculate simple solutions of power converters, as well as to apply commercial industrial power converters to electromotive drives and similar applications. They will be able to calculate methods of protection of these devices, as well as to predict their negative impact on network and fed consumers.					
3. Course content/structure:					
Subject and the importance of the power electronics. Introduction to power converters. Components of power electronics. Structure and the operation principles. Safe operation field. Calculation of losses. Adjusters (AC/DC). Inverters (DC/AC). Alternating power suppliers (AC/AC). Power converters and the power quality. Converters for compensation and improvement of the power quality. Excitation circuit for switching components. Methods of control and regulation of power converters. Application examples of the power electronic devices.					
4. Teaching methods:					
Lecturing theoretical operational principles of strong electronic components and power electronic converters, Auditory Practice where problems of calculation of the power converters and their protective circuits are solved, Laboratory Practice where students gain practical proof of the theoretical knowledge and gain necessary practical experience and confidence using modular approach and independent work.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Practical part of the exam - tasks	Yes 50.00
Laboratory exercise defence		Yes	20.00		
Lecture attendance		Yes	5.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko Dokić	Energetska elektronika: pretvarači i regulatori		Elektrotehnički fakultet i Banjaluka Company, Banja Luka	2000
2,	Vladimir Katić	Energetska elektronika: Zbirka rešenih zadataka		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	1998
3,	Vladimir Katić, Darko Marčetić, Dušan Graovac	Energetska elektronika: Praktikum laboratorijskih vežbi		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	2000

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Table 5.2 Course specification

Course:		Analog Microelectronic Circuits			
Course id:	EM301A				
Number of ECTS:	6				
Teachers:	Nadž F. Laslo, Živanov B. Miloš				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the fields of analog microelectronic circuits, amplifiers, feedback, sine-wave oscillators, power supplies and converters. The students will be prepared for electronic circuit simulation. Acquiring basic knowledge needed for analog integrated circuit design.					
2. Educational outcomes (acquired knowledge):					
Ability to analyze and basic knowledge to design: voltage and power amplifiers, amplifiers with various frequency characteristics, amplifiers with feedback, operational amplifier circuits, sine-wave oscillators, power supplies. Acquiring the basic knowledge to design analog and basic digital integrated circuits.					
3. Course content/structure:					
Single- and multi-stage amplifiers, differential amplifiers, frequency characteristics of amplifier, power amplifiers, analysis of electronic circuits in SPICE, amplifiers with feedback, operational amplifiers, stability of feedback amplifiers, sine-wave oscillators, power supplies, active filters, polarization of analog integrated circuits, AD and DA converters.					
4. Teaching methods:					
Lectures, auditory exercises, computer exercises, laboratory exercises, consultations					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Laboratory exercise defence		Yes	20.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Miloš Živanov	Elektronika, pojačavačka kola, teorija i zadaci		FTN Izdavaštvo, Novi Sad	2004
2,	S.Lj.Tešić, D.M.Vasiljević	Osnovi elektronike: komponente, pojačavačka kola, impulsna i digitalna kola		Građevinska knjiga, Beograd	1997
3,	R.C.Jaeger	Microelectronic Circuit Design		McGraw-Hill Companies, Inc., New York	1997
4,	A.S. Sedra., K.C. Smith	Microelectronic Circuit Design		Holt, Renehart@Winston, New York	1997
5,	S. Marjanović	Elektronika 1		Beopres, Beograd	1998
6,	J. Millman, A. Grabel	Microelectronics		McGraw-Hill Companies, Inc., New York	1987
7,	M.B. Živanov	Elektronika - komponente, teorija i zadaci		Univerzitet u Novom Sadu	2002

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Table 5.2 Course specification

Course:		English in Engineering 1			
Course id:	EJE11				
Number of ECTS:	2				
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	0	0	0	
Precondition courses					
1. Educational goal:					
Mastering the most significant terms related to the profession and major. Developing strategies for understanding the foreign language text. Enabling students to read and understand original English texts from different sources related to numerous aspects and fields of electrical engineering. Developing oral and written communication related to these topics while using the adequate vocabulary and complex sentence structures.					
2. Educational outcomes (acquired knowledge):					
Students know a wide range of vocabulary terms related to the field of study. They can read versatile literature in this field and communicate about those topics in the English language using the terms and sentence structures typical for the language of their future profession.					
3. Course content/structure:					
Processing contemporary professional texts in English, related to different aspects in the field of electrical engineering profession. Developing strategies for understanding professional texts such as: skimming, scanning, comparing sources, using context, using background knowledge etc. Mastering the common terms related to the profession and major. Adopting the language functions such as: comparison, classification, expressing purpose or function, describing the constituents, causal connections and such. The most common prefixes, suffixes, compound words and collocations. Passive voice, participial constructions. Short forms of relative sentences (active and passive), short forms in different tenses (active and passive).					
4. Teaching methods:					
The emphasis is placed on student activities during the class, their interaction with the teacher and between themselves. The communicative approach is used in the lectures. Practice is designed to make it easier to understand the text as well as to practice particular vocabulary and other typical features of the professional language. Some exercises are designed to encourage students to further practice their language skills using the wider knowledge in the field of study through comments and explanations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test		Yes	10.00	Oral part of the exam	Yes 30.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	John Eastwood	Oxford Practice Grammar, Intermediate		OUP	2006
2,	Eric Glendinning, John McEwan	Oxford English in Electronics		OUP	1993
3,	Grupa autora	Oxford English - Serbian Dictionary		OUP	2006
4,	Popić i dr.	Naučno tehnički rečnik		Privredni pregled, Beograd	1989

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Table 5.2 Course specification

Course:		Laboratory practice of electronics			
Course id:	EM308A				
Number of ECTS:	3				
Teachers:					
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Gaining deepen knowledge in the field electronics.					
2. Educational outcomes (acquired knowledge):					
- Efficient analysis of electronic circuits and comparison against results measured on the physically realized electronic circuits - a critical analysis of the results of measurements on electronic circuits - the identification and elimination of the influence of secondary or parasitic effects on the electronic circuit measurements (the impact of measuring instruments, temperature, parasitic parameters of electronic components, voltage power ...)					
3. Course content/structure:					
During the course, the exercises will be done in the laboratory of electronics. Before each cycle exercise test input is taken. Exercises are based on the topics covered in subjects "Introduction to Electronics", "Digital Electronics" and "Analog microelectronic circuits". Exercise would be in the following areas: Temperature dependence of static characteristics of diode. Polarization of bipolar transistors (measuring current gain, change position of the operating point of transistors with temperature). Polarization of MOSFET (measurement B and VT). Measurement of the transistor amplifiers. Connection of basic operational amplifier circuits on the breadboard. The switching mode of transistors and MOSFETs. Analysis of combining digital networks. Hazards in combinational networks. Analysis of sequential networks. Hazards in combinational networks.					
4. Teaching methods:					
Laboratory practice which include measuring equipment in electronics.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Oral part of the exam	Yes 50.00
Laboratory exercise defence		Yes	45.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Živanov	Elektronika, komponente i pojačavačka kola		FTN, Novi Sad	2003
2,	S. Tešić, D. Vasiljević	Osnovi elektronike		Grosknjiga, Beograd	1994
3,	D.Živković,M.Popović	Impulsna i digitalna elektronika		ETF Beograd, Nauka	1996
4,	M.Damjananović	Praktikum iz laboratorijskih vežbi iz elektronike		FTN, Novi Sad	2007

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Table 5.2 Course specification

Course:						
Course id:	EM3P0A					
Number of ECTS:	3					
Teachers:						
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
0	0	2	0	1		
Precondition courses		None				
1. Educational goal:						
2. Educational outcomes (acquired knowledge):						
3. Course content/structure:						
4. Teaching methods:						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Project		Yes	70.00	Project defence	Yes	30.00
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Thomas Petruzzellis	Electronics Sensors for the Evil Genius:54 Electrifying Projects(Evil Genius)		McGraw-Hill/TAB Electronics	2006	
2,	Rudolf F. Graf, William Sheets	Encyclopedia of Electronic Circuits, Volume 7		McGraw-Hill/TAB Electronics	1998	
3,	Richard Crowder	Electronic Drives And Electromechanical Systems		University of Southampton, Elsevier	2006	
4,	Jacques Bures	Guided Optics:Optical Fibers and All-fiber Components		Wiley	2008	
5,	Myke Predko	Electronics-Circuits and Systems		McGraw-Hill/TAB Electronics	2005	

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Table 5.2 Course specification

Course:		Systems of Automatic Control in Power Engineering			
Course id: EEI302					
Number of ECTS: 7					
Teacher:		Kulić J. Filip			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
Introducing students to the theoretical and practical basis of analysis and synthesis of the automatic control system.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge can be used in solving specific engineering problems, and also represent the basis for further understanding of professional courses.					
3. Course content/structure:					
Quality assessment of control in the stationary and transient regime. Analysis of the system stability using analytical methods. Analysis and synthesis of the system using the root locus. Analysis and synthesis of the system in the frequency domain: Niquist criterion of stability, threats to stability, Bode method. The space concept of the system state. Choice and adjustment of the industrial controller parameters: PID controller. Introduction to digital control systems.					
4. Teaching methods:					
Lectures; Computing (N), Laboratory (L), Computer (C) and Computer-Laboratory (CL) Practice; Consultations. Part of the course which represents a logical whole can be passed in the form of colloquium. Colloquium and the examination are oral and written. Colloquium and the written part of the examination are taken in the written from, while oral part of the examination is oral. Course grade is formed based on the success in Colloquium, computer-laboratory practice and written and oral part of the examination.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	30.00	Oral part of the exam	Yes 20.00
				Practical part of the exam - tasks	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna knjiga, Beograd	1996
2,	. B.Kovačević, Ž.Đurović	Sistemi automatskog upravljanja -zbornik rešenih zadataka		Nauka, Beograd	1995
3,	D. Kukolj i ostali	Osnove klasične teorije automatskog upravljanja kroz rešene primere		Somel, Sombor	1995
4,	D. Kukolj, F. Kulić	Projektovanje sistema automatskog upravljanja u prostoru stanja		Univerzitet u Novom Sadu, Novi Sad	1995

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Table 5.2 Course specification

Course:		Microprocessor based measurement and data acquisition systems 1			
Course id:	EIDMS1				
Number of ECTS:	7				
Teachers:		Sovilj M. Platon, Mitrović Lj. Zoran, Bojković J. Gordana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
The acquisition of knowledge in the field of microprocessor based measurement and data acquisition systems.					
2. Educational outcomes (acquired knowledge):					
understanding application and architecture of microprocessor based measurement and data acquisition systems; the ability to work in interdisciplinary teams on understanding and solving problems related to the application of microprocessor based measurement and data acquisition systems; the ability to search the literature and other forms of information in the field of microprocessor based measurement and data acquisition systems and the ability of the presentation of research results; good knowledge and understanding of modules in microprocessor based measurement and data acquisition systems;					
3. Course content/structure:					
The concept of measurement and data acquisition system. Introduction to data acquisition. Microprocessor Architecture of measurement and acquisition systems (analog signal converters, signal conditioners, modules for A / D and D / A conversion, microprocessors, microcontrollers, DSPs, programmable logic elements, ...). Computer and emebded measurement and data acquisition systems. Application of personal computers, embedded processors and microcontrollers. Types and architecture of microcontrollers and embedded processors. Stanard hardware interfaces and protocols in the measurement and data acquisition systems (serial, parallel, IEEE 488, USB, Ethernet LAN, wireless). Plugin card for data acquisition. Data processing and analysis of measurement and data acquisition systems. Data storage and compression techniques. The commercial products for data acquisition. Development systems and tools. Introduction to the development of the microprocessor firmware and software in measurement and data acquisition systems. Introduction to the virtual measurement and data acquisition instrumentation. Introduction to distributed measurement and data acquisition systems. The role of measurement and acquisition in SCADA systems. Introduction to Web-based measurement and data acquisition systems. Development of microprocessor measurement and data acquisition systems based on PIC microcontroller families.					
4. Teaching methods:					
Lectures, auditory exercises, laboratory exercises, consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Laboratory exercise defence		Yes	30.00		
Lecture attendance		Yes	5.00		
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. P., S. MacKay	Practical Data Acquisition for Instrumentation and Control Systems		Newnes	2003
2,	H. Austerlitz	Data Acquisition Techniques Using PCs		Academic Press	2002
3,	Steven F. Barrett, Daniel J. Pack	Microcontrollers Fundamentals for Engineers and Scientists		Morgan & Claypool	2006

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Table 5.2 Course specification

Course:		Sensors and transducers			
Course id:	EISMP				
Number of ECTS:	7				
Teachers:		Milovančev S. Slobodan, Mitrović Lj. Zoran, Vujičić V. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring of basic knowledge in the field of sensors and transducers, physical properties of sensors, manufacturing process.Dependency of change of physical parameters on the quantity being measured, as well as ways to connect sensors in electric or electronic circuit and sensor signal conditioning.					
2. Educational outcomes (acquired knowledge):					
Introduction to the principles and application of sensors and transducers. The ability to simulate the operation of sensors and transducers using the modern software tools. Ability to design and use sensors and transducers. Ability to choose the appropriate sensor and transducer for different purposes.					
3. Course content/structure:					
Introduction. Principles of operation and use of sensors. Types of sensors: capacitive, inductive, resistive, electromagnetic, the Hall-effect, ChemFET transistors, piezoelectric, optical, sensors, displacement sensors, radiation sensors, etc. Sensors of electrical and non-electrical quantities. Intelligent sensors. Metrology of sensors. Application and architecture of transducers. Adjustment (conditioning) of sensor signals. Analog and digital electronic circuits used in transducers. Surge protection. Maintaining signal quality. Software packages to simulate physical properties of sensors and transducers. Circuits for impedance matching.					
4. Teaching methods:					
Lectures, laboratory practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 30.00
				Coloquium exam	No 20.00
				Coloquium exam	No 20.00
				Oral part of the exam	Yes 40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Mladen Popović	Senzori i merenja		Zavod za udžbenike i nastavna sredstva Srpsko Sarajevo	2004
2,	Mladen Popović	Senzori tačnosti i gasova		Zavod za udžbenike i nastavna sredstva Srpsko Sarajevo	2003
3,	Mladen Popović	Senzori u robotici		Viša elektrotehnička škola Beograd	1996

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Table 5.2 Course specification

Course:		Logic Design of Computer Systems 1			
Course id:	E227A				
Number of ECTS:	6				
Teachers:		Teslić Đ. Nikola, Pjevalica U. Nebojša			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Knowledge about the basics of digital system design.					
2. Educational outcomes (acquired knowledge):					
Knowledge about the basic techniques for designing and testing digital systems. The acquired knowledge provides the basis for understanding engineering courses which will follow.					
3. Course content/structure:					
Switching functions (analytical methods of representation, Functionally complete system and minimization). Finite automata (methods, time behaviour of synchronous sequential systems and minimum number of states). sequential system design. Combinational networks (standard modules and programmable combinational networks). Standard sequential networks (memory elements and registers). The notion of complex digital systems (AHPL, RTL and basic VHDL). Programmable combinational and sequential networks (PAL, PLD, CPLD, FPGA). Design of arithmetic logic unit. Logic design of processor control unit. Micro program control unit (description and realization with VHDL). Hypothetical processor (description and realization with VHDL).					
4. Teaching methods:					
Lectures, Tutorials. Computer practice. Consultations. Students attend lectures, auditory practice and laboratory practice classes. Each laboratory practice is graded. There are three colloquia taken at laboratory practice classes. A colloquium consists of a test which checks students' theoretical knowledge and practical tasks at the computer.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Test	Yes 10.00
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Theoretical part of the exam	Yes 30.00
Practical part of the exam - tasks				Yes	40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Kovačević	Logičko projektovanje računarskih sistema, Projektovanje digitalnih sistema		Univerzitet Novi Sad	2009
2,	M. Katona, N. Teslić, V. Kovačević	Zbirka rešenih zadataka iz projektovanja digitalnih sistema		Univerzitet Novi Sad	2010

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Table 5.2 Course specification

Course:		Analysis of PES 2				
Course id: EE0306						
Number of ECTS: 5						
Teacher:		Strezoski C. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	0		0	0
Precondition courses None						
1. Educational goal: The nature of three-phase power electrical systems. Mathematical modeling of balanced power electrical systems. Basic problems: power flow and failure.						
2. Educational outcomes (acquired knowledge): Modeling and calculation of power electrical systems (transmission, production and distribution networks).						
3. Course content/structure: Power electrical system regulation: regulation of active power and frequencies and regulation of reactive power and voltage. Problems of power flow. Problems of failure (short circuits and phase interruptions).						
4. Teaching methods: Lectures; Auditory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Exercise attendance			Yes	5.00	Written part of the exam - tasks and theory	Yes 35.00
Lecture attendance			Yes	5.00	Oral part of the exam	Yes 35.00
Term paper			Yes	20.00		
Literature						
Ord.	Author		Title		Publisher	Year
1.	V.C.Strezoski		Analiza elektroenergetskih sistema		FTN	2006

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Table 5.2 Course specification

Course:		Standardization and quality				
Course id:	EISIK					
Number of ECTS:	4					
Teacher:	Spasić-Jokić M. Vesna					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
1	0	0	0	2		
Precondition courses		None				
1. Educational goal:						
Acquiring basic knowledge in the field of standardization, as well as the knowledge about creation and the use of standards and technical regulations, and also certification of systems, processes and products.						
2. Educational outcomes (acquired knowledge):						
The need for the creation and the use of standards. Ability to design and establish standardization system. Programming and planning in the standardization system. Ability to manage standardization system. Accreditation and certification of the system, processes and products.						
3. Course content/structure:						
The concept of standardization. Goals and principles of standardization. Standards and technical regulations. Accreditation and certification. Basic parameters of the standardization system. Environment of the standardization system. Normative regulations in the field of standardization. Model of the standardization system. Basic settings of the model. Subsystems of the standardization system. Relationships between subsystems of the standardization system. Programming and planning in the standardization system. Standardization system management.						
4. Teaching methods:						
Lectures; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Project		Yes	30.00	Oral part of the exam	Yes 70.00	
Literature						
Ord.	Author	Title		Publisher	Year	
1.	Mile Pešaljević	Inženjerske komunikacije i logistika		FTN Novi Sad	1995	

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Table 5.2 Course specification

Course:		Digital Modulations				
Course id:	EK300					
Number of ECTS:	5					
Teachers:		Milošević S. Vladimir, Petrović S. Vladimir, Stefanović D. Čedomir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		1	1	0		1
Precondition courses						
1. Educational goal:						
Mastering the principles of modulation methods for the digital signal transmission.						
2. Educational outcomes (acquired knowledge):						
Theoretical knowledge, practical work (MATLAB simulations, DSP programming).						
3. Course content/structure:						
Signal transmission in the transposed frequency range (ASK, QAM, PSK, FSK, combined modulations, ODFM, Trellis encoded modulation). Probability of error in transmission of digitally modulated signals. Transmission of signals in the spread spectrum (DS, FH). Carrier synchronization.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Homework		Yes	10.00	Written part of the exam - tasks and theory		Yes 70.00
Laboratory exercise defence		Yes	20.00	Coloquium exam		No 30.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	G. Lukatela, D. Drajić, G. Petrović, R. Petrović	Digitalne telekomunikacije			Građevinska knjiga, Beograd	1984
2,	I. S. Stojanović	Osnovi telekomunikacija			Građevinska knjiga, Beograd	1977
3,	V. Milošević, V. Delić	Digitalne telekomunikacije - Zbirka zadataka			Edicija Tehničke knjige, FTN i Stylos, Novi Sad	1996
4,	B. Sklar	Digital Communications			Prentice Hall, New Jersey	1988
5,	V.Milošević, V.Delić, M.Narandžić, Č.Stefanović	Digitalne telekomunikacije			WUS Austria i FTN	2005

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Table 5.2 Course specification

Course:		Electric Machines 2			
Course id:	EE307				
Number of ECTS:	5				
Teacher:	Vasić V. Veran				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses					
None					
1. Educational goal:					
Acquiring basic knowledge in the field of electromechanical conversion of energy, electric machines, power electronic devices and electromotive drives.					
2. Educational outcomes (acquired knowledge):					
- understanding the basic principles of electromechanical conversion of energy					
- understanding the basic properties and modes of rotary machines					
3. Course content/structure:					
Electric machines with DC. DC machines according to the excitation power. Parts and design, commutation, application, properties, movement, speed control. Synchronous machines, parts and construction, application, properties, parameters, equivalent circuit, vector diagrams, external properties, angular features, operating map.					
4. Teaching methods:					
The course consists of lectures and practice. Contemporary illustrations for intuitive understanding of the taught matter are used in lectures. In order to fully master the course, problems are solved in auditory practice which accompany lecture and encourage students to independently solve problems from the engineering practice. Part of the practice is carried out in the laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Laboratory exercise attendance		Yes	5.00	Coloquium exam	Yes 20.00
Test		Yes	20.00	Coloquium exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	B. Jurković, Z. Smolčić	Kolektorski strojevi		Školska knjiga	1986
2,	Z. Sirotić, Z. Maljković	Sinkroni strojevi		FER	1996
3,	A. Dolenc	Sinhroni strojevi		Sveučilište u Zagrebu	1982
4,	P. C. Sen	Principles of Electric Machines and Power Electronics		JOHN WILEY & SONS	1997
5,	J. J. Cathy	Electric Machines: Analysis and Design Applying Matlab		McGRAW-HILL BOOK COMPANY	2001
6,	S. J. Chapman	Electric Machinery Fundamentals		McGRAW-HILL BOOK COMPANY	199

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Table 5.2 Course specification

Course:		Biophysics			
Course id:	EI410				
Number of ECTS:	5				
Teachers:	Satarić V. Miljko, Spasić-Jokić M. Vesna				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Introducing students to the part of medical physics which studies physical principles of the human body, i.e., physics of physiology of the human body.					
2. Educational outcomes (acquired knowledge):					
General capabilities: Ability to work in an interdisciplinary team of physicists and doctors trying to understand and solve problems related to the human body functioning; Understanding the nature and ways of physical research and physics application in medicine; Ability to research relevant literature and other forms of information. Subject-specific abilities: Understanding functioning of the human body and application of physical principles on the human body viewed as a physical system (cybernetic, thermodynamic) of specific characteristics; Understanding the physical basis of functioning of some human body systems (musculoskeletal, cardiovascular, nervous); Understanding physical basis for functioning of human senses (sense of hearing and sight).					
3. Course content/structure:					
Theoretical lectures. Human body as cybernet system: systems, cybernetic systems, regulatory system in the human body; modeling. Biomechanics of musculoskeletal human system: elements of musculoskeletal system; functioning of the musculoskeletal system-models; real systems. Biomechanics of cardiovascular system: characteristics of blood flow through blood vessels; the cardiovascular system; skin effect. Thermodynamics of the human body: thermodynamic systems and thermodynamic principles; energy changes in the body. Transport processes in the human body: the transport of the heating energy; diffusion, transport of substances through cell membranes. Electrical processes in the human body: electric signals and their registration; functional diagnostics; application of electricity and magnetism on the human body. Bioacoustics: mechanical oscillations and waves; sound; human ear as a hearing device. Visible light, UV and IR in diagnostics and therapy; eye physics and vision. Practical lectures; Practice that accompanies theoretical lecture programme or visits to the adequate clinics of the Medical Faculty in order to get introduced to the practical application of certain devices. Term paper: Detailed analysis of the selected issues from one of the above listed areas and presentation in the electronic form.					
4. Teaching methods:					
Lectures. Auditory Practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Coloquium exam	No 20.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 40.00
Project		Yes	50.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	S. Stanković	Fizika ljudskog organizma		PMF Novi Sad	2006
2,	R. K. Hobbie	Intermediate Physics for Medicine and Biology, 3rd ed.		Springer Sciences+Business Media, Inc. USA	1997

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Table 5.2 Course specification

Course:		IP technology				
Course id:	EK321					
Number of ECTS:	5					
Teachers:		Vukobratović V. Dejan, Lončar-Turukalo G. Tatjana				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:	
2		1	1	0	2	
Precondition courses						
None						
1. Educational goal:						
Acquiring advanced knowledge in IP technology and IP communications.						
2. Educational outcomes (acquired knowledge):						
Capability to understand the set of protocols within IP protocol stack and advanced knowledge in routing techniques in IP networks.						
3. Course content/structure:						
TCP/IP protocol stack, Internet addressing, Basics of IP protocol, ARP and ICMP protocol, Routing in IP networks, Transport layer - UDP, TCP, Flow control in IP networks, IP/MPLS networks, IP services and QoS.						
4. Teaching methods:						
Lectures, tutorial sessions, and lab exercise.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
				Coloquium exam	Yes	30.00
				Theoretical part of the exam	Yes	70.00
Literature						
Ord.	Author	Title		Publisher		Year
1.	Andrew Tannenbaum	Computer Networks		Prentice Hall		2002

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Table 5.2 Course specification

Course:		Microelectronics			
Course id:	EM303				
Number of ECTS:	7				
Teacher:	Živanov D. Ljiljana				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses					
1. Educational goal:					
Acquiring basic knowledge in the field of microelectronic technologies, integrated circuit design and characteristic, technology of micro sensor, MEMS and three-dimensional integrated circuit production.					
2. Educational outcomes (acquired knowledge):					
- ability to design electrical schemes of simple logical circuits in CMOS technology using Full-custom and Semi-custom method					
-ability to design masks of simple integrated circuits using CAD software tool					
-ability to simulate basic Pf/microwave integrated circuits (inductors, capacitors, filters)					
-ability to carry out simple measurements on silicon wafer					
3. Course content/structure:					
Methods of obtaining massive and thin single crystals. Planar operations in the preparation of Si integrated circuits. Production of Si bipolar integrated circuits. Production of Si unipolar (NMOS, CMOS) integrated circuits. Making the BiCMOS integrated circuits. Full-custom and semi-custom approach to design masks for integrated circuits. Design rules in the L-EDIT software tool. Designing masks of the basic CMOS logic circuits. Measuring and testing of integrated circuits on Wafer. Examples of design and simulation of basic Rf/microwave integrated circuits. The basis of nanotechnology and MEMS technology. Technology for micro sensor, micro machine and micro system production. Thick- and thin-film integrated circuits. Limitations in the design and fabrication of contemporary integrated circuits. Three-dimensional integrated circuits.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Final exam - part one	Yes 30.00
Laboratory exercise attendance		Yes	5.00	Final exam - part two	Yes 30.00
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	N. H. E. Weste, K. Esharaghian	Principles of CMOS VLSI Design		Addison-Wisley Pub.Com.Inc.	2005
2,	R. Jacob Baker, Harry W. Li, David E. Boyce	CMOS , Circuit Design, Layout, and Simulation		Wiley-IEEE Press	2001
3,	Adel S. Sedra, Kenneth C.	Microelectronic Circuits (The Oxford Series in Electrical and Computer Engineering)		Oxford University	2003
4,	J. D. Plummer, M. D. Deal and P. B. Griffin	Silicon VLSI Technology: Fundamentals, Practice, and Modeling		Prentice Hall	1996
5,	Jogn P. Uyemura	Physical Design of CMOS Integrated Circuits Using L-EDIT		PWS Publishing Company	1995
6,	Lj. Živanov, G. Stojanović	Mikroelektronika sa primerima i zadacima		WUS Austria & FTN Novi Sad	2005

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Table 5.2 Course specification

Course:		Academic Written and Spoken Communication in the Serbian Language			
Course id:	E1270				
Number of ECTS:	2				
Teacher:		Pavlović J. Slobodan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	0	0		0
Precondition courses		None			
1. Educational goal:					
Acquiring and improving the academic communication competencies in the Serbian language;					
2. Educational outcomes (acquired knowledge):					
Ability to recognize functional-style register in the Serbian language and perception of their context conditioning, and ability of involvement in scientific function-style discourse.					
3. Course content/structure:					
The concept and structure of verbal communication. Stratification of natural human language. Functional-style stratification of the Serbian language. Conversational discourse (communication by e-mail). Administrative discourse (creating the correspondence genres: CVs, applications, appeals, requests...). Journalistic discourse. Fictional discourse. General characteristics of the scientific discourse. Styles of scientific discourse and their organization: academic style, textbook style, popular scientific style. Development of the scientific paper: types and structures of scientific work; documentation feedback of the scientific work (citations, footnotes, bibliography); language and style of the scientific work; technical processing of the scientific work. Typical substandard phenomenon in the academic communication and their correction: spelling mistakes; word choice; sentence structure.					
4. Teaching methods:					
At the beginning of the course all students take an entrance examination which determines the culture level of the written and spoken communication of each student. Knowledge testing is done continually during the course. Final examination is written and oral and has an objective to evaluate the improvement of each student compared to the level presented at the entrance examination.					
The complexity of functions which successful communication should fulfill is demonstrated through interactive exercises in small groups (expression of personal attitude, research results, exchanging views, evaluation of other people's arguments in the written or spoken form, negotiation, etc.). Practice develops the understanding of context in which communication takes place.					
Monological method, dialogic method, work on the text method, corrective method;					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	10.00	Oral part of the exam	Yes 50.00
Term paper		Yes	40.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Blommaert, J.	Discourse		Cambridge: Cambridge University Press	2005
2,	Burgoon, J. K., Buller, D. B., & Woodall, W. G.	Nonverbal communication: The unspoken dialogue (2nd ed.)		New York: McGraw-Hill	1996
3,	Bonvillian, N.	Language, Culture and Communication: The Meaning of Messages		NJ: Prentice Hall	1993
4,	Cassell J. & McNeill, D.	Gesture and the poetics of prose		Poetics Today, 12, 375-404	1991
5,	Severin, Werner J., Tankard, James W., Jr.	Communication Theories: Origins, Methods, Uses		New York: Hastings House.	1979

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Table 5.2 Course specification

Course:		Power Electronics 2			
Course id:	EE308				
Number of ECTS:	5				
Teachers:		Čelanović L. Nikola, Katić A. Vladimir, Marčetić P. Darko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	0	
Precondition courses					
1. Educational goal:					
Power Electronics 2 course objective is to enable students to design and apply contemporary devices for steady supply of DC and AC consumers by converting parameters of electricity and using the powerful electronic switching components. Besides, the objective is to introduce students to the methods of computer modeling and modern software for this purpose, as well as acquisition of necessary practical experience for the application of acquired knowledge in the economy through laboratory work.					
2. Educational outcomes (acquired knowledge):					
By mastering the course Power Electronics 2, students will be able to apply principles and methods of operations of stable power supply, that is, DC and AC supply with strong electronic components, to model, design, solve and calculate these circuits, as well as to carry out computer simulations and apply commercial solution in different practical applications.					
3. Course content/structure:					
DC power supplies (DC/DC converters). Chopper-principles, types, classification, modes, mathematical models. DC power supplies-basic requirements, operating principles, types. Linear power supplies. Switching power supplies without galvanic isolation –the concept and classification. Buck converter. Boost converter. Buck/Boost converter. Čuk converter. Switching power supply with galvanic isolation –the concept and classification. Flyback and forward power supply. Push-pull power supply, and bridge and semi bridge power supply. Methods of modeling power converters. Modeling of the switching power supplies by space state averaging. Management methods and regulation of energy converters. Examples of application of power electronic devices.					
4. Teaching methods:					
Lecture method includes theoretical approach through presentation of system operation principles of DC and AC power supplies, calculation problem solution of these converters and practical work and measurements in the laboratory through the set of laboratory practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Practical part of the exam - tasks	Yes 50.00
Laboratory exercise defence		Yes	20.00		
Lecture attendance		Yes	5.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko Dokić	Energetska elektronika: pretvarači i regulatori		Elektrotehnički fakultet i Banjaluka Company, Banja Luka	2000
2,	Vladimir Katić	Energetska elektronika - zbirka rešenih zadataka		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	1998
3,	Vladimir Katić, Darko Marčetić, Dušan Graovac	Energetska elektronika - Praktikum laboratorijskih vežbi		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	2000

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Table 5.2 Course specification

Course:		Power Distribution Systems			
Course id: EE309					
Number of ECTS: 6					
Teacher:		Nimrihter D. Miroslav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The basic objective of the course is acquiring knowledge about components and configurations of distribution networks. Besides, the goal is to acquire knowledge in the filed of building the distribution network while satisfying the requirements set by the consumers, owners of distribution networks, as well as regulation agencies.					
2. Educational outcomes (acquired knowledge):					
Introduction to the basic elements of the distribution networks, introduction to the risk and quality management methods of electrical energy, introduction to the methods and economic evaluation of decisions, introduction to the human life protection methods from the dangerous voltage.					
3. Course content/structure:					
Elements of the power distribution systems (consumer areas, cable lines, primary and secondary transformer stations, distributed generators). Overhead lines and their sizing. State estimation in radial networks. Treatment of reactors in primary stations. Distribution automation (DA) and assessment of its impact on the risk of power supply. Safety of human lives and material goods. Techno-economic analysis in planning the development and maintenance of PDS. Risk management. Management by ownership of the power company.					
4. Teaching methods:					
Lectures. Auditory Practice. Consultations					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Term paper		Yes	20.00	Oral part of the exam	Yes 35.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	E.Lakervi, E.J. Holmes	Electricity Distribution Network Design		Peter Peregrinus	1995
2,	H. Lee, Willis	Power Distributoion Planning Reference Book		Marcel Dekker	1997
3,	T. Goenen	Power Distribution System Engineering		McGraw-Hill, New York	1986
4,	M. Nimrihter	Beleške sa predavanja iz Distributivnih sistema		Knjiga u elektronskoj formi, stoji u pripremi	2007
5,	M. Nimrihter, P. Đapić	Proračuni u Distributivnim Električnim Sistemima		Knjiga u elektronskoj formi	2008

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Table 5.2 Course specification

Course:		Measurement Systems in Telecommunications			
Course id:	EK301				
Number of ECTS:	4				
Teachers:		Tomić J. Josif, Vujičić V. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	1	1	0		0
Precondition courses					

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Table 5.2 Course specification

Course:		Impulse and Digital Electronic Circuits				
Course id:	EM304					
Number of ECTS:	7					
Teacher:	Nađ F. Laslo					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:	Other classes:	
3	2	1		0	0	
Precondition courses						
1. Educational goal:						
Acquiring basic knowledge in the field of application of semiconductor devices as switches, analysis and design of circuits with switches. Introduction to the methods, characteristics and application of basic digital electronic components in the most important families of logic circuits. Introduction to the most important pulse circuits. Connecting theoretical and practical knowledge about these issues.						
2. Educational outcomes (acquired knowledge):						
-ability to interpret catalogue data of semiconductor switching components -ability to design basic excitation circuits for optimum switch control -ability to analyze and design typical pulse circuits, including computer-assisted simulations and measurements in the laboratory -ability to assess the way of formation and spreading of impulse noise in electronic devices, and the basics of fighting against it -ability to analyze and design basic pulse circuits.						
3. Course content/structure:						
The most common non-sinusoidal signals (pulses). Ideal and real switches. Semiconductor devices as switches (diodes, bipolar transistors, MOSFETs, thyristors, other components); the operation method, characteristics, modeling, optimum usage. Shaping circuits (linear and nonlinear, with and without amplifier). Comparators. Characteristics of logic circuits. The most important family of logic circuits (TTL, CMOS, BiCMOS, ECL, GaAs circuits): the basic gate, characteristics, application. Digital signal propagation in transmission lines. Non-standard applications of logic circuits. Bistable circuits. Astable circuits. Monostable circuits. Linear signal generators. Function generators.						
4. Teaching methods:						
Lectures; Auditory Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes	60.00
Oral part of the exam					Yes	10.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	L.Nađ	Impulsna i digitalna elektronska kola - skripta			FTN Novi Sad	2004
2,	L.Nađ, M.Damnjanović, D.Krkliješ	Zbirka rešenih ispitnih zadataka iz impulsne elektronike			FTN, Novi Sad	2007
3,	S.Tešić, D.Vasiljević	Osnovi elektronike (Glava: Impulsna kola)			Građevinska knjiga Beograd	2005
4,	D.Živković,M.Popović	Impulsna i digitalna elektronika (Glave 1 - 10)			Nauka ETF Beograd	1992

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Table 5.2 Course specification

Course:		Power Distribution Systems			
Course id:	EE309				
Number of ECTS:	6				
Teacher:	Nimrihter D. Miroslav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The basic objective of the course is acquiring knowledge about components and configurations of distribution networks. Besides, the goal is to acquire knowledge in the filed of building the distribution network while satisfying the requirements set by the consumers, owners of distribution networks, as well as regulation agencies.					
2. Educational outcomes (acquired knowledge):					
Introduction to the basic elements of the distribution networks, introduction to the risk and quality management methods of electrical energy, introduction to the methods and economic evaluation of decisions, introduction to the human life protection methods from the dangerous voltage.					
3. Course content/structure:					
Elements of the power distribution systems (consumer areas, cable lines, primary and secondary transformer stations, distributed generators). Overhead lines and their sizing. State estimation in radial networks. Treatment of reactors in primary stations. Distribution automation (DA) and assessment of its impact on the risk of power supply. Safety of human lives and material goods. Techno-economic analysis in planning the development and maintenance of PDS. Risk management. Management by ownership of the power company.					
4. Teaching methods:					
Lectures. Auditory Practice. Consultations					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Term paper		Yes	20.00	Oral part of the exam	Yes 35.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	E.Lakervi, E.J. Holmes	Electricity Distribution Network Design		Peter Peregrinus	1995
2,	H. Lee, Willis	Power Distributoion Planning Reference Book		Marcel Dekker	1997
3,	T. Goenen	Power Distribution System Engineering		McGraw-Hill, New York	1986
4,	M. Nimrihter	Beleške sa predavanja iz Distributivnih sistema		Knjiga u elektronskoj formi, stoji u pripremi	2007
5,	M. Nimrihter, P. Đapić	Proračuni u Distributivnim Električnim Sistemima		Knjiga u elektronskoj formi	1999

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Table 5.2 Course specification

Course:		Digital Image Processing				
Course id: EK421						
Number of ECTS: 5						
Teachers:		Crnojević S. Vladimir, Sečujski S. Milan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	2		0	0
Precondition courses		None				
1. Educational goal:						
Introduction to the basic concepts in the field of digital image processing; introduction to the contemporary methods in digital image processing.						
2. Educational outcomes (acquired knowledge):						
An overview of principles of contemporary methods for digital image processing. Ability to understand the basic principles and methods used in digital image processing, possibility of independent realization of simple systems for digital image processing, as well as possibility of simple extension of knowledge by working on a specific problem.						
3. Course content/structure:						
Introduction to digital image processing. Basic concepts in image processing. Image improvement in space domain. Image improvement in frequency domain. Image restoration. Color image processing. Image compression.						
4. Teaching methods:						
Lectures; Computer Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project defence			Yes	30.00	Theoretical part of the exam	Yes 70.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Rafael Gonzalez, Richard Woods		Digital Image Processing		2nd Ed.	2002

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Table 5.2 Course specification

Course:		Discrete-time systems and signals			
Course id:	EM302A				
Number of ECTS:	6				
Teacher:		Novak O. Ladislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	1	0	1	
Precondition courses		None			
1. Educational goal:					
Providing a general insight into fundamental aspects of discrete system theory including algorithms for analysis of linear time invariant discrete systems in the time and complex domain, digital filters and hardware implementation of discrete systems.					
2. Educational outcomes (acquired knowledge):					
The student who successfully completes this course will gain an insight into basic concepts of signal and system theories of discrete time which includes: - handling signals with discrete time - understanding general description of discrete systems, and their classification and qualitative properties - an overview of algorithms for the analysis of linear time-invariant discrete systems in time and complex domain and the concept of digital filtering, as well as techniques and procedures for hardware implementation of general discrete systems.					
3. Course content/structure:					
The concept of discrete time axis, the concept of signals with discrete time and operations with signals with discrete time. Fundamental aspects of the signal theory with discrete time in the arbitrary field. Operations with signals with discrete time in the field of real numbers. Bilateral Z-transformation, Unilateral Z-transformation, Discrete Fourier transformation. Fundamental aspects of the discrete system theory, description of the terminal behavior of the discrete system elements, their classification and connection. Linear time invariant discrete systems: analysis in the time domain and stability. Analysis of the linear time invariant discrete systems using unilateral Z-transformations and discrete Fourier transformations. The concepts of filtering, introduction to classification and synthesis of digital filters. Hardware implementation of discrete systems.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	10.00	Written part of the exam - tasks and theory	Yes 70.00
Lecture attendance		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	L. Novak	Diskretni sistemi - skripte		FTN, Novi Sad	2000
2,	R. Struharik	Laboratorijske vežbe iz diskretnih sistema - skripte		FTN, Novi Sad	2001
3.	Mrinal Mandal, Amir Asif	Continuous and Discrete Time Signals and Systems		Cambridge University Press	2007

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Table 5.2 Course specification

Course:		Logic Design of Computer Systems 2			
Course id:	E230				
Number of ECTS:	8				
Teacher:	Atlagić S. Branislav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	0	3	0	1	
Precondition courses					
1. Educational goal:					
Students learn about the basics of computer systems and are trained to design a central processor and realize simple assembler programs.					
2. Educational outcomes (acquired knowledge):					
Knowledge about basic notions, standards and technologies in the field of computer systems as well as ability to design and realize simple computer structures.					
3. Course content/structure:					
Introduction (definition of structure, single processor and multiprocessor structures, functional units, methods of connecting functional units). Central processor design (signal timing, address regimes, machine language, description of processor in VHDL, processor management). Memory design (RAM, DRAM, FLASH memory, methods for increasing memory reliability, associative memory, fast memory, hidden memory, memory management) Input- Output subsystem (methods and techniques of U/I subsystem communication with CPU, peripheral units, input output management). Transmission lines between functional units (standards, ISA, PCI, etc). Computer systems with multiple functional units. Local area networks as multiprocessor structures. Examples of computer structure design with VHDL (microcontroller, ALU) Assembler language, Macroassembler language, Machine –program connection. Examples of practical programming of devices.					
4. Teaching methods:					
Lectures. Tutorials. Computer practice. Consultations. Students attend lectures and computer practice classes. At the end of the semester the acquired practical knowledge is assessed at the regular examination. The examination is taken using computer and suitable literature.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Coloquium exam	No 40.00
				Theoretical part of the exam	Yes 40.00
				Practical part of the exam - tasks	Yes 30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	V.Kovačević	LOGIČKO PROJEKTOVANJE RAČUNARSKIH SISTEMA		Univerzitet u Novom Sadu	1996
2,	Branislav Atlagić	PROJEKTOVANJE RAČUNARSKIH SISTEMA, skripta			1996
3,	Zoran Krajačević	PRAKTIKUM LABORATORIJSKIH VEŽBI			1996

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Table 5.2 Course specification

Course:		English in Engineering 2			
Course id:	EJEI2				
Number of ECTS:	2				
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranji F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	0	0	0	
Precondition courses					
1. Educational goal:					
Further mastering the vocabulary related to profession and major and developing the ability to understand texts from different sources. Acquiring complex sentence structures typical for the professional language.					
2. Educational outcomes (acquired knowledge):					
Students possess certain vocabulary present in the scientific technical discourse and are able to use it properly. They are able to read literature related to their field of study, as well as other different forms of technical communication: instructions, brochures, reports etc. In the communication with colleagues they are able to understand and use typical constructions and collocations etc.					
3. Course content/structure:					
Processing of professional texts in English and other forms of technical communication and analysis of their characteristics. Extending the professional vocabulary while adopting common abbreviations. The formation and interpretation of abbreviations. The use of modal verbs and other phrasal verbs. The use of infinitive. The use of -ing clause for expressing the action results.					
4. Teaching methods:					
Lectures are organized around processing certain number of professional texts. Besides traditional exercises for checking the understanding, students solve certain number of exercises using the so called task based approach during the lectures. Typical constructions, expression, phrasal verbs etc. are practiced through communication.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test		Yes	10.00	Oral part of the exam	Yes 35.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	A.J. Herbert	The Structure of Technical English (odabrana poglavlja)		Longman	1989
2,	E. and N. Glendinning	Oxford English for Electrical and Mechanical Engineering (odabrana poglavlja)		OUP	2001
3,	Grupa autora	Oxford English - Serbian Dictionary		OUP	2006
4,	John Eastwood	Oxford Practice Grammar Intermediate		OUP	2006
5,	Popić i dr.	Naučno tehnički rečnik		Privredni pregled, Beograd	1989

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Table 5.2 Course specification

Course:		Industrial systems and protocols			
Course id: EEI310					
Number of ECTS: 7					
Teacher:		Marčetić P. Darko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses		None			
1. Educational goal:					
Introducing students to modern information technology and methods of application of those technologies while monitoring and control of various control processes. Acquiring basic knowledge about microcomputer for operation in industrial environments as well as about standard ways of exchanging data within the industrial system.					
2. Educational outcomes (acquired knowledge):					
1) Good knowledge of elementary microcomputer operation and operation of industrial devices and microcomputer based systems, 2) Excellent knowledge of the most commonly used industrial communication protocols, 3) as well as introduction to the basic principles for connecting devices to Internet.					
3. Course content/structure:					
1. Elementary microcomputer (internal architecture, working principle, organization of programmes, types of communication ports) 2. Programmable Logic Controllers – PLC (principle of operation I/O, expansion for support of modern information technologies) 3. Industrial communication protocols of lower order (asynchronous data: RS-232 and RS-458, synchronous data: SPI and I2C) 4. Industrial communication protocols of higher order (MODBUS, PROFIBUS, Industrial Ethernet). 5. Networking of computers, PLC controllers and other equipment (communication with sensors and actuators – e.g. Multimeter Siemens SIMEAS Q, SCADA system for monitoring and acquisition of measured values) 6. Basic principles of Internet connection (LAN and Ethernet applications, Basic Internet Protocol TCP/IP)					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Coloquium exam	Yes 40.00
Laboratory exercise attendance		Yes	5.00	Oral part of the exam	Yes 30.00
Test		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Nebojša Matić	Uvod u industrijske PLC kontrolere		Mikroelektronika	2007

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Table 5.2 Course specification

Course:		Microprocessor based measurement and data acquisition systems 2			
Course id:	EIDMS2				
Number of ECTS:	7				
Teachers:		Sovilj M. Platon, Bojković J. Gordana, Mitrović Lj. Zoran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
The acquisition of knowledge in the field of application, design and development of microprocessor based measurement and data acquisition systems.					
2. Educational outcomes (acquired knowledge):					
understanding of the methods of design and development of microprocessor based measurement and data acquisition systems; the ability to work in interdisciplinary teams for design and development of microprocessor based measurement and data acquisition systems; the ability to search the literature and other forms of information in the field of design and development of microprocessor based measurement and data acquisition systems and the ability of the presentation of research results;					
3. Course content/structure:					
Lifecycle of microprocessor based measurement and data acquisition systems. Requirements analysis and creation of functional specifications for microprocessor based measurement and data acquisition systems. Methods of design and development of microprocessor based measurement and data acquisition systems. Programming languages for the development of firmware in microprocessor based measurement and data acquisition systems. Integrated development environment for the design and development of microprocessor based measurement and data acquisition systems. Testing and debugging microprocessor based measurement and data acquisition systems. Preparing documents for microprocessor based measurement and data acquisition systems. Practicum in the design and development of hardware and firmware of microprocessor based measurement and data acquisition systems. Development of measurement and acquisition systems based on PSoC microcontroller families. Development of measurement and acquisition systems based on ARM microcontroller families. Development of measurement and acquisition systems based on AVR microcontroller families. Development of measurement and acquisition systems based on 8051 microcontroller families.					
4. Teaching methods:					
Lectures, auditory exercises, laboratory exercises, consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Laboratory exercise defence		Yes	30.00		
Lecture attendance		Yes	5.00		
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. P., S. MacKay	Practical Data Acquisition for Instrumentation and Control Systems		Newnes	2003
2,	Robert Ashby	Designers Guide to the Cypress PSoC		Newnes	2005
3,	Steven F. Barrett, Daniel J. Pack	Microcontrollers Fundamentals for Engineers and Scientists		Morgan & Claypool	2006
4,	K. James	PC Interfacing and Data Acquisition: Techniques for Measurement, Instrumentation and Control		Newnes	2000
5,	N. V. Kirianaki	Data Acquisition and Signal Processing for Smart Sensors		J. Wiley	2002

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Table 5.2 Course specification

Course:		Electronic Components in Instrumentation					
Course id: EIEKI							
Number of ECTS: 6							
Teachers:		Milovančev S. Slobodan, Pejić V. Dragan, Tomić J. Josif					
Course status:		Elective					
Number of active teaching classes (weekly)							
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:
2		0		2		0	0
Precondition courses None							
1. Educational goal:							
Acquiring basic knowledge in the field of elements of electronic measurement devices.							
2. Educational outcomes (acquired knowledge):							
Introduction to the real elements of the electronic measurement devices. Ability to design electronic measurement devices considering parasitic effects and imperfections of components used.							
3. Course content/structure:							
Model of real components of electronic measurement devices. Resistor. Capacitor. Coil. Transformer. Electromechanical components. Piezoelectric devices. Electrical contacts, switches and connectors. The real characteristics of elements with P-N junction – diodes and transistors. Fundamemntal parameters of basic active electronic components: operational amplifier, comparator, voltage regulator, A/D and D/A converters. Printed circuit board. Hidden scheme. Parasitic effects and their impact on the quality of measurements. Production technology of electronic and microelectronic components. Reliability of electronic and microelectronic elements and circuits. Special purpose devices (thyristors, LEDs, photodiodes, Hall&Hall elements, tunnel and Zener diodes, HEMT, MODFET, semiconductor lasers).							
4. Teaching methods:							
Lectures. Laboratory Practice.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence			Yes	30.00	Written part of the exam - tasks and theory	Yes	40.00
Oral part of the exam						Yes	30.00
Literature							
Ord.	Author		Title			Publisher	Year
1,	D. Tjapkin, S. Širbegović, S. Ristić, R. Ramović		Komponente i konstruisanje elektronskih uređaja			Nauka, Beograd	1992
2,	Delton Horn		Electronic Components: A Complete Reference for Project Builders			McGraw-Hill/TAB Electronics	1991
3,	Paul Horowitz, Winfield Hill		The Art of electronics, 2nd edition			Cambridge University Press	1989

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Table 5.2 Course specification

Course:		Measurements of non-electrical quantities			
Course id:	EIMNV				
Number of ECTS:	7				
Teachers:		Milovančev S. Slobodan, Vujičić V. Vladimir, Župunski Ž. Ivan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge about active and passive transducers and circuits for measurement of non-electrical quantities. Gaining knowledge about the dynamics, span and timing of non-electrical quantities in industry and biomedical measurements. Training for proper selection of existing and design of dedicated transducers for sensors of non-electrical quantities.					
2. Educational outcomes (acquired knowledge):					
Understanding of functioning and application of transducers for measurement of various non-electrical quantities; work with specific measurement circuits that can adapt to a variety of sensors, amplifiers, auxiliary power supplies and matched output instruments; the ability to work in interdisciplinary teams to solve problems in mechanics, mechanical engineering, chemistry, medicine and other science; the ability to search the literature and development of individual transducers.					
3. Course content/structure:					
General on measurement of non-electrical quantities, measuring chain, accuracy of transducers; division of transducers, technical parameters and characteristics. Measurement circuits for different transducers, measuring amplifiers, auxiliary power sources, matching of the output instruments, strain gauges, analysis of simple and complex mechanical stress, measurement of force, pressure, torque and standing waves, measurement of temperature with thermocouples and various resistive transducers, cold point compensation, two-wire and three-wire connection with the rest of the measuring bridge, pyrometers, integrated temperature gauges; Analysis of gas mixtures, the measurement of the oxygen, hydrogen, carbon monoxide and carbon dioxide, environmental problems, inductive and capacitive gauges, measuring of displacement, eccentricity of the shaft, small thickness, differential pressure. Measurement of chemical quantities, pH value, electrolytic conductivity, measurement of humidity and moisture of air, grain, wood. Measurement of flow, mass and volume flow, anemometers (hot wire, Doppler, laser), turbine meter. Measurement of vibration, sound and noise, piezoelectric transducers, inductive meters, vibrating strings. Measurement of light quantities, photo cells, photoelement, photo diode, photo resistor, measuring of the luminous flux and brightness, film thickness measurement, rPM measurement. Measurement of parameters of radiation, counters, dosimeters, photomultipliers, scintillation counter application in medicine.					
4. Teaching methods:					
Lectures, auditory practice, laboratory practice, consultations, development and fabrication of transducer.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 40.00
Oral part of the exam				Yes	30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Milovančev Slobodan	Zbirka zadatka iz električnih merenja neelektričnih veličina		FTN Novi Sad	2001
2,	Stanković Dragan	Fizičko tehnička merenja		Tehnička knjiga Beograd	2003
3,	Neubert Hermann	Instrument Transducers		Claredon Press Oxford	1975
4,	L.F.Adams	Engineering Measurements and Instrumentation		The English Universities Press	1975
5,	Benedict Robert	Fundamentals of Temperature, Pressure and Flow Measurements		John Wiley & Sons, New York	1972

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Table 5.2 Course specification

Course:		Digital Microcontrollers				
Course id:	EM305A					
Number of ECTS:	6					
Teachers:	Malbaša D. Veljko, Mezei D. Ivan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	0	2	0	0		
Precondition courses						
1. Educational goal:						
Enabling students to design hardware and programme support to industrial microcomputer systems for implementation into other technical systems based on the given specifications.						
2. Educational outcomes (acquired knowledge):						
The student who successfully completes this course will be able:						
-to analyze specification and hardware of the given microcomputer system for the implementation into other technical systems and to understand the interaction between the system and its surrounding and the interaction between hardware and programme support of embedded systems.						
- to design, simulate and implement hardware of the microcomputer system for the implementation into other technical systems.						
- to apply contemporary methods of modeling, design, testing and implementation of programme support to embedded microcomputer systems.						
- to apply contemporary software tools in design and implementation of programme support to the embedded microcomputer systems.						
- to design programme support of embedded microcomputer system for real-time work based on the given specifications.						
3. Course content/structure:						
Structure of the contemporary microcontrollers. Structure of the microcomputer systems based on the microcontrollers and designed for the implementation into other technical embedded systems. Interaction between embedded microcomputer systems and the surrounding. Real-time operation. Structure of the programme support of embedded microcomputer systems. Design of the application programmes for the real-time operation of embedded systems. Design of the system support for the real-time operation. Integration and testing of the embedded systems in real-time. Application of software tools in design, simulation, testing and implementation of programme support of embedded microcomputer systems based on microcontrollers.						
4. Teaching methods:						
Lectures; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence		Yes	20.00	Practical part of the exam - tasks	Yes	50.00
Test		Yes	10.00			
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	R. Grehan, R. Moote, I. Cyliax	Real Time Programming		Addison Wesley		1998
2,	M. Nikolić, K. Babković	Uputstvo za laboratorijske vežbe iz predmeta Digitalni mikrokontroleri (skripta)				2008

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Table 5.2 Course specification

Course:		Automatic Control Systems in Electronics			
Course id:	EMSAU1				
Number of ECTS:	6				
Teachers:		Čongradac D. Velimir, Kulić J. Filip, Petrovački Lj. Nebojša			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Introducing students to the theoretical and practical basis of analysis and synthesis of the automatic control system.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge can be used in solving specific engineering problems, and also represent the basis for further understanding of professional courses.					
3. Course content/structure:					
Basic notions and principles of automatic control systems. Mathematical description of continual linear and non linear systems.Laplace transform. Block diagram models. Signal flow graph models. Quality evaluation and of control in stationary and transition regime. Analysis of system stability using analytical methods. Root locus. Analysis and syntheses of system in frequency domain. Nyquist stability criteria, Bode method, Concept of space of system state. Choice and adjusting of parameters of industrial regulators. PID regulators, Elements of digital control systems. Introduction to computer application in control.					
4. Teaching methods:					
Lectures; Computing (N), Laboratory (L), Computer (C) and Computer-Laboratory (CL) Practice; Consultations. Part of the course which represents a logical whole can be passed in the form of colloquium. Colloquium and the examination are oral and written. Colloquium and the written part of the examination are taken in the written from, while oral part of the examination is oral. Course grade is formed based on the success in test, computer-laboratory practice and written and oral part of the examination.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		No	10.00	Oral part of the exam	Yes 20.00
Test		Yes	40.00	Practical part of the exam - tasks	Yes 40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna knjiga, Beograd	1996
2,	. B.Kovačević, Ž.Đurović	Sistemi automatskog upravljanja -zbornik rešenih zadataka		Nauka, Beograd	1995
3,	D. Kukolj i ostali	Osnove klasične teorije automatskog upravljanja kroz rešene primere		Somel, Sombor	1995
4,	D. Kukolj, F. Kulić	Projektovanje sistema automatskog upravljanja u prostoru stanja		Univerzitet u Novom Sadu, Novi Sad	1995
5,	Richard C. Dorf; Robert H. Bishop	Modern Control Systems		Addison-Wesley	1998

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Table 5.2 Course specification

Course:		Real Time System Programming 1				
Course id: E23A2						
Number of ECTS: 6						
Teacher:		Popović V. Miroslav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses		None				
1. Educational goal:						
Teaching students parallel programming of multicore processors and design of software tools for real time systems.						
2. Educational outcomes (acquired knowledge):						
Ability to write parallel programs for multicore processors by using parallel programming patterns, models, and tools, and designing software tools for real-time systems, including assembler, macro assembler, compiler, etc.						
3. Course content/structure:						
Introduction. Part 1: Parallel Programming (Program analysis, Parallel programming design patterns, Parallel programming models, Parallel programming tools). Part 2: Software tools design (Assembler, Macro assembler, Formal systems, Compiler, Loader, Integrated development environment, Highly optimizing compilers, Linker, Compactor, Simulator, Debugger).						
4. Teaching methods:						
Lectures, tutorials, computer practice classes, consultations.						
During the semester students complete laboratory practice tasks						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise defence		Yes	70.00	Theoretical part of the exam		Yes 30.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	V. Kovačević i M. Popović	Sistemska programska podrška u realnom vremenu 1: Programski alati i paralelno programiranje			FTN Izdavaštvo, Novi Sad	2011

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Table 5.2 Course specification

Course:		Computer Communication			
Course id:	EK313				
Number of ECTS:	6				
Teacher:	Bajić D. Dragana				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
3	2	1	0		0
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge about standard methods of data transfer and linking the theoretical background in this field with specific solutions applied in practice.					
2. Educational outcomes (acquired knowledge):					
Good knowledge of the principles of communication protocol functioning by OSI reference mode, as well as the practical version of protocols implemented in LAN and WAN networks, with an emphasis on the TCP/IP protocols (Internet).					
3. Course content/structure:					
-Introduction. Analog and digital transfer. Transfer medium. -Asynchronous and synchronous transmission. -OSI reference model. -Physical level: RS-232. a mode and DSL transmission. -Data level: the error control and flow control: ARQ mechanisms. - Packet-switched networks. Routing. Routing protocols: RIP, OSPF, BGP. Convection control. LAN/MAN technologies. MAC protocols: IEEE 802.3, WLAN.LAN topologies and devices. Hub, switch, router. TCP/IP protocol stack. IP protocol. - Transport layer protocols TCP, UDP. -Network applications (HTTP, e-mail, VoIP...).					
Cryptography and protection of computer networks.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project task		Yes	30.00	Written part of the exam - tasks and theory	Yes 70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	A. Tanenbaum: A. Tanenbaum	Computer Networks		4th Edition, Prentice Hall	2003
2,	Alberto-Leon Garcia, Indira Widjaja	Communication Networks		2nd. Edition, McGraw-Hill	2000
3,	Douglas Comer	Internetworking with TCP/IP vol.1		prevod na srpski, CET Biblioteka	2002
4,	Endru S. Tanenbaum	Računarske mreže, prevod četvrtog izdanja (Tanenbaum)		Mikroknjiiga, ISBN: 86-7555-265-3	2005

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Table 5.2 Course specification

Course:		Characterization and Testing of Microelectronic Circuits				
Course id:	EM421					
Number of ECTS:	6					
Teacher:	Stojanović M. Goran					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	0	2	0	0		
Precondition courses						
1. Educational goal:						
Acquiring practical knowledge in the field of characterization and testing of microelectronic circuits, experiments with measurement instruments in the field of microelectronics.						
2. Educational outcomes (acquired knowledge):						
<ul style="list-style-type: none">- ability to record characteristics of semi-conductor components using the curve tracers- ability to practically test passive components (resistors, capacitors, inductors)- ability to measure s/z/y-parameters, microelectronic components using the Vector Network Analyzer- ability to monitor special effects on silicon wafer using the Wafer Probe Station						
3. Course content/structure:						
Introduction. Methods for testing microelectronic components and circuits. Recording characteristics of semi-conductor components (diodes, Zener diodes, transistors, MOSFET). Practical work with the tracer Tektronix Curve Tracer (type 576). Characterization and testing of passive components (resistors, capacitors, inductors). Practical work with HP 4277A LCZ meter. Measurement of s/z/y parameters, measurement of Q-factor, measurement of reflection/transmission coefficient. Practical work with the Vector Network Analyzer Agilent E5071B. Measurement on wafer. Practical work with Wafer Probe Station. Monitoring special effects on the chip using a microscope.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence		Yes	40.00	Coloquium exam	Yes	20.00
Oral part of the exam					Yes	40.00
Literature						
Ord.	Author	Title		Publisher		Year
1,	Goran Stojanović, Duka Ljubiša	Karakterizacija i testiranje elektronskih komponenti korišćenjem trasera krivih i LCZ metra - skripta		FTN, Novi Sad		2005
2,	User manual	Type 576 Curve Tracer		Tektronix, Inc.		1987
3,	User manual	4277A LCZ Meter		HEWLETT PACKARD		1986

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Table 5.2 Course specification

Course:		Materials and fabrication technologies in medical devices			
Course id:	BMI107				
Number of ECTS:	5				
Teachers:		Živanov D. Ljiljana, Crnojević-Bengin B. Vesna, Stojanović M. Goran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	2	0		1
Precondition courses		None			
1. Educational goal:					
Students will be qualified to understand properties of often used materials in biomedicine as well as application of these materials in modern medical devices.					
2. Educational outcomes (acquired knowledge):					
- understanding properties and application areas of most often used materials in biomedicine - an ability to apply bioceramics, artificial materials, composites, etc. in medicine and stomatology - an ability to manufacture components and systems based on biomaterials using LTCC technology - an ability to manufacture flexible electronic components applying organic and nonorganic materials					
3. Course content/structure:					
- division (conventional) of electronic materials and their properties - fundamentals of artificial electromagnetic materials and their application in medicine - overview of materials important for the biomedicine field - bioceramics (barium-titanate for ultrasound probes, ferrites for suppression of noises in medical devices, superconductive magnets for application in magnetic resonance imaging) - biomedical composites - biopolymers (teflon as an isolated material for probes in medicine, polymeric wireless implants for measuring blood sugar) - biomaterials for cardiovascular applications (Ag/AgCl for electrodes) - biomaterials for dental application - biomaterials for orthopedic application - biomaterials for tissue reparation - overview of available fabrication technologies and comparison of characteristics and application possibilities - LTCC technology for manufacturing sensors in biomedicine, lab-on-chip, etc. - PCB technology and softwares for design circuits for PCB - technologies which can use flexible substrates (ink-jet technology for realization of various implantable sensors)					
4. Teaching methods:					
Lectures. Auditory exercises. Laboratory exercises. Consultations. Experimental projects.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Final exam - part one	Yes 35.00
				Final exam - part two	Yes 35.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Goran Stojanović, Ljiljana Živanov	Materijali u elektrotehnici		FTN izdavaštvo	2007
2,	H. L. Kwok	Electronic materials		PWS Publishing Company	1997
3,	Rolf E. Hummel	Electronic Properties of Materials		Springer, 3rd edition	2001
4,	Lj. Živanov, G. Stojanović, A. Marić, G. Radosavljević	Materijali u elektrotehnici, zbirka rešenih zadataka		Univerzitet u Novom Sadu, Fakultet tehničkih nauka	2007

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Table 5.2 Course specification

Course:		Web Programming			
Course id:	E239A				
Number of ECTS:	6				
Teachers:		Sladić S. Goran, Vidaković P. Milan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Students learn to solve problems in the field of Web programming, which covers knowledge of HTTP protocols, Server and JSP technology as well As organization and architecture of web applications.					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge forms the basis for the future engineering courses.					
3. Course content/structure:					
Fundamentals of HTML. Fundamentals of JAVA programming language. Input/output subsystem. Concurrent programming. Network programming. Client – server architecture. HTTP protocol fundamentals. Fundamentals of servlet technology. Session management. POST method and file upload. JSP basics. JSP expressions. JSP scriptlets. JSP declarations. JSP directives. JavaBeans. Component visibility.					
4. Teaching methods:					
Lectures. Computer practice. Consultations. Theoretical part of the course if examined orally. Practical part of the examination is taken in the computer laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	50.00	Oral part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	B. Milosavljević, M. Vidaković	Java i Internet programiranje		Grupa za informacione tehnologije, Novi Sad	2002
2,	B. Eckel	Misliti na Javi		Mikro knjiga, Beograd	2002
3,	C. Horstmann, G. Cornell	Core Java 2V		Sun Microsystems Press, Santa Clara	2005
4,	Danilo Obradović	Osnovi računarstva		Stylos	2003

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Table 5.2 Course specification

Course:		Application of Sensors and Actuators			
Course id:	H311				
Number of ECTS:	6				
Teachers:		Nađ F. Laslo, Živanov D. Ljiljana, Stankovski V. Stevan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the field of sensors and actuators and their application in industry and mechatronics.					
2. Educational outcomes (acquired knowledge):					
<ul style="list-style-type: none">- Understanding the basic principles of various sensors and actuators, applicable in electronic control circuits in industry and mechatronics- Ability to understand and interpret technical properties and the right selections of sensors and actuators from the manufacturer manuals for the specific application in industry and mechatronics.-Ability to install and successfully apply sensors or actuators in some industrial process- Ability to design electronic circuits for signal processing of simple sensors (pressure, temperature or flow rate...)- Ability to design electronic circuits for excitation and management of simple actuators (motors, valves...)					
3. Course content/structure:					
Measurement principles and sensor and actuator techniques. Technical properties of sensors and actuators. Methods of sensor and actuator classification. Types of sensors. Sensor application (sensors of linear and angular displacement, speed sensors, accelerometers, force and torque; pressure sensors, level and flow; sensors for measuring temperature and humidity, proximity sensors, tactile sensors). Vision sensors. Types of actuators (electromechanical, hydraulic, pneumatic) and their applications (light modulators and detectors; flow controllers, switches, valves, motors, electromagnets). Packaging (housing). Modern integrated micro-actuators (positioners, optical elements).					
4. Teaching methods:					
Lectures. Laboratory Practice. Consultations. The student can take a colloquium from parts of the course which represent a logical whole (sensors, actuators). He/she can do a detailed project in sensor and/or actuator application within some electronic or mechatronic device. In that case, the final examination consists of the oral project defense and answers to theoretical questions.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 70.00
Coloquium exam				No	20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	M.Popović	Senzori i merenja		VEŠ, Beograd	1995
2,	M.Popović	Senzori u robotici		VEŠ, Beograd	1994
3,	D. Shetty, R. A. Kolk	Mechatronics System Design		PWS	1997
4,	Ljiljana Živanov, Laslo Nađ	Primena senzora i aktuatora		Skripta, Fakuzltet tehničkih nauka	2009

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Table 5.2 Course specification

Course:		Selected Chapters in Physical Architecture Design			
Course id:	E244				
Number of ECTS:	6				
Teachers:		Teslić Đ. Nikola, Pjevalica U. Nebojša			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses					
1. Educational goal:					
Students will be able to design, realize and test complex digital systems by learning about selected chapters in physical architecture design.					
2. Educational outcomes (acquired knowledge):					
Ability to design, realize and test physical architecture of complex digital systems.					
3. Course content/structure:					
Introduction to the architecture of computer system (specific characteristics of computer system design, computer system components – classification, basic properties, catalogue data, types of cases, choice and procurement). Signal extension, time relations and temperature aspects in computer systems (problems of reflexion, tact distribution, power supply distribution, wave forms, interference reduction methods. Printed boards (basic notions, component mounting, cooling, recommendations for printed boards with high frequency tact). Connection circuits in computer systems (standards, components, application of programmable sequential networks). Some aspects of designing complex computer systems and typical problems (multi-access memories, speed converters and level converters). Problems of real time system software (device handlers). Basic techniques for studying physical architecture of computer systems. Problems in power supply of computer systems (mains adapter, switch converters, linear regulators, chemical sources, multiple source supply, calculation of computer system supply).					
4. Teaching methods:					
Lectures. Tutorials. Computer practice. Consultations. The teaching is divided into two blocks. In the first block students attend theoretical classes during the mornings. In the afternoon they attend computer practice classes. During the second block students work on their examination papers.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Theoretical part of the exam	Yes 30.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Kovačević, Z. Krajačević	Odabrana poglavlja projektovanja fizičke arhitekture, skripte			2005

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Table 5.2 Course specification

Course:		Electrical Machines in Automatic Control Systems			
Course id:	E2315				
Number of ECTS:	6				
Teachers:		Oros V. Đura, Kulić J. Filip			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Students gain knowledge about the basic principles of electric machines that are used in systems of automatic control					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge is used in the solution of specific engineering problems such as the design of control systems, implementation and maintenance.					
3. Course content/structure:					
basics of electromechanical conversion and principles of operation of rotating electrical machines. Three-phase systems. DC motors, AC motors (induction, single-phase and three-phase), a permanent magnet motor, stepper and servo motors. Feeding of motors from the source with variable voltage and frequency.					
4. Teaching methods:					
Lectures, calculation, computer and laboratory practice, consultations. The exam is written and oral with the written part being the prerequisite for the oral. The final grade is formed on the bases of the colloquium, homework assignments and the written and oral part of the exam.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	10.00	Theoretical part of the exam	Yes 30.00
Test		Yes	10.00	Practical part of the exam - tasks	Yes 40.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Theodor Wildy	ELECTRICAL MACHINES, DRIVES, AND POWER SYSTEMS			2006
2,	Firoozian, Riazollah	Servo Motors and Industrial Control Theory		Springer	2009
3,	grupa autora	Skripte za predmet			2012

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Table 5.2 Course specification

Course:		Electrical Substations 1			
Course id:	EE0400				
Number of ECTS:	7				
Teacher:		Salamon D. Dragutin			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
The course objective is introduction to the place and role of electrical substations in the power system, calculation of short circuit current and values necessary for dimensioning of plant elements and their basic characteristics. Introduction to principle schemes of electrical substations and their selection, as well as the role of grounding and its dimensioning.					
2. Educational outcomes (acquired knowledge):					
Knowledge of methods for calculation of short circuit current. Knowledge of ways of equipment dimensioning in electrical substations. Knowledge of the principles of designing of electrical substations up to the level of concept design.					
3. Course content/structure:					
Calculation of short circuit current and their characteristic values. Dimensioning of electrical substations elements and their selection. Principle schemes and disposition of electrical substations. Dimensioning of grounding.					
4. Teaching methods:					
Lectures. Auditory practice. Computer practice. Computer practice classes are performed according to the assignment for the electrical substations project and in the end a report which is awarded grade is handed in.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 40.00
Exercise attendance		Yes	5.00	Oral part of the exam	Yes 30.00
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. Nahman, V. Mijailović	Visokonaponska postrojenja		Beopres	2000
2,	H. Požar	Rasklopna postrojenja		Školska knjiga, Zagreb	1984
3,	Lj. Gerić, P. Đapić	Razvodna postrojenja, zbirka zadataka		FTN	2006
4,	J. Nahman	Struje kratkih spojeva u elektroenergetskim sistemima		ETF – Nauka, Beograd	1996

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Table 5.2 Course specification

Course:		Electric Machines 3			
Course id: EE401					
Number of ECTS: 6					
Teacher:		Vasić V. Veran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the field of electromechanical energy conversion, electric machines, power devices, electronics and electrical drives.					
2. Educational outcomes (acquired knowledge):					
- ability to understand basic principles of electromechanical energy conversion					
-ability to understand basic properties and operation methods of rotary machines					
3. Course content/structure:					
Rotating magnetic field. Asynchronous machines: parts and construction, operating principles, applications, characteristics, ignition, speed control. Single-phase asynchronous motors: parts and construction, application, characteristics. Transients in transformers.					
4. Teaching methods:					
The course consists of lectures and practice. In lectures, contemporary illustrations for intuitive understanding of the taught matter are used. In order to completely master the taught matter, problems are solved in practice, which helps students to independently solve problems from engineering practice. Part of the practice is carried out in the laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Lecture attendance		Yes	5.00	Coloquium exam	Yes 20.00
Test		Yes	20.00	Coloquium exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Vladan Vučković	Opšta teorija električnih mašina		Nauka Beograd	1992
2,	Ion Boldea, S.A.Nasar	Electric drives		CRC Press, New York	1999
3,	I. Boldea, S. Naser	The Induction Machine Handbook		CRC Pres	2002

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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	

Table 5.2 Course specification

Course:		Metrology				
Course id:	EIMET					
Number of ECTS:	5					
Teacher:		Spasić-Jokić M. Vesna				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		3	0	0		0
Precondition courses						

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Table 5.2 Course specification

Course:		Development Tools in Telecommunications and Signal Processing 2			
Course id:	EK450				
Number of ECTS:	5				
Teacher:		Lončar-Turukalo G. Tatjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	2	0		0
Precondition courses		None			
1. Educational goal:					
Acquisition of basic knowledge about the nature and management of distributed processes in mobile phone networks, wireless sensor networks, LAN, WAN and WLAN networks. Identification and resolving the problems of realization of robust and flexible distributed applications and network protocols for its support.					
2. Educational outcomes (acquired knowledge):					
The full understanding and consideration of the issues of scalability, security, and management of communications and computer networks as distributed systems. The ability to implement distributed applications in the network environment.					
3. Course content/structure:					
Development of protocols and systems architecture necessary to implement scalable, functional, and easily manageable network Messaging in the wireless and WAN environments, solutions for routing, multicast and reliable transmission in networks that are rapidly changing the structure, availability and bandwidth availability. Solutions for timely and reliable delivery of services in real time Security principles: analysis of possible threats, access control (authentication and authorization), the principles of authorization (access rules, public key cryptography, digital signature) The basic conceptual solutions will be illustrated by practical examples.					
4. Teaching methods:					
Lectures, computer excersises					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	20.00	Practical part of the exam - tasks	Yes 30.00
Project		Yes	50.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Bertsekas, R. Gallager	Data Networks (http://web.mit.edu/dimitrib/www/datanets.html)		Prentice Hall	1992
2,	Sudip Misra, Subhas Chandra Misra, Isaac Woungang	Selected Topics in Communication Networks and Distributed Systems		World Scientific	2010
3,	A. S. Tanenbaum, M. van Steen	Distributed systems: principles and paradigms		Perason Prentice Hall	2007

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Table 5.2 Course specification

Course:		Electric Motor Drives			
Course id:	EE418				
Number of ECTS:	4				
Teacher:	Jeftenić I. Borislav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
The aims of the course are: 1. To understand the basic concepts of an electric motor drives. 2. To provide a general approach to an understanding of the performance and control techniques of various electric motor drive systems. 2. To understand characteristics and operating principle of power converters for feeding electric motor drives.					
2. Educational outcomes (acquired knowledge):					
Upon successful completion of this course, students will be able to: 1. Recognize the structure of electric drive systems in various applications. 2. Analyze systems with electric drives. 3. Analyze the performance of electrical machines in different modes of operation. 4. Evaluate the power and torque requirements placed by mechanical systems on electric drives. 5. Specify appropriate power electronic converters in drive applications. 6. Solve various electric motor drive problems.					
3. Course content/structure:					
Introduction. Classification of electric motor drives. Basic elements of an electric motor drives. Static and dynamic conditions of a drive system. Stability considerations of electrical drive. Selection of drive motors with regard to load conditions. D.C. motor drives: separately excited D.C. motor and series D.C. motor. Mathematical model of D.C. motor drives, mechanical characteristics, transient analysis, equivalent circuits. Speed control of separately excited D.C. and series motors. Armature and field control. Breaking of D.C. motors. A general survey of converters for feeding D.C. motor drives. Induction motor drives. Mathematical modeling of induction motor drives, mechanical characteristics, transient analysis, equivalent circuit. Speed control of induction motors. V/f controlled induction motors, PWM inverter drives - VSI & CSI fed motors, field oriented control, direct torque control. Breaking of induction motor drives. A general survey of converters for feeding induction motor drives. Applications of electrical drive technologies used in industrial systems: Hoists, elevators, presses and crushers, conveyor belts, electric traction systems, fans, pumps and compressors.					
4. Teaching methods:					
Lectures, Exercises.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Vučković	Električni pogoni		Akademsko misao, Beograd	2002
2,	B. Jeftenić, M. Bebić, N. Mitrović, Đ. Oros, M. Petroniie	Elektromotorni pogoni - zbirka rešenih zadataka		Akademsko misao, Beograd	2003

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Table 5.2 Course specification

Course:		English Language – First Certificat 1			
Course id: EJE5					
Number of ECTS: 2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		0	0	0	0
Precondition courses					
1. Educational goal:					
Mastering the development of all language skills at the B2 level of the Common European Framework of Reference for Languages within this course.					
2. Educational outcomes (acquired knowledge):					
Students have the knowledge of reading, writing, listening and speaking at the level that approximates the B2 level of the Common European Framework of Reference for Languages. They possess a wide vocabulary related to the course topics and they use it properly. They are confident in using grammar at this level.					
3. Course content/structure:					
Grammar is covered by literature for this course at the B2 level of the Common European Framework of Reference for Languages. The vocabulary related to the topics covered by the literature. Developing all language skills at this level within the course literature (the first part of the textbook).					
4. Teaching methods:					
The emphasis is placed on the student activities during the class, their interaction with the teacher and between themselves. The communicative approach is used in the foreign language lectures.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test		Yes	10.00	Oral part of the exam	Yes 30.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Simon Haines and Barbara Stewart	First Certificate Masterclass (Units 1- 6)		Oxford University Press	2000
2,	Simon Haines and Barbara Stewart	First Certificate Language Practice		Oxford University Press	2000
3,	Grupa autora	Oxford English - Serbian Dictionary		OUP	2006

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Table 5.2 Course specification

Course:		Application of Computers in Power Systems 1			
Course id: EE401					
Number of ECTS: 7					
Teacher:		Švenda S. Goran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
3		3	0	0	0
Precondition courses		None			
1. Educational goal:					
Programme language Fortran. Fundamentals in Microsoft Visual Studio (MSDev).					
2. Educational outcomes (acquired knowledge):					
Writing programme for Windows operating system using programme language Fortran.					
3. Course content/structure:					
Development environment (MSDev). Elements of the programme language Fortran (declarations and using of data, sequences and pointers, programme, programme unit and procedure management, object-oriented Fortran, classes, inheritance, polymorphism, interoperability with C++).					
4. Teaching methods:					
Lectures – Auditory					
Knowledge testing: carrying out a task based on writing a code for solving an actual task before taking oral/written part of the examination.					
Oral part of the examination – theoretical part and written examination – exercises.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	40.00	Written part of the exam - tasks and theory	Yes 50.00
Exercise attendance		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D.Bekut, J.Dujić, R.Bibić	Primena računara u elektroenergetici		Fakultet tehničkih nauka, Novi Sad	2005
2,	R.Bibić, J.Dujić, D.Bekut	Primena računara u elektroenergetici		Fakultet tehničkih nauka, Novi Sad	2006
3,	M.Milić, D.Bekut	Primena računara u elektroenergetici - C++		Fakultet tehničkih nauka, Novi Sad	2007

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Table 5.2 Course specification

Course:		Application of microprocessors in power engineering			
Course id:	EE408A				
Number of ECTS:	6				
Teacher:		Marčetić P. Darko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses		None			
1. Educational goal:					
Introducing undergraduate students to the basic principles of microprocessor system design in power engineering. The student gains knowledge in two fields: microcontrollers and digital control of electrical devices with numerous application examples.					
2. Educational outcomes (acquired knowledge):					
After theoretical lectures and laboratory practice students gain practical knowledge in the field of microprocessors and digital control of electrical drives. Acquired knowledge can be used for solving specific engineering problems.					
3. Course content/structure:					
Introduction. Numerical systems, codes, switching algebra, digital electronics. The basic principles of microprocessors. Elementary computer-the composition and functioning. Bus, RAM, ROM, I/O unit, other components. Typical microprocessor and microcontroller systems. 8-bit microcontroller 8031 and the family (8051, 80535,...) Internal architecture. Memory, registers, interruptions and priorities. 16-bit microcontroller 4011 (dsPIC family). Internal architecture. Memory, registers, interruptions and priorities. Basic instructions and programming. Analysis and programme testing (debugging). Digital signal processors (DSP). Programmable logic controllers (PLC). Possibilities of application of microprocessors in power engineering and industry. Realization of the regulatory circuit of the power converter using microprocessors. Realization of digital control law. Sensors, speed measurement, position (encoder and resolver), voltage, current. Application of microprocessors in the regulated DC electric motor. Application of microprocessors in the voltage controllers (DC and AC voltage controllers). Application of microprocessors in the AC controlled drive. Application of PLC in industrial plants. Other applications. The application of DSP in servo controlled alternating drives and in the motion control.					
4. Teaching methods:					
The course consists of lectures with contemporary illustrations, and the laboratory practice (of interactive and demonstration type)					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Coloquium exam	Yes 40.00
Laboratory exercise attendance		Yes	5.00	Oral part of the exam	Yes 30.00
Test		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Darko Marčetić , Vlado Porobić	Primena mikroprocesora u elektroenergetici , praktikum laboratorijskih vežbi		FTN Novi Sad izdavaštvo	2011
2,	Slobodan N Vukosavić	Digitalno upravljanje električnim pogonima		Akadska misao	2003
3,	Milić Stojić	Digitalni sistemi upravljanja		Nauka, Beograd	1994
4,	Darko Marčetić	Mikroprocesorsko upravljanje energetskim pretvaračima		FTN Izdavaštvo	2012

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Table 5.2 Course specification

Course:		Professional Practice				
Course id:	E1SP1Z					
Number of ECTS:	2					
Teachers:						
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:	Other classes:	
0	0	0		0	3	
Precondition courses		None				
1. Educational goal:						
Acquiring direct knowledge about activities and organization of companies and institutions dealing with profession chosen by the student and possibilities of application of previously acquired knowledge in practice.						
2. Educational outcomes (acquired knowledge):						
Enabling students to apply previously acquired theoretical and professional knowledge for solving specific practical engineering problems within the chosen company and institution. Introducing students to the activities of the chosen company or institution, to the ways of doing business, management and place and role of the engineer in their organizational structures.						
3. Course content/structure:						
It is created individually for each candidate, in agreement with the company or institution management where professional practice is taking place, and in accordance with the needs of profession for which the student is being trained.						
4. Teaching methods:						
Consultations and professional practice journal writing where the student describes activities done during the professional practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Literature						
Ord.	Author	Title			Publisher	Year

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Table 5.2 Course specification

Course:		Electric Power Quality			
Course id: EE0406					
Number of ECTS: 5					
Teachers:		Grabić U. Stevan, Katić A. Nenad, Katić A. Vladimir, Milanović V. Jovica			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
3		1	2	0	0
Precondition courses None					
1. Educational goal:					
The course aim is to introduce students to contemporary problems of power quality, which in the electric power market conditions become one of the benchmarks of EES. The aim is to enable students to understand, analyze, design, and explores a wide range of power quality problems, especially the appearance of higher harmonics, rapid voltage variations (dips, short disappearance, jumps, etc.), flickers and faulty grounding, and to create and apply modern standards, recommendations and other technical regulations, and to plan and implements complex equipment for measuring quality parameters in the laboratory or in the field.					
2. Educational outcomes (acquired knowledge):					
Students will be educated to understand, analyze, design, and explores a wide range of power quality problems, to create and apply modern standards, recommendations and other technical literature, and to plan and implement complex power quality parameters monitoring & measurements in the laboratory or in the field.					
3. Course content/structure:					
Introduction: The concept and basic definitions, systematization. Mathematical background: Fourier transform, Nyquist frequency, aliasing, choice of window functions. Sources of power quality degradion: Power converters - rectifiers, inverters, choppers, voltage regulators, faults in power systems, operation of the automatic reclosing units (APU), effects of atmospheric discharges, electric arc furnaces and nonlinear characteristics of electric machines and transformers, industry - large drives start-up, compensation, resonance, etc. The effects of degraded power quality: resonance in the network, influence on telecommunication signals, effects on measurements accuracy, effects on the control circuits, influence on sensitive electronic and microprocessor devices operation (computers, electronic scales, etc..). Effects on electrical machines, cables etc. Impact on the operation of the factory drives and examples from practice. Power quality monitoring: Measurement systems and equipment, strategies and methods of measurement, analysis and presentation of measurement results. Methods fof improving the quality: standards and recommendations, harmonic filters, active filters,uninterable power systems, static compensators. Settings of the power quality.					
4. Teaching methods:					
method of theoretical problems presentation, mathematical modeling, solving tasks with real situations and settings, as well as laboratory measurements and the application of new tools and software will be applied.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 50.00
Lecture attendance		Yes	5.00		
Project task		Yes	40.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Roger Dugan, Mark McGranaghan, Surya Santoso	Electrical power systems quality		McGraw-Hill, New York	2003
2,	Vladimir Katić	Kvalitet električne energije - viši harmonici		UNS-Fakultet tehničkih nauka, Edicija Monografije, Br.6	2002

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Table 5.2 Course specification

Course:		Electrical Installations and Industrial Power Engineering						
Course id:	EE407							
Number of ECTS:	6							
Teacher:		Gušavac J. Strahil						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
3		3		0		0	0	
Precondition courses		None						
1. Educational goal:								
The main course objective is to train students for electrical installation design based on the knowledge of electrical properties of devices and mastering the systems of protection from the excessive voltage. Students are also trained about power supply principles of different categories of structures and consumers, about compensation of reactive energy and load management and protection of structures against lightning.								
2. Educational outcomes (acquired knowledge):								
Knowledge of the design methods of residential installations. Knowledge of the design methods on installations in industry. Forming technical parts of the conceptual design.								
3. Course content/structure:								
Types of electrical installations, their design and coordination. Electrical device properties. Dimensioning and protection from circuits in electrical installations. Protection from over-voltage contact. Protection from the weather discharge. High and low voltage power network in industry and large buildings. Reactive compensation of energy and power. Load management.								
4. Teaching methods:								
Lectures; Auditory Practice; Computer Practice; Laboratory Practice.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Exercise attendance			Yes	5.00	Written part of the exam - tasks and theory		Yes	35.00
Lecture attendance			Yes	5.00	Oral part of the exam		Yes	35.00
Term paper			Yes	20.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	M. Jovanović		Električne instalacije I, II i III			Beograd		1996
2,	G. G. Seip		Electrical Installations Handbook			Siemens, Berlin		1987
3,	M. Kostić		Teorija i praksa projektovanja električnih instalacija			Akademska misao, Beograd		2002
4,	Lj. Gerić, M. Savić, Č. Vujović		Zaštita objekata od atmosferskih pražnjenja			FTN, Novi Sad		2001

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Table 5.2 Course specification

Course:		Measurement systems in power sector			
Course id:	EE420A				
Number of ECTS:	5				
Teacher:	Bojković J. Gordana				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge in the field of measurement systems applied in power engineering. Design of measurement instruments and systems in this field. Introduction to the standards of connection for measurement instruments.					
2. Educational outcomes (acquired knowledge):					
Introduction to the measurement systems in power engineering. Conditioning of measurement signals in power engineering. Digital measurement systems. Standards for connection of measurement instruments. Application of oscilloscopes. Digital frequency and time measurement. Sources of measuring and test signals. Signal analyzers. Design of measurement instruments and systems in power engineering. Adaptive measurement instruments in power engineering. Multichannel measurement. High frequency measurements. Modulation measurement. Measurement of electromagnetic field in power engineering. Systems for measurement and control, quality management systems, integrated systems, data protection.					
3. Course content/structure:					
Lectures; Laboratory Practice; Consultations.					
4. Teaching methods:					
Lectures. Laboratorz exercises. Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes 50.00
				Coloquium exam	No 20.00
				Oral part of the exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Gregory K. McMillan ed. and Douglas M. Considine	PROCESS/ INDUSTRIAL INSTRUMENTS AND CONTROL S HANDBOOK		McGRAW-HILL	1999

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Table 5.2 Course specification

Course:		Electrical Design and Calculation Software						
Course id: EE421A								
Number of ECTS: 5								
Teacher:		Oros V. Đura						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
3		0		2		0	0	
Precondition courses None								
1. Educational goal: Introducing students to the basic principles of technical documentation design in power engineering.								
2. Educational outcomes (acquired knowledge): Acquired knowledge could be used in solving specific engineering problems while designing technical documentation.								
3. Course content/structure: Types of projects and their contents. Project assignment. Technical description. Technical conditions. Investment documentation – bill of quantities. Graphical attachments and their design. Implementation of regulations and standards in documentation design. Application of software in design. Fundamentals of AutoCAD and EPLAN.								
4. Teaching methods: Lectures and computer laboratory practice.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Laboratory exercise attendance			Yes	5.00	Written part of the exam - tasks and theory		Yes	25.00
Lecture attendance			Yes	5.00	Oral part of the exam		Yes	25.00
Project defence			Yes	40.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	M. Isailović, M. Bogner		Propisi o izgradnji objekata			SMEITS		2000
2,	G. Dotlić		Elektrotehnika kroz standarde, zakone, pravilnike i tehničke preporuke			SMEITS		2006
3,	G. Omura		AutoCad 14			Mikro knjiga		1997

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Table 5.2 Course specification

Course:		Control circuits in power electronics			
Course id:	EE430				
Number of ECTS:	5				
Teacher:	Porobić B. Vlado				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Acquisition of basic knowledge in the application of electronic circuits in power converters. The goal of this course is to educate students to design, construct and analyze control conditioning circuits in power electronic converters, especially DC / DC and DC / AC type					
2. Educational outcomes (acquired knowledge):					
Students will be able to understand the principles and methods of control circuits of powerful and compact semiconductor components of converter module, calculates a simple solution to all conditioning circuits of power converters, primarily DC/DC and DC/AC type. The acquired knowledge can be used to solve practical engineering problems					
3. Course content/structure:					
Conditioning electronics in DC/DC and DC/AC inverters. Compact converter modules. Control electronics of switches in power part of the inverter. Conditioning of control and measurement signals, galvanic isolation, protective circuitry. A review of the supporting electronics for asynchronous and synchronous motor with permanent magnet, brushless motor, stepper motor. Electronic circuits for signal processing speed/motor position. Examples of application of these circuits in the power electronic devices. Commercial devices, markets and methods of use					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Lecture attendance		Yes	5.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko Dokić	Energetska elektronika: pretvarači i regulatori		Elektrotehnički fakultet, Banja Luka	2000
2,	S.Tešić, D.Vasiljević	Osnovi elektronike		Građevinska knjiga, Beograd	2005
3,	D. Živković, M. Popović	Impulsna i digitalna elektronika		Akademski misao	1996

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Table 5.2 Course specification

Course:		Renewable Sources and Small Power Plants				
Course id: EE431						
Number of ECTS: 5						
Teacher:		Katić A. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		2	0		0	0
Precondition courses			None			
1. Educational goal:						
The course objective is that students acquire basic knowledge in the working principles and exploitation of renewable sources of power, and above all wind, solar and water energy (small hydro plants). The objective is to get introduced to the methods of operation, design and technical-economic aspects of their application in detail, especially considering the capacities in Vojvodina and Serbia. Besides, implementation of these sources into the existing distribution system will be presented along with all issues and specific features of open power market.						
2. Educational outcomes (acquired knowledge):						
Students will be able to calculate, use and design different forms of renewable sources of power and to improve possibilities of theirs use. They will acquire practical experience in working with wind and solar plants, as well as with the methods of their connection and operation in the existing power system.						
3. Course content/structure:						
Introduction – review of renewable sources of power. Energy potential and geographical distribution. Situation in Serbia and Vojvodina. Methods of use and possibilities of conversion. Solar and wind energy converters into electricity – theory, models and methods of functioning. Characteristics and selection of electric generators in the wind plants. Energy electric converters – application in wind plants, application in solar plants. Issues of production and assembly. Complex plants (wind farms) – working methods, surveyor mode, management, connection to the PES. Small hydro plants – design, control and connection. Economic – commercial conditions of application of renewable sources for production and sales of electricity. Possibilities of implementation of renewable sources into the power system. Advantages and issues in the distributed operation (unstable network, island operation, quality of electricity etc.).						
4. Teaching methods:						
Theoretical aspects and mathematical models will be presented during the lectures. Problem solution and designing methods will be done during the auditory practice, while practical work and characteristic measurements will be done within laboratory practice. Independent student work will be evaluated through project design.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance			Yes	5.00	Theoretical part of the exam	Yes 50.00
Laboratory exercise defence			Yes	40.00		
Lecture attendance			Yes	5.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	Thomas Ackermann		Wind Power in power systems		John Wiley and Sons, Chichester	2005
2,	JENKINS, ALLAN, CROSSLEY KIRSCHEN		Embedded generation		University Press, London	2000

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Table 5.2 Course specification

Course:		Programming of Measurement and Data Acquisition Systems				
Course id: EIPDMS						
Number of ECTS: 4						
Teachers:		Sovilj M. Platon, Mitrović Lj. Zoran, Vujičić V. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		0	1		0	1
Precondition courses		None				
1. Educational goal:						
The acquisition of knowledge in the field of application, design and development of software in microprocessor based measurement and acquisition systems.						
2. Educational outcomes (acquired knowledge):						
understanding of architecture of software applications for microprocessor based measuring and acquisition systems; the ability to work in interdisciplinary teams on understanding and solving problems related to the application, design and development of software in microprocessor based measurement and acquisition systems; the ability to search the literature and other forms of information in the field of software in microprocessor based measurement and acquisition systems and ability for presentation of research results;						
3. Course content/structure:						
Methods for design and development of software in microprocessor based measurement and data acquisition systems. Programming languages for development of software in microprocessor based measurement and data acquisition systems. Integrated development environment for the design and development of software in microprocessor based measurement and data acquisition systems. Testing and debugging software in microprocessor based measurement and data acquisition systems. Preparing documents for software in microprocessor based measurement and data acquisition systems. Practicum in design and development of software in microprocessor based measurement and data acquisition systems. Development of software in microprocessor based measurement and data acquisition systems based on Delphi programming language. Development of software in microprocessor based measurement and data acquisition systems based on Visual C # programming language. Development of software in microprocessor based measurement and data acquisition systems based on Visual C + + programming language.						
4. Teaching methods:						
Lectures, auditory exercises, laboratory exercises, consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory		Yes 50.00
Laboratory exercise defence		Yes	20.00	Practical part of the exam - tasks		Yes 20.00
Lecture attendance		Yes	5.00			
Literature						
Ord.	Author	Title			Publisher	Year
1,	Marco Cantù	Mastering Delphi 7			Sybex	2003
2,	Jon Skeet	C# in Depth			Manning Publications	2010
3,	Microsoft Corporation	Microsoft Visual C++ .NET Language Reference			Microsoft Press	2002

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Table 5.2 Course specification

Course:		Design and development of industrial devices and measurement systems 1						
Course id: EIPMS1								
Number of ECTS: 7								
Teachers:		Pejić V. Dragan, Vujičić V. Vladimir, Mitrović Lj. Zoran						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
3		0		3		0	0	
Precondition courses None								
1. Educational goal:								
Acquiring knowledge in the field of Design and Development of Industrial Instruments and Measurement Systems.								
2. Educational outcomes (acquired knowledge):								
Students can design and develop industrial instruments and measurement systems.								
3. Course content/structure:								
The design methodology, a comprehensive approach, procedures and methods, TOP-DOWN and BOTTOM-UP; the decomposition of complex systems, joining of system parts, hardware and software design, team work.								
4. Teaching methods:								
Lectures, laboratory practice, consultations.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Laboratory exercise defence			Yes	30.00	Written part of the exam - tasks and theory		Yes	70.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	Hank Zumbahlen		Linear circuit design handbook			Analog Devices		2008
2,	Jim Williams		The art and science of analog circuit design			EDN		1998
3,	Protel International		Protel 99SE handbook			Protel International		2000

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Table 5.2 Course specification

Course:		Web-based Measurement and Data Acquisition Systems			
Course id: EIWDS					
Number of ECTS: 7					
Teachers:		Milosavljević P. Branko, Sovilj M. Platon, Mitrović Lj. Zoran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
3		0	2	0	0
Precondition courses		None			
1. Educational goal:					
The aim of the course is to present the latest solutions and methods in the field of design and application of web-based measurement systems.					
2. Educational outcomes (acquired knowledge):					
understanding of the purpose, design and technology of web-based measurement and data acquisition systems; the ability to search the literature and other forms of information in the field of web-based measurement and data acquisition system and the ability of the presentation of research results; good knowledge and understanding of the modules of web-based measurement and data acquisition system; knowledge and skills in the field of designing web-based measurement and data acquisition system.					
3. Course content/structure:					
The structure of web-distributed measurement and data acquisition system. Types of data acquisition module in distributed measurement and acquisition systems in different applications (industry, environmental protection, energy systems, appliances): smart sensors, RFID tagged objects, dedicated embedded measurement and data acquisition systems, and computer measurement and data acquisition systems. Expansion of data acquisition modules with integrated web servers and web applications. The role and implementation of servers in distributed measurement and data acquisition systems. Client applications in distributed measurement and data acquisition systems. Stand-alone client applications and web client applications. Client devices: computers, general-purpose embedded systems dedicated to portable devices for general use. Cloud service integration in web-distributed measurement acquisition systems. Programming and deployment data acquisition modules. Programming and deployment of server modules. Programming and deployment of client modules. The acquisition of embedded web servers implemented in C programming language. Examples of DotNET, JAVA, PHP and Python embedded data acquisition web applications. Practical examples and servers in the middle tier web-distributed measurement and acquisition systems in different applications. Practical examples and client modules in web-distributed measurement and acquisition systems in different applications. Subsystems for automatic calibration, testing and metrological support in web-distributed measurement acquisition systems.					
4. Teaching methods:					
Lectures, laboratory exercises and consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes 50.00
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	F. Davoli	Remote Instrumentation Services on the E-Infrastructure: Applications and Tools		Springer	2011
2,	F. Davoli	Remote Instrumentation and Virtual Laboratories : Service Architecture and Networking		Springer	2010
3,	V. R. Haasz	Advanced Distributed Measuring Systems - Exhibits of Application		River Publishers	2012
4,	B. Milosavljević, M. Vidaković	Java i Internet programiranje		Grupa za informacione tehnologije. Novi Sad	2010

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Table 5.2 Course specification

Course:		Principles of radio communication			
Course id:	EK457				
Number of ECTS:	6				
Teacher:		Milošević S. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
3	2	1	0		0
Precondition courses		None			
1. Educational goal:					
Mastering the basic knowledge related to the use of radio-emission in the function of remote data transfer. Introduction to the contemporary radio-systems.					
2. Educational outcomes (acquired knowledge):					
Theoretical knowledge, the use of programme simulations.					
3. Course content/structure:					
Development of radio-communications. Electromagnetic wave properties. Transfer function of radio-connection. Antennas, the characteristics and parameters. EM wave propagation, attenuation in the free space, the impact of Earth, atmosphere and ionosphere on the propagation of waves. Fading. Diversity transfer techniques. Multiple access techniques (FDMA, TDMA, CDMA). Review and systematization of mobile radio systems. Conventional radio network. Characteristics of modern cellular radio networks: mobile telephony (GSM), tracking system (TETRA), DECT, Radio-LAN. Satellite mobile systems. Development of universal mobile telecommunication systems (UMTS).					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		No	10.00	Written part of the exam - tasks and theory	Yes 70.00
Laboratory exercise defence		Yes	20.00	Coloquium exam	No 35.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. B. Dragović	Antene i prostiranje radio talasa		Elektrotehnički fakultet, Beograd	1996
2,	B. Notaroš i dr	Zbirka ispitnih pitanja i zadataka iz Elektromagnetike		ETF, Beograd	1998
3,	T.S. Rappaport	Wireless Communications – Principles & Practice		Prentice Hall	1996
4,	G. L. Stueber	Principles of Mobile Communication		Kluwer Academic Publishers	2000
5,	W.C.Y. Lee	Mobile communications engineering		McGrow-Hill, New York	1982
6,	D.M.Balston, R.C.V. Macario	Cellular Radio Systems		Artech House, London	1993
7,	S.H.Redl	An Introduction to GSM		Artech House, London	1995

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Table 5.2 Course specification

Course:		Telecommunication networks			
Course id:	EK458				
Number of ECTS:	6				
Teachers:		Šećerov E. Emil, Bajić D. Dragana, Lončar-Turukalo G. Tatjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge about organization and modern telecommunication network functioning. Introduction to standards applied in practice.					
2. Educational outcomes (acquired knowledge):					
Complete understanding of network technologies - knowledge of the functions of switching and transport systems. Understanding the principles of fiber optic transmission and the basic elements needed for the design of optical systems in practice. Qualification for inclusion in the work in the organizations offering telecommunications services.					
3. Course content/structure:					
ntroduction to telecommunication networks;commutation types; The principles of optical transmission Elements of optical links. Propagation of EM waves in a circular waveguide. Group delay and dispersion. Types of the optical fibers and their application. Modal and chromatic optical fiber bandwidth . Optoelectronic conversion principles. Optical couplers. Optical amplifiers. Wavelengths division multiplexing (WDM). Digital transmission systems (PDH, SDH and OTN); IP-based transmission service (motivation, speech coding and video, architecture softsvič) Standards for wireless 3G and 4G LTE Virtual private networks. Performance analysis of network-level switch. Theory serving - Little 'theorem with applications, the process of arrivals and departures call queues, M/M/1, M / M / m, M / M / m / m, M / M / M / ?),					
4. Teaching methods:					
Lectures; Auditory Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Written part of the exam - tasks and theory	Yes 70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	T.N. Saadawi, M.H.Ammar, A.E.Hakeem	Fundamentals of Telecommunication Networks		John Wiley and Sons	1994
2,	H. G. Perros	Connection-oriented Networks		John Wiley & Sons	2005
3,	I. Minei, J. Lucek	MPLS-Enabled Applications, Emerging Developments and New Technologies		John Wiley & Sons	2005
4,	Aleksandar Marinčić	Optičke komunikacije		Univerzitetski udžbenik	1997
5,	D. Bertsekas, R. Gallager	Data Networks (http://web.mit.edu/dimitrib/www/datanets.html)		Prentice Hall	1992
6,	D. Bajic, T. Lončar Turukalo	Skripte i prezentacije predmetnih nastavnika na sajtu www.ktios.net			2010
7,	Stanislav Matić	Principi komutacije u telekomunikacijama		Javno preduzeće PTT saobraćaja "Srbija"	1993

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Table 5.2 Course specification

Course:		Wireless sensor networks						
Course id: EK459								
Number of ECTS: 5								
Teacher:		Stefanović D. Čedomir						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:		
3		0	2	0		0		
Precondition courses None								
1. Educational goal:								
Capability to analyze and synthesize wireless sensor and ad-hoc networks. Capability to research and design of WSN solutions.								
2. Educational outcomes (acquired knowledge):								
Theoretical knowledge, practical work (usage of simulations, work on the laboratory equipment). Design and implementation of wireless sensor network solutions, embedded system programming.								
3. Course content/structure:								
Introduction to wireless sensor networks; basic features of wireless sensors, ad-hoc and actuator networks; theoretical basis and algorithms on graphs; analysis of power efficiency; protocols and standards (physical level, level of control of medium control, network level); application and usage scenarios, fundamentals of wireless networks for monitoring physiological parameters (body area networks); design, simulation and implementation of wireless sensor networks.								
4. Teaching methods:								
Lectures; Auditory, Computer and Laboratory Practice; Homework Assignments; Field Work; Colloquium and Examination.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Exercise attendance			Yes	5.00	Written part of the exam - tasks and theory		Yes	60.00
Lecture attendance			Yes	5.00				
Project			Yes	30.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	I. Stojmenović		"Handbook of sensor networks: algorithms and architecture"			John Wiley & Sons		2005
2,	H. Wu and Y. Pan		"Medium Access Control in Wireless Networks", pp. 383-4068.			Nova Science Publishers		2008
3,	C. S. R. Murthy and B.S. Manoj		"Ad Hoc Wireless Networks: Architectures and Protocols"			Prentice Hall		2004

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Table 5.2 Course specification

Course:		Complex Digital System Design			
Course id:	EM400A				
Number of ECTS:	6				
Teacher:	Struharik J. Rastislav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
Acquiring knowledge in the field of architecture of the contemporary microprocessors, design of contemporary microprocessors and other complex systems based on the given specification, the use of advanced possibilities of the VHDL language for description of complex digital systems. Hardware design based on usage of contemporary EDA tools.					
2. Educational outcomes (acquired knowledge):					
- ability to design contemporary microprocessor or some other complex digital system using VHDL language based on the given specification					
- ability to use RTL design methodology and contemporary design tools for hardware synthesis					
3. Course content/structure:					
VHDL language for digital system description. Advanced possibilities of the VHDL language. Subprogrammes, procedures, functions. Packages and their use. Alias commands. Generics. Components and configurations. Generate commands. Attributes and groups. Systematic approach in the complex digital system design. Data path and control path. Pipelined and parallel processing. Structure of modern microprocessor. ILP processor architecture. Processors with pipelined processing system. WLIV processors. Superscalar processors. High Level Synthesis. Algorithms for allocation, scheduling and binding. Interface synthesis. Contemporary EDA tools for High Level Synthesis.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes 70.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. L. Hennessy, D. A. Patterson	Computer Architecture, Fourth Edition: A Quantitative Approach		Morgan Kaufmann Publishers	2006

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Table 5.2 Course specification

Course:		Real-Time Microcomputer Systems			
Course id:	EM401				
Number of ECTS:	6				
Teacher:	Malbaša D. Veljko				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
Enabling students to design, simulate, test and implement hardware and software of microcomputer systems for implementation into other embedded systems and real-time operation.					
2. Educational outcomes (acquired knowledge):					
The student who successfully completes this course will be able:					
- to write and interpret specification of embedded microcomputer systems,					
- to design the model of embedded microcomputer system based on the given application and specification with minimal hardware resources,					
- to understand interaction between hardware and software of embedded microcomputer systems and to be able to adjust hardware and software components in order to achieve required system performance with minimal resources.					
- to understand and apply industrial standards used in embedded systems.					
- to design programme support for real-time operation for the given platform of embedded system.					
- to apply completed core of the operating system for real-time operation in solving problems from engineering practice.					
- to integrate hardware and software components of embedded systems along with surrounding and to test the system as a whole.					
3. Course content/structure:					
Structure and properties of embedded microcomputer systems. Interaction of embedded microcomputer systems. Real-time operation. Specification of embedded microcomputer systems. Models of built-in microcomputer systems. Connection with the environment and industry standards. Designing hardware and software of embedded microcomputer systems. The core of real-time operating systems. Application of cores for the real-time operation in solving practical problems. Designing application programs for real-time operation. Integration and testing of embedded microcomputer systems. Application of modern simulation tools for design, specification, verification, simulation and implementation of embedded system for real-time operation.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Final exam - part one	Yes 25.00
Laboratory exercise defence		Yes	40.00	Final exam - part two	Yes 25.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Malbaša	Ugrađeni (embedded) mikroračunarski sistemi - skripte		FTN Novi Sad	2006

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Table 5.2 Course specification

Course:		Fundamentals of Process and Energy Engineering			
Course id:	E2313				
Number of ECTS:	4				
Teacher:		Gvozdenac D. Dušan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	1	0	1	
Precondition courses		None			
1. Educational goal:					
Introduction to technological, mechanical, electrical and control characteristics of industrial processes. Students learn about some energy intensive industrial processes (food industry, paper industry, cement industry, petrochemical industry, etc...). Students gain knowledge about the simultaneous analysis of the flows of raw materials on the one hand, and the flow of energy and water, on the other. Control and monitoring of these flows requires their modeling in real time.					
2. Educational outcomes (acquired knowledge):					
Students will learn about all relevant technological processes in industry and will be able to perform the calculation of all the major flows of materials and energy. Students learn to analyze parameters that substantially affect product quality, safety, control and efficiency.					
3. Course content/structure:					
Fundamentals of industrial processes in which change the chemical or physical-chemical properties of matter. Plants for basic energy transformations and their properties (boilers, cooling towers, compressed air, transformers, motors, etc.). Analysis of industrial processes (food industry - production of sugar, edible oil, meat and meat products, milk and dairy products, canning fruits and vegetables ..., paper industry, cement industry, oil industry and petroleum distillates.Modern control methods of industrial processes.					
4. Teaching methods:					
Lectures. Exercises. Consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Theoretical part of the exam	Yes 40.00
Test		Yes	10.00	Practical part of the exam - tasks	Yes 30.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Gvozdenac	Upravljanje energetski intezivnih industrijskih procesa		FTN	2013
2,	A. Bejan, G. Tsatsaronis, M. Moran	Thermal Design and Optimization		John Woley/Sons	1996
3,	W. F. Stoecker	Design of Thermal Systems		McGraw-Hill	1989
4,	L. C. Witte, P. S. Schmidt, D. R. Brown	Industrial Energy Management and Utilization		Hemispere Publishin Corporation	1988

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Table 5.2 Course specification

Course:		Exploitation of Distribution Systems / Networks			
Course id:	EE420				
Number of ECTS:	6				
Teachers:		Popović N. Željko, Popović S. Dragan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The main objective is acquiring knowledge on operative management of distribution systems in normal and disaster states and on operative planning and optimization of distribution system.					
2. Educational outcomes (acquired knowledge):					
Knowledge on business processes in distribution systems. Knowledge on methods, approach and tools applied in operation management and optimization of distribution system work.					
3. Course content/structure:					
Power flow calculation in distributive system. State estimation. Operational management in distributive systems. Management in normal conditions: Tools (software and hardware) for determination, implementation and surveillance of optimal state in distribution systems. Systems for surveillance, data acquisition and equipment management (SCADA) in distribution network. Telecommunication infrastructure. Contemporary software systems for distribution management system (DMS). Control of voltage and reactive states in distribution system: mathematical models, optimization techniques, possible implementation ways. Management in disaster states: tools, models and optimization procedures for detection and isolation of failures and supply restorations in current distribution systems. Systems for manipulation automatization in distribution systems. Management systems (OMS). Operational planning and optimization: management of planned cuts, short term forecast of consumption/production, models and optimization procedures for determination of optimal configuration of distribution networks in contemporary distribution systems. Assets management and maintenance: tools and models for surveillance and state estimation of distribution system elements, maintenance strategies: maintenance based on equipment condition, maintenance based on risk assessment. Tools and approaches to measurements and risk assessment. A part of the classes are carried out through independent study and research work in the field of planning and optimization of distribution network. Study and research work includes active informing from scientific resources, organization and performance of experiments and statistical data processing, numeric simulations					
4. Teaching methods:					
Lectures or mentor work (consultations). Study and research work.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 65.00
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Popović, D. Bekut i V. Treskanica	Specijalizovani DMS algoritmi		DMS Group, Novi Sad	2004
2,	J. A. Momoh	Electric Power Distribution Automation Protection an Control		CRC Press	2007
3,	J. Northcote-Green and R. Wilson	Control and automation of electric power distribution systems		CRC Press	2007
4,	C. Strauss	Practical Electrical Network Automation and Communication Systems		Newnes	2003
5,	T. Gonen	Electric Power Distribution System Engineering		McGraw Hill	1986
6,	H. L. Willis	Power Distribution Planning Reference Book		Marcel Dekker	2004

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Table 5.2 Course specification

Course:		Measurements in robotics				
Course id: EI411						
Number of ECTS: 7						
Teachers:		Milovančev S. Slobodan, Mitrović Lj. Zoran				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		3	0		0	0
Precondition courses		None				
1. Educational goal:						
Acquiring knowledge in the field of Measurement in robotics.						
2. Educational outcomes (acquired knowledge):						
Ability to design and use measurement components and devices specific for robotics.						
3. Course content/structure:						
Sensors in robotics (six-parameter, encoders, tachometers, measuring rods, measuring tapes, inclinometers). Transducers. Most often measured forces and moments.						
4. Teaching methods:						
Lectures; Laboratory Practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory		Yes 50.00
				Coloquium exam		No 20.00
				Oral part of the exam		Yes 20.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Mladen Popović	Senzori u robotici			Viša elektrotehnička škola Beograd	1996
2,	H. R. Everett	Sensors for mobile robots, theory and application			A. K. Peters	1995

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Table 5.2 Course specification

Course:		Acoustics and Audio Engineering			
Course id:	EK312				
Number of ECTS:	6				
Teachers:	Delić D. Vlado, Sečujski S. Milan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	1	0	0	
Precondition courses		None			
1. Educational goal:					
Acoustics and audio engineering has a lot of applications in various fields (arts, medicine, noise, mechanical engineering, civil engineering, ...), and the best profession for this area are electrical engineers. Describe the nature of sound and present the basic theory of sound generation and propagation of sound waves. Explain what and how people can hear and how they perceive different sound pressure levels and the frequency content of sound, as well as the direction of the sound source. Explain how both the transmission and perception of sound are influenced by enclosed areas such as rooms and concert halls. Present the audio signals (speech, music and noise) and audio equipment for recording and playback, analysis and processing, as well as transmission of audio signals. Explain the electro-acoustic-mechanical analogy and how they are used to analyse acoustic systems.					
2. Educational outcomes (acquired knowledge):					
Students will learn how sound waves are produced and how they propagate, what a human being can hear and how sound affects humans, as well as how sound is recorded, transmitted and reproduced. They will understand the differences in the behavior of sound both indoors and outdoors and learn to design a sound system. They will be able to evaluate the acoustic environment (in terms of speech intelligibility, quality of listening to music, noise level), and to select and place audio-equipment for recording of speech, music, and noise. Electrical engineers are qualified to deal with electro-acoustics because they know how to analyse acoustic-mechanical systems by means of equivalent electrical circuits.					
3. Course content/structure:					
•The physical characteristics of sound (the rules for the production and propagation of sound waves). •Sound perception and its influence on the human being (auditory area; dB and phones, isophone lines, binaural localisation, sound masking effect). •Audio signals (speech, music, and noise – features and tools for analysing and processing (Sound Forge)). •Room acoustics (absorption / reverberation and their impact on sound level and intelligibility, acoustical quality of professional rooms). •Analogies between acoustic, electrical and mechanical systems (analysis of acoustic systems: acoustic absorbers, exhaust, muffler, loudspeaker boxes, bass-reflex, headsets, microphones). •Microphones, loudspeakers and headphones (principles and characteristics). •Audio mixers (audio-visual controls, level regulation, filters, regulation of dynamics and reverberation, monitoring and sound editing, multi-channel recording (5.1, 7.1, 10.2,...)). •Sound systems design for both indoors and outdoors. Microphone and loud speaker systems for high quality reproduction. •Recording of voice and music program (selection and placement of microphones, recording of an orchestra). •Digital techniques for recording and reproduction of sound (magnetic and optical recording, CD, DVD, Blu Ray; MP3).					
4. Teaching methods:					
Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course (acoustics) is followed by auditory exercises. The second part of the course (audio engineering) is followed by exercises either in the Laboratory of Acoustics and Speech Technologies at FTN or in a sound studio at UNS. A visit to Radio Novi Sad is arranged, where students will learn about practical audio engineering, the music and speech studios, the anechoic room and the audio-theater complex. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecommunications and Signal Processing - www.ktios.net .					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Presentation		Yes	10.00	Written part of the exam - tasks and theory	Yes 50.00
Term paper		Yes	20.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Miomir Mijić	"Audio sistemi"		Akadska misao, Beograd	2011
2,	Petar Pravica, Dragan Drinčić	"Elektroakustika"		VISER, Beograd	2006
3,	Vlado Delić	Skripta sa predavanja		www.ktios.net	2012

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Table 5.2 Course specification

Course:		Biomedical signal processing					
Course id:	EK460						
Number of ECTS:	6						
Teacher:	Bajić D. Dragana						
Course status:	Elective						
Number of active teaching classes (weekly)							
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:			
3	1	2	0	0			
Precondition courses		None					
1. Educational goal:							
Types of 1D and 2D biomedical signals and specific methods of their processing							
2. Educational outcomes (acquired knowledge):							
An overview of different signals acquired by specific biomedical equipment, and particular features of their processing techniques.							
3. Course content/structure:							
1D signals: action potential; ECG, SBP, DBP, HR, EEG, EMG, specific data processing, compression; statistical analysis, artifact recognition and removal; RR and PI extraction from ECG and SBP signals, and problems. 2D signals, Radon transform, algebraic method for image reconstruction. ART, SIRT, SART. X-ray tomography. 4 generation of tomography equipment, spiral tomography, electronic tomography, artifacts, beam hardening, solutions. SPET and acquisition, exponential Radon transform, artifacts and elimination. PET image principles, electronic colimator, attenuation elimination. NMR, description and problems. Ultrasound. Medical statistics.							
4. Teaching methods:							
Lessons, practical work, visit to a relevant institutions.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points	
Project		Yes	30.00	Written part of the exam - tasks and theory		Yes	70.00
Literature							
Ord.	Author	Title			Publisher		Year
1,	B.H. Brown, R.H. Smallwood, D.C. Barber, et al	Medical Physics and Biomedical Engineering			IOP Publishing Ltd		1999
2,	D. Popović, M. Popović	Biomedicinska instrumentacija i merenja			Nauka, Beograd		1997

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Table 5.2 Course specification

Course:		Pattern Recognition				
Course id: EK463						
Number of ECTS: 5						
Teachers:		Crnojević S. Vladimir, Petrović S. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	2		0	0
Precondition courses		None				
1. Educational goal:						
Introduction to the basic concepts in the field of shape recognition; introduction to the contemporary methods for shape recognition.						
2. Educational outcomes (acquired knowledge):						
An overview of principles of contemporary methods for shape recognition. Ability to understand basic principles and methods used in shape recognition, as well as the possibility of simple knowledge extension working on the specific problem.						
3. Course content/structure:						
Statistical shape recognition: Bayes decision theory, parameter estimation and distribution, nearest neighbor method, linear discriminant. Dimensionality reduction: PCA analysis, Fisher discriminant, feature subset selection. Clustering, neural networks, Support Vector Machines, Hidden Markov models. Joint Learning.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project defence			Yes	30.00	Theoretical part of the exam	Yes 70.00
Literature						
Ord.	Author		Title		Publisher	Year
1.	Duda, Hart and Stork		Pattern Classification		2nd Ed.	2002

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Table 5.2 Course specification

Course:		Computer aided design of digital integrated circuits			
Course id:	EM407A				
Number of ECTS:	6				
Teacher:		Damnjanović S. Mirjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses		None			
1. Educational goal:					
Gaining knowledge in the field of computer aided design of digital integrated circuits with practical examples					
2. Educational outcomes (acquired knowledge):					
Ability to design and implement CMOS digital circuits (combinational and sequential)					
Ability to optimize CMOS digital circuits with respect to different constraints: size (cost), speed, power dissipation, and reliability					
Ability to design, simulate and analyze digital integrated circuits using Cadence					
3. Course content/structure:					
Modern trends of development of modern digital circuits with a large scale of integration. Introduction to the design of digital circuits using a computer. Stick diagrams. Design masks techniques for digital circuits (full-custom and semi-custom). Synthesis of layout, design, simulation and verification. Design rules in the software package CADENCE. Design of basic digital circuit (inverter, OR, NOR, EXOR). Half-adders, full adders, flip-flops. Designing the basic memory elements. Counters. Design of PLA structure. Design of dynamic logic circuits. Using blocks in the design of complex digital circuits. Definition of basic and derived generating layers in CADENCE. Generation of the industry standard files (.CIF, .GDSII). Development of scientific and technical documentation after design.					
4. Teaching methods:					
Lectures. Laboratory practice. The course is based on lectures, where theoretical concepts are explained and illustrated using design examples, and laboratory lessons. Simple digital logic circuits are analyzed using Cadence design tools. During the first part of laboratory work (4 weeks) students are taking this lessons in group of two, learning the Cadence environment. After that, they have to solve problems individually, with the guidance of teaching assistant. Carried out laboratory practices are included with up to 10% in final grade.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 35.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes 35.00
Project		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Vladan Desnica	Računarsko projektovanje elektronskih kola		WUS Austria & FTN Novi Sad	2005
2,	Jan M. Rabaey	Digital integrated circuits		Prentice Hall	2003
3,	Antonio J. Lopez Martin	Tutorial Cadence design environment		New Mexico State University	2003

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Table 5.2 Course specification

Course:		RF and microwave electronics			
Course id:	EM408A				
Number of ECTS:	6				
Teachers:		Crnojević-Bengin B. Vesna, Dautović B. Staniša, Struharik J. Rastislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
Students will gain fundamental knowledge from the field of RF and microwave electronics, with the focus on state-of-the-art microwave system, theoretical foundations, and the design of passive microwave components and circuits that operate above 1 GHz.					
2. Educational outcomes (acquired knowledge):					
Fundamental theoretical and practical engineering knowledge about the design of passive components, circuits and systems that operate at frequencies above 1 GHz. Capability to analyze, design and install wireless systems of the next-generation. Basic microwave measurements. Fundamentals of CAD design of microwave passive components and circuits. Acquired knowledge will be used in the engineering practice as well as in the further education: in courses Modeling and simulation of RF and microwave circuits and several courses at the MSc and PhD degree.					
3. Course content/structure:					
?lectromagnetic (EM) theory. Maxwell's equations. Interaction of EM waves and materials. EM characteristics of materials and practical materials. Propagation of EM waves. Power and energy. Polarization and its applications. Reflection and transmission. EM theorems and principles (the duality theorem, the uniqueness theorem, the reciprocity theorem, the theory of images). Transmission line theory. Practical realizations of microwave transmission lines (planar transmission lines, waveguides, surface integrated waveguides). Analysis of microwave networks. Z, Y, ABCD and S matrices. Basic microwave measurements and characterization. Phenomena of resonance. Resonators. Practical realizations of resonators. Filter theory. Filter deisgn by the insertion loss method. Scaling and filter transformation. Filter types and configuraitons. Slow-wave effect. ENG effect. Defect ground structures. Artificial EM materials and applications.					
4. Teaching methods:					
Lectures. Auditory excercizes. Laboratory excercizes.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 60.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 10.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. M. Pozar	Microwave and RF Wireless Systems		John Willey & Sons	2000
2,	G.L. Matthaei, et al.	Microwave filters, imedance-matching networks, and coupling structures		McGraww-Hill, USA	1968
3,	V. Crnojević-Bengin	Skripta iz predmeta RF i mikrotalasna elektronika			2011

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Table 5.2 Course specification

Course:		Computer aided design of analogue integrated circuits			
Course id:	EM424A				
Number of ECTS:	6				
Teacher:		Videnović-Mišić S. Mirjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses					
1. Educational goal:					
To gain knowledge of analogue integrated circuits computer aided design					
2. Educational outcomes (acquired knowledge):					
To gain knowledge of second order effect in contemporary submicron MOSFETs. MOSFET models in all operating regimes. To gain knowledge of passive components (resistance, capacitance and inductance) and of parameters that influence their design as a part of integrated circuit. To get familiar with the basic matching techniques and their use in current mirrors, voltage dividers, differential pairs. Pros and cons of the single transistor amplifiers, cascode and folded cascode amplifiers. To get familiar with the various topologies of the differential pair and their pros and cons. To get the knowledge of general issues while designing current mirrors and their topologies applicable in low-voltage technologies. Design of the integrated circuits with computer aided design tool Cadence.					
3. Course content/structure:					
Comparison of the CMOS and bipolar technology. Basic MOSFET characteristics. Second-order effects in MOSFETs (body effect, channel length modulation, weak inversion regime, mobility degradation with vertical electrical field, velocity saturation in the strong inversion regime, breakthrough, hot-electron effect...). Scaling limitations for MOSFET. Large signal schematic and respective capacitances for MOSFET. MOSFET small- signal schematic and parameters (transconductance, body effect transconductance, output resistance). Passive components (resistance, inductance, capacitance) and their fabrication precision as a part of integrated circuits. Circuits and devices matching. Layout techniques (multifinger gate, common centroid, interdigitated, side by side, dummy components, substrate contacts, contact and connection matching, shielding). Antenna effect in integrated circuits. Matching in current mirrors, voltage dividers, differential pairs. Single stage amplifiers (common source, common drain, common gate). Cascode amplifier and folded cascode amplifier. Differential amplifier with various types of loads. Commode mode rejection ratio and power mode rejection ratio as differential amplifier figures of merit. Current mirrors. Type of current mirror appropriate for low-voltage applications.					
4. Teaching methods:					
Lectures; Exercises; EDA tools laboratory exercises; Consultations. After completion of laboratory exercises students will work on a project, that finished contributes to the final mark with 15% maximum.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Project		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	R. Jacob Baker	CMOS Circuit Design, Layout and Simulation		Wiley-IEEE Press	2010
2,	B. Razavi	Design of Analog CMOS Integrated Circuits		McGraw-Hill Higher Education	2001

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Table 5.2 Course specification

Course:		Industrial Robotics				
Course id: I600						
Number of ECTS: 7						
Teachers:		Borovac A. Branislav, Spasić T. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		0	3	0		0
Precondition courses		None				
1. Educational goal:						
The course objective is for students to master the fundamentals of industrial robotics.						
2. Educational outcomes (acquired knowledge):						
The course outcome is the knowledge in fundamentals of industrial robotics.						
3. Course content/structure:						
Basic concepts and definitions, homogenous transformations, kinematics of robots (direct and inverse problems), Denavit-Hartenberg notation, Jacobian, the synthesis of trajectory, dynamics of robots, robot control, robot programming, sensors in robotics and their application, application of robots in industrial problems.						
4. Teaching methods:						
The course is held through lectures and practice. During practice students are obliged to pass one colloquium and to do and pass 3 computer exercises. Colloquium includes: homogenous transformations, direct and inverse kinematic problem, direct and inverse dynamic problem, planning the trajectory, industrial robot control. Computer practice is in MATLAB. The first exercise includes homogenous transformations, the second DH notation, the third calculation of trajectory (internal coordinates). Each exercise required defense. In order for student to gain the right to take the final examination, he/she has to take the colloquium and successfully do and defend all exercises. Final examination is in the form of the test and is related to theoretical questions.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence			Yes	30.00	Theoretical part of the exam	Yes 40.00
					Practical part of the exam - tasks	Yes 30.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	M. Vukobratović		Uvod u robotiku		Institut Mihajlo Pupin, Beograd	1986
2,	M. Vukobratović		Primenjena dinamika manipulacionih roboota		Tehnička knjiga, Beograd, II dopunjeno i izmenjeno izdanje	1990
3,	M. Vukobratović, D. Stokić		Primenjeno upravljanje manipulacionim robotima,		Tehnička knjiga, Beograd, II dopunjeno izdanje	1990
4,	M. Spong, S. Hutchinson, M. Vidyasagar,		Robot Modelling and Control		John Wiley & Sons, Inc., ISBN-10 0-471-64990-2,	2006
5,	L. Sciavicco, B. Sicilijano		Modelling and control of robot manipulators		Springer - Verlag, ISBN 1-85233-221-2	2000
6,	B. Borovac, G. Đorđević, M. Rašić, M. Raković		Industrijska robotika		Fakultet tehničkih nauka (u pripremi)	2007

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Table 5.2 Course specification

Course:		Numerical Algorithms and Numerical Software			
Course id: E231					
Number of ECTS: 4					
Teacher:		Konjović D. Zora			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	1	0	1	
Precondition courses					
1. Educational goal:					
Students gain basic knowledge about numerical analysis, methodology of applying numerical models in engineering disciplines, use of selected standard numerical software tools.					
2. Educational outcomes (acquired knowledge):					
Understanding basic numerical models and ability to apply them for solving simple engineering tasks using numerical software tools.					
3. Course content/structure:					
Introduction. Mathematical models and numerical models; methodology of solving engineering problems by applying numerical models; fields of application of numerical models in engineering. Basic numerical methods: numerical solutions of a system of linear algebra equations (direct and iterative procedures); numerical solutions of non-linear equations and systems; function approximation (interpolation and best approximation); differentiation and integration (maximum precision formula, maximum possible precision formula); common differential equations – initial condition (single-step and multi-step formulas, predictor-corrector procedures), boundary condition (shooting method, collocation formulas); function transformation (Fourier transform, wavelet transform); Numerical software tools: demands and functions, architecture, ways of use, available tools. Selected numerical software tools: architecture and ways of use, accompanying programming languages and programming.					
4. Teaching methods:					
Teaching methods include: Lectures, computer practice, homework assignments, and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at computer practice classes through assignments which students do independently or with the help of teaching assistants as well as through homework assignments (obligatory or optional). A student is expected to demonstrate the ability of independent task solving or understanding of the solution.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Laboratory exercise defence		Yes	40.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Michael Heath	SCIENTIFIC COMPUTING An Introductory Survey		McGraw-Hill	1997
2,	Zora Konjović	Numerički algoritmi i numerički softver		autorski rukopis	2005
3,	Đorđe Obradović, Zora Konjović	Numerički algoritmi i numerički softver - računarski praktikum		autorski	2004
4,	Amos Gilat	Uvod u MATLAB 7		Wiley	2005

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Table 5.2 Course specification

Course:		Optoelectronics				
Course id:	EM414					
Number of ECTS:	6					
Teachers:	Slankamenac P. Miloš, Živanov B. Miloš					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	2	1	0	0		
Precondition courses						
1. Educational goal:						
Acquiring basic knowledge in the field of optoelectronics, optoelectronic components, lasers (gas, solid, liquid, diodes and special), optical fibers, optoelectronic sensors, practical work on the diagnosis of optic fibers.						
2. Educational outcomes (acquired knowledge):						
- Ability to design systems with LED and laser diodes and photo detectors - Ability to design physical optoelectronic communication systems - Ability to design systems with displays - Ability to design systems with optoelectronic sensors - Ability to work with the most contemporary optoelectronic systems - Ability to work on the diagnostic of optical cables with OTDR instrument						
3. Course content/structure:						
Propagation of plane waves. Basic optical properties of materials. The spectrum of electromagnetic radiation. Optical coherence and polarization. Optical sources. Fundamentals of lasers. Detectors. Noise in optoelectronics. Light emitting diodes (LED). Laser diodes. Gas lasers. Solid based lasers. Liquid lasers. Special types of lasers. Optical resonators. Propagation of light through optical fibers. Optical fiber cables and connectors. Sensors based on optical fibers. The application of optoelectronic components in communications and computers. CCD elements. Holography. Display: plasma, LC, FE, TFT. New developments in optoelectronics: quantum well lasers, integrated circuits, the recent application of the light receivers: new application of light detectors, optocouplers. Practical work on the diagnosis of optic cables.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory		Yes 50.00
Laboratory exercise defence		Yes	10.00	Coloquium exam		Yes 20.00
Lecture attendance		Yes	5.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Živanov, M.	Optoelektronika za elektroničare, skripta		Novi Sad		2006
2,	Živanov, M. i M. Slankamenac	Optoelektronika, praktikum za vežbe		Novi Sad		2007
3,	Milatović, D.	Optoelektronika		Svjetlost, Sarajevo		1987
4,	Jones, K. A.	Introduction to Optical Electronic		New York, John Wiley and Sons		1987
5,	Kressel, H.	Semiconductor Devices for Optical Communication		Berlin, Springer-Verlag		1987
6,	S.O. Kasap	Optoelectronics and Photonics: Principles and Practices		Printece Hall		2001

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Table 5.2 Course specification

Course:		Computer-Aided Electronic Circuit Design			
Course id:	EM440				
Number of ECTS:	6				
Teachers:		Crnojević-Bengin B. Vesna, Nađ F. Laslo, Videnović-Mišić S. Mirjana			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses					
1. Educational goal:					
Acquiring basic knowledge in the field of computer-aided analog and digital electronic device and circuit design.					
2. Educational outcomes (acquired knowledge):					
- mastering basic principles of electronic circuit, component and device design					
- critical analysis of existing device and circuit solutions					
- selection of components based on the manufacturer's catalog data					
- preparation of project documentation					
3. Course content/structure:					
Introduction to computer-aided electronic circuit and device design. Methods and strategies of design of electronic circuits. The components of electronic circuits. Design and manufacturing of electronic devices. The rules of designing electronic circuits using computer. Options for designing chips (full-custom method, standard cells, gate matrix method. Building blocks for VLSI. Synthesis and layout design; simulation, verification and testing of electronic circuits and devices. Protection from interference in electronic devices. Analysis of the unknown final solutions of electronic circuits and devices. Computer-aided electronic circuit design. Fundamentals of microwave electronics. Scientific and technical documentation.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Consultations. Student have to finish two home works during the semester. The exam have two written parts. On third, oral part of examination will be formed the final grade. The exam can be taken through project work and defense – a prototype of electronic device or circuit instead of written examination.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	30.00	Final exam - part one	Yes 20.00
Homework		Yes	5.00	Oral part of the exam	Yes 10.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 30.00
Project		No	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	P. Vraneš, S. Randić, D. Simić, P. Marković	Uvod u projektovanje VLSI kola		Nauka, Beograd	1995
2,	D. Tjapkin, S. Ristić, S. Širbegović, R. Ramović	Komponente i konstruisanje elektronskih uređaja 1		Nauka, Beograd	1992
3,	L.Nađ	Projektovanje elektronskih uređaja – analiza postojećih rešenja elektronskih kola - skripta		FTN, Novi Sad	2004

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Table 5.2 Course specification

Course:		Applied electronics			
Course id:	EM444B				
Number of ECTS:	6				
Teachers:		Slankamenac P. Miloš, Živanov B. Miloš			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
Acquiring professional knowledge in the field of applied electronics in industry, modern devices, robots, connection with the computer and optoelectronic components etc. The main objective is to prepare students for solving contemporary and complex engineering problems.					
2. Educational outcomes (acquired knowledge):					
- ability to design and produce systems with PIC, DSP, and PLC controllers etc. - ability to design and produce measuring electronic devices - ability to design and produce devices for solving practical problems of consumer electronics - ability to design and produce robotic systems - ability to design and produce systems with optoelectronic components and sensors - ability to design and practically handle systems connecting computers and electronic systems					
3. Course content/structure:					
Design and production of systems based on hardware and software. Hardware includes: PC computers, computer networks, microcontrollers, DPSs, PICs, A/D and D/A converters, operational amplifiers, transistors, diodes, digital circuits, memories, sensors, video cameras, power sources, passive components, speakers, antennas, mobile phones, LC displays, optoelectronic components, thyristors and power transistors, modems etc. Software includes: C++, Delfi, MatLab, Visual Basic, Fat Slut, Visual C++, Software for PIC emulation, Software for DSP, Processing signals (FFT etc.) Students will get specific industrial problems in collaboration with industry. Part of the course is carried out through independent research in the field of applied electronics in industry and life. Research paper includes active monitoring of the primary technical and scientific resources, organization and experiment execution and statistical data processing, design of industrial devices, writing the paper in the field which belongs to the Master thesis topic. Preparation of project documentation. Public project presentation and Internet project presentation. Work is organized in teams where industry professionals will also participate.					
4. Teaching methods:					
Part of the course which represents a logical whole can be passed through 2 projects (worth up to 60 points). Final examination is in the form of the exam project presentation (worth up to 30 points). Students who have a good placement in contests get extra points. Course grade is formed based on the auditory and laboratory practice attendance, student projects, and final examination. Student capabilities in solving practical problems and paper presentations are assessed in particular.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	15.00	Written part of the exam - tasks and theory	Yes 30.00
Lecture attendance		Yes	5.00		
Project defence		Yes	50.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Spasoje Tešić	Elektronika - impulsna i digitalna kola		Nauka, Beograd	1992

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Table 5.2 Course specification

Course:		Basics of control in power systems			
Course id:	ESI010				
Number of ECTS:	6				
Teachers:		Erdeljan M. Aleksandar, Bekut D. Duško, Malbaša V. Vuk			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
3	0	3	0		0
Precondition courses		None			
1. Educational goal:					
The goal of this course is to acquire the necessary knowledge about the basics theoretical foundations of control systems and their implementation in power systems.					
2. Educational outcomes (acquired knowledge):					
Outcomes are the acquired knowledge, skills and abilities necessary for understanding the complexities of control systems and solving practical engineering problems in power systems.					
3. Course content/structure:					
Introduction: The purpose of automatic control systems, applications, basic concepts and principles of automatic control systems. Theoretical basis for modeling and mathematical models. Mathematical models of continuous linear and nonlinear systems. The elements of control systems: sensors, control elements, actuators. The elements of the control system in power systems. Control methods: open-loop control, the concept of feedback and closed-loop control, hierarchical control. Analysis and simulation of system behavior: stationary and transient response, the performance of the system. Stability and stability analysis. Elements of digital control systems. Introduction to the use of computers in control. Types of algorithms and software implementation: programmable logic controllers, industrial controllers, PID controllers, complex control algorithms. Examples of control applications in power systems and smart grid systems.					
4. Teaching methods:					
Teaching is conducted through lectures and computer exercises. During the exercises the student is required to apply their knowledge in practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project task		Yes	15.00	Theoretical part of the exam	Yes 30.00
Project task		Yes	15.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna Knjiga, Beograd	1978
2,	B. Kovačević, Ž. Đurović	Sistemi automatskog upravljanja- zbornik rešenih zadataka		Nauka, Beograd	1995
3,	D. Kukulj i ostali	Osnove klasične teorije automatskog upravljanja kroz rešene primere		Somel, Sombor	1995
4,	Projektovanje sistema automatskog upravljanja u prostoru stanja	Projektovanje sistema automatskog upravljanja u prostoru stanja		Univerzitet u Novom Sadu, Novi Sad	1995
5,	Richard C. Dorf; Robert H Bishop	Modern Control Systems		Addison-Wesley	1974

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Table 5.2 Course specification

Course:		Television and Image Processing Software 1			
Course id: RT50					
Number of ECTS: 7					
Teacher:		Teslić Đ. Nikola			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	0	3	0	0	
Precondition courses					
1. Educational goal:					
Students learn about designing architecture for receiving television signals, physical architecture and appropriate software support.					
2. Educational outcomes (acquired knowledge):					
Students have learnt about basic design techniques, testing architecture and TV signal receivers. The acquired knowledge forms the basis for the future professional courses.					
3. Course content/structure:					
Introduction (fundamentals of image transmission). Elements of physical architecture of TV set/ receiver- basic elements, realization of input element of TV set (tuner, demodulator), digitalization block, block for digital image processing (SRC, NR, ZOOM, scaling), block for image representation (CRT, LCD, Plasma), realization of the central control unit, with section for data handling (VBI, CC, TTX). Elements of TV system software (OS, HAL, MICTOS), elements of software for handling TV set input (tuner, demodulator), output, realization of sound control software (MSP), teletext software, user interface (remote control and menu system). Realization of algorithms for digital processing of television picture in real time in programmable sequential networks (OCP 1.0, OCP 2.0, 3DComb).					
4. Teaching methods:					
Lectures. Tutorials. Auditory practice. Computer practice. Consultations. The teaching is divided into two blocks. In the first block students attend theoretical classes during the mornings. In the afternoon they attend computer practice classes. During the second block students work on their examination papers.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Coloquium exam	No 20.00
Homework		Yes	5.00	Theoretical part of the exam	Yes 30.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Kovačević, N. Teslić, V. Mihić	Programska podška u televiziji i obradi slike 1, Skripte			2005

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Table 5.2 Course specification

Course:		Fundamentals of Computer Networks 1				
Course id: E23B						
Number of ECTS: 4						
Teachers:		Bašičević V. Ilija, Samardžija M. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		0	1		0	1
Precondition courses						
1. Educational goal:						
Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.						
2. Educational outcomes (acquired knowledge):						
Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.						
3. Course content/structure:						
Basic notions and definitions (structure of computer network, types of networks, network typologies, the Internet). Communication controllers in a computer system. Network connectivity components. Software for managing network connectivity components. Physical architecture of network connectivity processors (access, passage and combined). Network connectivity processor software. Open system architecture (application layer, adjustment layer, communication layer, transport layer, network layer, channel layer, physical layer).						
4. Teaching methods:						
Lectures: Tutorials. Computer practice. Consultations.						
Students work during the semester at computer practice classes on developing their examination paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	
Complex exercises			Yes	20.00	Coloquium exam	
Computer exercise attendance			Yes	5.00	Theoretical part of the exam	
Lecture attendance			Yes	5.00	Practical part of the exam - tasks	
Literature						
Ord.	Author		Title			Publisher
1,	V. Kovačević, M. Popović i Ž. Jurca		Osnovi računarskih mreža, skripta.			2007

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Table 5.2 Course specification

Course:		Design of Electrical Machines and Converters			
Course id: EE520					
Number of ECTS: 6					
Teachers:		Čelanović L. Nikola, Grabić U. Stevan, Porobić B. Vlado, Vasić V. Veran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses		None			
1. Educational goal:					
Acquisition of knowledge in the field of modelling of stationary and non-stationary condition and occurrences of synchronous, asynchronous and direct current machines.					
2. Educational outcomes (acquired knowledge):					
The ability to develop a mathematical model of the synchronous machine suitable for computer aided analysis- the ability to study the stationary condition and non-stationary occurrences of the synchronous machine- the ability to develop a mathematical model for the asynchronous machine suitable for the computer aided analysis- the ability to study the stationary condition and non-stationary occurrences of the asynchronous machine- the ability to develop a mathematical model for the direct current machine suitable for computer analysis- the ability to study the stationary condition and non-stationary occurrences of direct current machines.					
3. Course content/structure:					
Introduction. The basic mathematical model for the electrical machines. Parameters for electrical machines. Transformations of the original mathematical model for machines (C,F,H,G,D,B,E and T). Electrical machine types. Park's equations. Operation inductions (reaction) and the time constant of the synchronous machine. Stationary and quasi-stationary condition of the synchronous machine. Stationary condition of the asynchronous machine- the equivalent scheme. Simulation of the asynchronous machine supply. Models of asynchronous machines for method of field orientation control; electricity and voltage supply; rotor flux orientation; the analogy with the direct current machine. The model of the synchronous machine for field orientation control. Simulation of non-stationary processes in direct current machines. Non-stationary processes in synchronous machines. The synchronous machine model. A three-phase short circuit of the synchronous generator. The asynchronous operation of the synchronous machine. The non-stationary condition of the asynchronous machine. The physical explanation of the motor starting process. The analysis of the asynchronous machine starting in real environment. The direct current motor, theoretical approach. Equivalent schemes of direct current machines and the stationary operating condition. The non-stationary condition.					
4. Teaching methods:					
Classes are carried out either as lectures or as exercise classes. The lectures use modern illustrations for the intuitive understanding of the subject matter. For the full understanding of the subject matter, the auditory exercises supply examples that accompany the lectures and encourage the students to independently solve engineering problems. A part of the exercise work is carried out in the computer laboratory.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Homework		Yes	10.00		
Lecture attendance		Yes	5.00		
Project		Yes	50.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Vladan Vučković	Opšta teorija električnih mašina		Nauka Beograd	1992
2,	Ion Boldea, S.A.Nasar	Electric drives		CRC Press, New York	1999
3,	L. Čalasan, M.Petkovska	MATLAB i dodatni moduli Control System Toolbox i Simulink		Mikro knjiga, Beograd	1995
4,	D. Popović, Z. Gorečan, J. Duić, V. Vasić, V. Perić	Modelovanje u elektroenergetici			2011

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Table 5.2 Course specification

Course:		RF and microwave engineering 1			
Course id: EK322					
Number of ECTS: 7					
Teacher:		Crnojević-Bengin B. Vesna			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
Students will gain fundamental knowledge needed to work in the field of RF and microwave engineering. They will learn about the propagation of electromagnetic waves and phenomena that occur in components, circuits and systems that operate above 1 GHz.					
2. Educational outcomes (acquired knowledge):					
Fundamental theoretical knowledge about propagation of electromagnetic waves and specific characteristics of components, circuits and systems that operate at frequencies above 1 GHz. Capability to understand principles of operation, potentials and limitations of components and circuits used in the state-of the-art and next-generation wireless systems. The acquired knowledge will be used in the engineering practice as well as in further education, in courses RF and microwave engineering 2, Design of communication systems, Design of radio systems, Fundamentals of radio communications, and during master and PhD studies.					
3. Course content/structure:					
Fundamentals of electromagnetic theory. Maxwell's equations. Interaction of EM waves and materials. Electromagnetic characteristics of materials. Propagation of electromagnetic waves. Power and energy. Polarization. Reflection and transmission. Electromagnetic theorems and principles (duality theorem, theory of images). Transmission line theory. Practical realizations of transmission lines that operate at high frequencies (planar transmission lines, waveguides, surface integrated waveguides). Analysis of microwave networks. Z, Y, ABCD and S matrices. Microwave measurements and characterization. Phenomena of resonance. Resonators. Practical realizations of resonators.					
4. Teaching methods:					
Lectures. Auditory excercizes. Laboratory excercizes					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D.M. Pozar	Microwave Engineering		John Wiley & Sons	2010
2,	Vesna Crnojevic-Bengin	RF i mikrotalasna tehnika - skripta			2011

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Table 5.2 Course specification

Course:		Algorithms and Complexity				
Course id: EM402						
Number of ECTS: 6						
Teacher:		Novak O. Ladislav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	2		0	0
Precondition courses		None				
1. Educational goal:						
Providing a general overview of fundamental aspects of algorithm theory and their complexity including algorithm examples from different fields of electrical and computer engineering.						
2. Educational outcomes (acquired knowledge):						
The student who successfully completes this course will gain an insight in the basic concepts of algorithm theory and their complexity which include:						
- understanding the algorithm concept, classification of problems and algorithms, methods to prove algorithm solves each instance of the analyzed problem and complexity assessment.						
- compendium of problems in electrical and computer engineering						
3. Course content/structure:						
Problems and algorithmic solutions, alphabets and languages, machines and elementary operations, asymptotic notations, analysis of algorithms, algorithm techniques, concept of algorithmic complexity. Complexity classes and relations between complexity classes, reduction and completeness, P, NP and co-NP classes.						
4. Teaching methods:						
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance			Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Lecture attendance			Yes	5.00		
Test			Yes	20.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	L. Novak		Algoritmi i njihova složenost - skripte		FTN Novi Sad	2007
2,	Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein		Introduction to Algorithms		The MIT Press	2009
3,	Herbert S. Wilf		Algorithms and Complexity		A K Peters/CRC Press	2002

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Table 5.2 Course specification

Course:		Computers in the supervisory and control systems			
Course id: EM456					
Number of ECTS: 6					
Teachers:		Slankamenac P. Miloš, Tomić J. Josif			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
Acquiring basic knowledge of computer applications in the realization of supervisory and control systems. Introduction to the work of programmable logic controllers and their hardware and software architecture. Gaining knowledge of HMI and SCADA systems, the basic structure, application, parts. Gaining basic knowledge of industrial networks and protocols. Student mastery of modern technologies and development trends in the area of systems management. Acquiring knowledge in designing systems based on computers. Mastering the students to the realization of the SCADA system.					
2. Educational outcomes (acquired knowledge):					
Knowledge of implementation computers in the supervisory and control system design and operating principles of programmable logic controllers. The capability of understanding the principles and implementation of SCADA systems and SCADA software. Knowledge of data processing, alarms and events in the SCADA system. Training for the implementation of a simple SCADA system.					
3. Course content/structure:					
Computers in the implementation of supervisory and control systems. Programmable Logic Controllers. Introduction to HMI and SCADA systems. Elements of SCADA systems. Application of SCADA systems in the industry. Design of SCADA software. Introduction to SCADA systems (typical industrial applications, I / O modules, data sharing, alarms, data logging, industrial graphics, protection of SCADA systems, tools for creating applications). Industrial networks and protocols (EIA-232, EIA-485, Modbus, Data Highway protocol, industrial Ethernet protocol, HART, Profibus protocol, TCP-IP, radio and wireless protocols). Making SCADA applications (data sharing between stations, integrating hardware components in SCADA systems, understanding of client-server information exchange, static and dynamic I / O modules). Access to the data (project libraries, I / O servers, sharing events, create online library events). HMI interface (HMI interface implementation, graphics industrial automation, implementation of protective structures, tools for data processing and alarm, control variables, creating front panel). Alarm and event processing (understanding of the origin of alarms and events, data transmission of alarms and events, creating LabVIEW programs to process alarms and events, system events and alarms, alarm processing, event-driven programming. Data logging (data collection, view data in real time, a chronological overview of the data, working with databases, data integrity protection. Practical realization of a simple SCADA system.					
4. Teaching methods:					
Lectures, auditory exercises, laboratory exercises, consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	40.00	Written part of the exam - tasks and theory	Yes 30.00
Test		Yes	10.00	Coloquium exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Stuart Boyer	Scada: Supervisory Control And Data Acquisition		The Instrumentation, Systems, and Automation Society	2009

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Table 5.2 Course specification

Course:		High Voltage Engineering				
Course id: EE409						
Number of ECTS: 5						
Teacher:		Nimrihter D. Miroslav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		3	0		0	0
Precondition courses		None				
1. Educational goal:						
The basic course objective is acquiring knowledge about the impact of high voltage on dielectric and the environment, acquiring knowledge about preventive actions which should enable protection of human lives and material goods from the dangers of high voltage in the power electric system. Mathematical models of high voltage transient phenomena and application of technical means specific for high voltage engineering are also the goals of this course.						
2. Educational outcomes (acquired knowledge):						
The knowledge of all types, causes and mathematical modeling of over voltage phenomena, the knowledge of all types of dielectrics and processes of dielectric breakdown under the influence of over voltage phenomena, as well as protection from creation and transfer of dangerous over voltage, the knowledge of procedures for the isolation maintenance of the high voltage devices.						
3. Course content/structure:						
Over voltage. Propagation of over voltage waves. The behavior of gaseous, liquid and solid insulation in the presence of voltage. Protection of human life. Machinery and equipment protection against dangerous consequences of over voltage phenomena. Over voltage arresters. Classical and statistical insulation coordination. Management of the PES elements – preventive maintenance of dielectrics (partial discharge).						
4. Teaching methods:						
Lectures; Auditory Practice						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory		Yes 30.00
Term paper		Yes	20.00	Oral part of the exam		Yes 35.00
Test		Yes	10.00			
Literature						
Ord.	Author	Title			Publisher	Year
1,	E. Kuffel, W. Zaengl	High Voltage Engineering: Fundamentals			ELSEVIER NEWNES, Oxford	2000
2,	M. Nimrihter	ODABRANA POGLAVLJA IZ TEHNIKE VISOKOG NAPONA			U PRIPREMI	2007
3,	Milan Savić	Tehnika visokog napona			ETF, Beograd	1996

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Table 5.2 Course specification

Course:		Power System Reliability			
Course id:	EE413				
Number of ECTS:	5				
Teacher:	Nimrihter D. Miroslav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
The main course objective is acquiring knowledge about reliability/risk evaluation and control in economically justified way, in power, distribution and industrial systems. Risk evaluation in the past and risk forecast in the future. Methods for making decisions for minimizing risk for supplying consumers.					
2. Educational outcomes (acquired knowledge):					
The knowledge of the risk concept and mathematical models for evaluation of economic aspects of risk in power systems, analysis and evaluation of events from the past. The knowledge of system elements aging and causes of failure. Costs due to sudden and planned failures. Knowledge of stochastic processes for prediction of future risk in power, distributed and industrial systems (power plants, transformers, power lines, automatic devices).					
3. Course content/structure:					
Risk management for failures (impact of equipment usage duration on the risk of failure, preventive and corrective maintenance, financial consequences of failures and maintenance of entire operating costs). The assessment of economic risk indicators due to element failure of PES (mathematical modeling of the failure causes and failure consequences, controlling bodies and failure caused costs on the free electricity market). Management decision-making: implicit and explicit economic decision-making in production, transmission and distribution systems.					
4. Teaching methods:					
Lectures, Auditory practice.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Term paper		Yes	20.00	Oral part of the exam	Yes 35.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Wenyuan Li	Assessment of Power Systems-Models, Methods and Applications		IEEE PRESS	2002
2,	R. Billinton, R. Allan	Reliability Evaluation of Power Systems		Pitman Publishing	2001
3,	H. Lee Willis	Aging Power Delivery Infrastructures		Marcel Dekker, New Your	1999

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Table 5.2 Course specification

Course:		Exploitation of PES				
Course id:	EE411B					
Number of ECTS:	6					
Teacher:	Sarić T. Andrija					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	0	2	0	1		
Precondition courses		None				
1. Educational goal:						
The course objective is to give students insight into the fundamental aspects of power energy systems (PES), methods and algorithms for optimizing exploitation problems of production and transmission capacities in PES. Apart from that, the objective is to enable students to solve practical problems of managing PES through dispatching management and make decisions on plant optimization. Since most of the PES exploitation problems are mathematically very complex, one of the objectives is also to teach students how to use available ready-made programme packages for plant optimization through PES management (EMS – Energy Management System). Also one of the objectives is examination of the influence of power energy market deregulation on the process of optimal PES exploitation.						
2. Educational outcomes (acquired knowledge):						
In the end of the course, students will be able to: Consider the fundamental technical and economical characteristics of the most important elements of PES: production units (hydro and thermal power plants), transmission and distribution network (lines and transformers), consumption areas and new and renewable sources of energy; Model certain physical effects which happen under some exploitation conditions; Formulate and solve basic analytical functions of PES exploitation; Use programme packages for optimization and simulation of dispatching management in real production and transmission networks; Reach necessary conclusions on the basis of the obtained results for the purpose of PES exploitation optimization.						
3. Course content/structure:						
- Energy and exploitation features of consumers: Diagrams and curves of load duration. Diagram division. Characteristic indicators. Approximation of duration curve. Weekly, monthly and annual diagrams and curves of load duration.						
-Energy and exploitation features of hydro power plants. Hydrograph and curve of discharge duration. Modelling of hydro turbines and hydro power units. Plant limitations. Energy features of hydro power units. Calculations of power and hydro power plants energy. Possible production. Costs of production in hydro power plants (investments and exploitation, costs of the plant, maintenance and fuel).						
- Energy and exploitation features of thermal power plants. Fundamental energy features of thermal power plants, gas-turbine power plants, combined cycle plants. Production costs in thermal power plants (investment, exploitation, costs of plant, maintenance and fuel).						
-New renewable power sources. Wind power plants. Photo voltage power plants. Biomass power plants. Other new and renewable power sources.						
-PES safety. Failure classification. Models for approximate evaluation of failure effects. Sensitivity method in failure analysis. Calculation of sensitivity coefficient by DC model.						
-Economic aspects of PES exploitation. Specification of problems related to operation of power units. Function of plant costs. Limitations. Optimal load distribution in thermal and hydro-thermal systems (economic dispatching). Loss coefficients and loss formula. Hydro-thermal coordination.						
-Optimal power flow. Specification of goal and limitation function. Solution method: 1) Researching method, 2) Gradient method, 3) Newton method and 4) Method of separable linear programming						
-Basic definitions on regulation of frequency and active powers. Types of regulation. Requirements for keeping frequency. Time decomposition of functions. Primary regulation of frequency and active powers. Stationary error of frequency divergence in primary regulation. Notion of automatic second						
4. Teaching methods:						
Teaching: classic lectures and board exercises. Knowledge testing: Partial examinations and the final examination. Final examination: written part (students who successfully pass two partial examinations are exempt from the written part of the final examination) and oral part of examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	65.00
Test		Yes	10.00			
Test		Yes	10.00			
Test		Yes	10.00			

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Literature					
Ord.	Author	Title	Publisher	Year	
1,	M. S. Čalović, A. T. Sarić i P. Č. Stefanov	Eksploatacija elektroenergetskih sistema u uslovima slobodnog tržišta	Tehnički fakultet, Čačak	2005	
2,	M. S. Čalović i A. T. Sarić	Zbirka rešenih zadataka iz eksploatacija elektroenergetskih sistema, Drugo dopunjeno i prošireno izdanje	Tehnički fakultet, Čačak	2006	
3,	D. Popović, D. Bekut i V. Treskanica	Specijalizovani DMS algoritmi	DMS grupa, Novi Sad	2004	
4,	G. Švenda	Osnovi elektroenergetike – matematički modeli i proračuni	Fakultet tehničkih nauka i Stylos, Novi Sad	2008	

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Table 5.2 Course specification

Course:		Distribution Network Analysis and Management			
Course id:	EE415A				
Number of ECTS:	7				
Teacher:	Popović S. Dragan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
To study basic principles and methods of exploitation, management and control of distribution networks (DN), modern tools for solving particular practical problems and the impact of deregulated market of electricity on DN management					
2. Educational outcomes (acquired knowledge):					
Introduction to basic models for certain problems of analysis and DN management. Analytical methods and program tools for solving problems of analysis and DN management. Solving the stated problems in real DN.					
3. Course content/structure:					
Basic problems of DN analysis and management. Automatic control systems. Types and equipment in the control centers. control systems DN – DNS (description, structure, analytical power functions etc.). Calculation of the power flow and DN state estimation. Calculation of failure regime (short circuits and conductor interruptions). Voltage regulation and reactive power: Systems for reactive power compensation. Voltage regulation methods. Voltage regulation through transformer with regulation in the load and non-load state. Analysis of losses and reliability in distribution networks.					
4. Teaching methods:					
Lectures; Auditory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 35.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 35.00
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V.Strezoski, D.Janjić	Sistem regulacije napona radialnih distributivnih mreža		FTN i EPS – JP Elektrovoivodina – Novi Sad	1997
2,	D. Popović, D. Bekut i V. Treskanica	Specijalizovani DMS algoritmi		DMS Group, Novi Sad	2004

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Table 5.2 Course specification

Course:		Control of Electrical Drives			
Course id: EE427					
Number of ECTS: 4					
Teacher:		Jeftenić I. Borislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		2	0	0	0
Precondition courses None					
1. Educational goal:					
Introduction to closed loop control of DC and AC electrical drives. Understanding of various control techniques. Design of electric drive controllers. Controller synthesis with an objective to obtain optimal process response.					
2. Educational outcomes (acquired knowledge):					
After completing the course, the students are expected to: 1. Know the essential control principles of most common electric drives. 2. Define control algorithm of an electric drive based on a requirement specification and assure the safe operation of the system. 3. Make a dynamic model of electric drive system including a simple mechanical system and a simple model of a power electronic converter. 4. Use synthesis methods for tuning of linear controllers. 5. Optimize the adjustment of the controllers in the cascade control system with an objective to obtain optimal process response. 6. Make measurements to analyze electrical machines and drives operation.					
3. Course content/structure:					
Elements of controlled electric drive system. Basic closed loop topologies of electrical drives. Basic types of controllers. P, PI, PID controllers. Methods of current, speed, torque and position control. Cascade control structure. Performance criteria of the control system. Transfer functions of drive systems. Controller synthesis for first and second order systems. Quality and dynamic performances of control system. Analog and digital controller design. Control of power electronic converters and electric drives. Synthesis and controller design for a DC motor. Implementation of a scalar controlled induction motor drives. Design of controlled current induction motor drive systems. Synthesis and controller design for vector-controlled induction motor drive systems. The influence of motor parameters on the performance of the vector controlled electric drive. Direct torque control for induction motor drives. Synchronous motors in electric motor drive.					
4. Teaching methods:					
Lectures, Exercises.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Vučković	Električni pogoni		Akadska misao, Beograd	2002
2,	B. Jeftenić, V. Vasić, Đ. Oros	Regulisani elektromotorni pogoni - rešeni problemi sa elementima teorije		Akadska misao, Beograd	2004

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Table 5.2 Course specification

Course:		Entrepreneurship in ICT			
Course id: EK462					
Number of ECTS: 4					
Teacher:		Šenk I. Vojin			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		1	1	0	0
Precondition courses		None			
1. Educational goal:					
Introduction to the methods of starting the new business in the field of information-communication technologies.					
2. Educational outcomes (acquired knowledge):					
- ability to make a successful business plan					
- ability to successfully establish and manage personally owned business					
3. Course content/structure:					
- projection of the information-communication technology development in the next 10 years					
- features of the business establishment in the field of dynamic development relying on the big investments and innovation					
- market research for new products					
- business plan structure and its constituent elements (Resume, Technology Description, Business description, Market analysis, Competition analysis, Business strategy, Business process, Marketing plan, Action plan, Financial plan, Risks and ways for overcoming them)					
- practical advice for newly established business management in the field of information-communication technologies					
4. Teaching methods:					
Lectures. Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 30.00
Project defence		Yes	45.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Vojin Šenk	Preduzetništvo u informaciono komunikacionim tehnologijama (skripta)		FTN, Novi Sad	2007
2,	V. Bojović, V. Šenk, V. Rašković, M. Stanču-Mirosavljev	Vodič za inovativne preduzetnike		Konekta konsalting	2007

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Table 5.2 Course specification

Course:		Relay Protection			
Course id:	EE416				
Number of ECTS:	7				
Teacher:		Bekut D. Duško			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	3	0	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge about principles of relay operation and basic protection in power systems.					
2. Educational outcomes (acquired knowledge):					
- good knowledge of principles for protection functioning					
- ability to understand principles of relay operation					
- ability to understand principles of relay protection operation					
- ability to understand rules of relay adjustment					
3. Course content/structure:					
Introduction. Basic requirements for the relay protection. Basic classification of relays. Current relays. Voltage relays. Power relays. Distant relays. Microprocessor relays. Adaptive relays. Fuses. Electric network protection. Transformer protection. Generator protection. Engine protection. Collector protection.					
4. Teaching methods:					
Lectures; Auditory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 35.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 35.00
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1.	Duško Bekut	Relejna zaštita		Stylos, Novi Sad	1999

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Table 5.2 Course specification

Course:		Energy Converter Control				
Course id: EE425						
Number of ECTS: 4						
Teachers:		Čelanović L. Nikola, Grabić U. Stevan, Gušavac J. Strahil				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		1	1	0		0
Precondition courses						
1. Educational goal:						
Basic course objective is to acquire knowledge about techniques of power electronic converter control, analysis of all elements in the controlled structure of the device, their modeling, calculation of the controller parameters, simulation of the device operation and finally entering and adjusting parameters in the real system and checking the obtained results. The goal is to unite these elements into a specific system of the power converter for the application in electromotor drives and elsewhere.						
2. Educational outcomes (acquired knowledge):						
Students are trained to know the methods of energy converter control, methods of control system analysis, methods and tools for converter modeling and to acquire the ability to measure properties on the specific devices and test their performance, and apply such device in the modern electromotor drives.						
3. Course content/structure:						
Introduction. Basic components of management-control circuits. Sensors and adjusting circuits. Working principles and selection of control circuits. Structure and programme realization of digital control circuit. Management in electromotor drives – principles, methods, hardware. Management-control circuit for phase controlled converters. Principles, types and classification techniques of pulse-width modulation (PWM). Management-control circuits for power converters with PWM control (PWM chopper, PWM inverter). Modulation of space vector. Inverter control in the drive with electric machine and inverter connected to the electrical network. U/F, scalar, vector control. Alternating converter control.						
4. Teaching methods:						
The course consists of the presentation of theoretical operation and design principles in the lectures, through practical work in the laboratory and independent work on designing the given project.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Homework		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Homework		Yes	5.00			
Laboratory exercise attendance		Yes	5.00			
Laboratory exercise defence		Yes	30.00			
Lecture attendance		Yes	5.00			
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Vladimir Katić	Upravljanje energetskim pretvaračima		FTN - skripta		2007
2,	William Shepherd	Power Electronics and Motor Control		CRC Press, ISBN 0824750543		2004

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Table 5.2 Course specification

Course:		Databases			
Course id:	EE417A				
Number of ECTS:	3				
Teachers:	Luković S. Ivan, Mihajlović R. Dragan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Basic students' education in databases. Students gain fundamental knowledge in databases and learn basic techniques of implementation, use and maintenance of databases.					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge is used in practice, in projects of database and information system development, as well as in advanced courses requiring a use of basic knowledge in databases.					
3. Course content/structure:					
The evolution of data management process and the notion of a database. Basic concepts and characteristics of data models. ER data model. Relational data model. A classification and types of database constraints in the relational data model. Functional dependency and the relation scheme key. Basic design techniques of relational database schemas. Basic characteristics of database management systems. The use of SQL in creating database schemas and data manipulation.					
4. Teaching methods:					
Teaching is performed through lessons, oral and computer exercises (in the computer classroom), as well as consultations. Through the teaching process, students are constantly motivated to an intensive discussion, problem oriented reasoning, independent study work and active participation in the whole lecturing process. The prerequisite to enter final exam is to complete all the pre-exam assignments by earning at least 30 points.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	10.00	Oral part of the exam	Yes 30.00
Complex exercises		Yes	10.00		
Complex exercises		Yes	10.00		
Complex exercises		Yes	10.00		
Project task		Yes	15.00		
Project task		Yes	15.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Mogin Pavle, Luković Ivan	Principi baza podataka		Fakultet tehničkih nauka, Novi Sad	1996
2,	Mogin Pavle, Luković Ivan, Govedarica Miro	Principi projektovanja baza podataka, II izdanje		Fakultet tehničkih nauka, Novi Sad	2004
3,	Date C. J.	An Introduction to Database Systems (8th Edition)		Addison Wesley	2004
4,	Mihajlović Dragan	Informacioni sistemi i projektovanje baza podataka		Fakultet tehničkih nauka, Novi Sad	1998
5,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition		McGraw-Hill, Inc.	2009

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Table 5.2 Course specification

Course:		Power Electronic in Drive and Industry			
Course id: EE424A					
Number of ECTS: 5					
Teachers:		Porobić B. Vlado, Vasić V. Veran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
The basic course objective is to acquire knowledge related to the application of power electronics in industrial drives, analysis of the electromotor drive structures, types of measuring and sensor equipment, programmable logic controllers and monitoring systems.					
2. Educational outcomes (acquired knowledge):					
- the knowledge of the types of power electronics converters and methods of analysis of their operation					
- the knowledge of the acquisition techniques and signal processing in industrial environment					
- the knowledge of the control methods and industrial process management					
3. Course content/structure:					
Introduction. Design of power electronics devices for drive and industry. Place and importance of power converter and drive modeling. Classification of simulation tools. Methods of power electronics system simulation in regulated drives. Methods of power converter modeling. Idealization and approximation. General types of converters. Place and importance of power electronic devices in drives. Alternating machines in industry. Pulse width modulation techniques. Scalar and vector control. General characteristics of frequency controllers. Sensors in industry. Types. Programmable logic controllers. Industrial networks. Monitoring and acquisition systems. Procedure of making the device. Packaging and protection. Radiation and higher harmonics-electromagnetic compatibility (EMC). Technical documentation. Standards and testing.					
4. Teaching methods:					
Lectures and laboratory practice are focused on introduction to and independent handling of contemporary elements of industrial automation. A visit to the factories is planned in order to fully understand the theoretically taught and practically tested matter.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	60.00	Oral part of the exam	Yes 30.00
Laboratory exercise attendance		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	V.Vasić, Đ. Oros	Energetska elektronika u pogonu i industriji		FTN, Novi Sad	2012
2,	B.Dokić	Energetska elektronika-pretvarači i regulatori		ETF – Banja Luka	1999

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Table 5.2 Course specification

Course:		Testing of electrical machines			
Course id:	EE419A				
Number of ECTS:	6				
Teacher:	Oros V. Đura				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses		None			
1. Educational goal:					
The main course objective is to acquire knowledge about electric machines, their characteristics and methods of measurement and testing.					
2. Educational outcomes (acquired knowledge):					
- the knowledge of all types of electric machines - the knowledge of methods for recording characteristics - the knowledge of methods and tools for checking parameters of electric machines					
3. Course content/structure:					
Introduction (Basic types of testing. Testing during the production process, final testing. Official written documents during electric machine testing. General-visual machine examination.) Measuring the non-electric properties (temperature, velocity, momentum). Testing the transformer. (Routine and type tests. Tolerance. Checking the ferromagnetic core and oil. Measurement of winding resistance and checking the end marks and types of feedback. Short circuit experiment. Idling experiment. Dielectric strength experiment. Heating experiment.) Testing the asynchronous machines. (Routine and type testing. Tolerance. Idling experiment. Testing during the short circuit. Load method. Dielectric strength experiment. Determining mechanical properties.) Testing the synchronous machines. (Testing during production. Anchoring test. Idling experiment. Short circuit experiment. Properties of reactive load, regulation and external properties. Determining the reactance. Determining the changes of voltage and excitation current. Determining losses and efficiency.) Testing of DC machines. (Measurement of winding resistance. Determining the neutral zone. Idle testing. Commutation check-up. Determining losses and efficiency.) Testing of electrical generators.					
4. Teaching methods:					
Lectures are held using the modern learning resources. Testing the required knowledge before practice. Laboratory Practice-where students get the problem in advance and approach testing of el. Machines. Laboratory practice is assessed and the grade has an impact on the final course grade.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	40.00	Oral part of the exam	Yes 30.00
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	R. Wolf	Ispitivanje električnih mašina		Školska knjiga	2000
2,	M. Petrović	Ispitivanje električnih mašina		Naučna knjiga	2000

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Table 5.2 Course specification

Course:		English Language - First Certificate 2			
Course id: EJE6					
Number of ECTS: 2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		0	0	0	0
Precondition courses					
1. Educational goal:					
To further master and develop all language skills at the B2 level of Common European Framework of Reference for Languages within this course. Mastering the vocabulary and grammar covered by the course and the second part of the planned literature.					
2. Educational outcomes (acquired knowledge):					
Students are able to read, write, listen and speak at the level which approximates the B2 level of the Common European Framework of Reference for Languages. They possess rich vocabulary related to the topics covered within the course (the second part of literature) and use it adequately. They are confident in using grammar defined for this level.					
3. Course content/structure:					
Grammar is covered by literature for this course at the B2 level of the Common European Framework of Reference for Languages. Vocabulary is related to topics covered by literature. Development of all language skills at this level within the given literature (the second part of the textbook).					
4. Teaching methods:					
The emphasis is placed on student activities during the class, their interaction with the teacher and between themselves. The communicative approach is used in the foreign language lectures.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test		Yes	10.00	Oral part of the exam	Yes 30.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Simon Haines and Barbara Stewart	First Certificate Masterclass(units 7-12)		Oxford University Press	2000
2,	Simon Haines and Barbara Stewart	First Certificate Language Practice		Oxford University Press	2000
3,	Grupa autora	Oxford English - Serbian Dictionary		OUP	2006

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Table 5.2 Course specification

Course:		Professional Practice				
Course id:	E1SP1L					
Number of ECTS:	2					
Teachers:						
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:	Other classes:	
0	0	0		0	3	
Precondition courses		None				
1. Educational goal:						
Acquiring direct knowledge about activities and organization of companies and institutions dealing with profession chosen by the student and possibilities of application of previously acquired knowledge in practice.						
2. Educational outcomes (acquired knowledge):						
Enabling students to apply previously acquired theoretical and professional knowledge for solving specific practical engineering problems within the chosen company and institution. Introducing students to the activities of the chosen company or institution, to the ways of doing business, management and place and role of the engineer in their organizational structures.						
3. Course content/structure:						
It is created individually for each candidate, in agreement with the company or institution management where professional practice is taking place, and in accordance with the needs of profession for which the student is being trained.						
4. Teaching methods:						
Consultations and professional practice journal writing where the student describes activities done during the professional practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Literature						
Ord.	Author	Title			Publisher	Year

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Table 5.2 Course specification

Course:		Preparation and Defence of Graduate Thesis			
Course id:	E1DR1				
Number of ECTS:	12				
Teachers:					
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	0	10	
Precondition courses		None			
1. Educational goal:					
Application of basic acquired knowledge and methods in solving practical problems within the selected area. Students investigate the problem, its structure and complexity, and based on conducted analysis, they draw conclusions on the possible modes of solving. Researching the literature, students are introduced to the methods for solving similar tasks, and the practice in their solving. Obtaining the knowledge on modes, structure and form of writing a report after the conducted analyses and other activities within the set topic of the final thesis. By elaborating the final thesis, students acquire experience for writing their theses where it is necessary to describe problems, conducted methods and procedures, as well as results obtained. Furthermore, the objective of elaborating and defending the final thesis is to develop the ability to use the results of individual work and prepare it in an adequate form to be publicly presented.					
2. Educational outcomes (acquired knowledge):					
Enabling students for individual application of the previously obtained knowledge in diverse fields being studied in order to observe the structure of the set problem and approach the systematic analysis to draw conclusions on possible directions of its solving. By individually using the literature, students expand their knowledge in the selected field and research diverse methods and theses related to similar problems. By individually researching and solving tasks in the given area, students acquire knowledge on the complexity of the problems in their professional field. By elaborating the graduate thesis, students acquire certain experiences that can be applied in practice while solving problems in their professional field. By preparing the results for public defence, in the public defence and on answering questions and comments presented by the committee, students acquire necessary experience on the manners of practically presenting results of an individual or team work.					
3. Course content/structure:					
Formed for each student in particular, in accordance with the demands and the area enclosed within the set task of the final thesis. The student, in agreement with the mentor, completes the final thesis in the written form in accordance with the regulations of the Faculty of Technical Sciences. The student prepares and defends the written final thesis in public, in agreement with the mentor and in accordance with the prescribed standards. Student researches the professional literature, specialization and final thesis dealing with the same topic, performs analyses in order to find the solution to the concrete task defined in the task of the final thesis.					
4. Teaching methods:					
The mentor of the final thesis sets the task of the final thesis and presents it to the student. Student is obliged to elaborate the final thesis within the set task defined in the task of the graduate thesis. During the elaboration of the final thesis, mentor can provide additional instructions to the student, direct to certain literature and additionally direct in order to have a more qualitative final thesis. Within the theoretical part of the final thesis, student has consultations with the mentor, and if needed, with other teachers dealing with the topics related to the topic of the graduate thesis. Within the set topic, if needed, student can conduct certain measuring, researching, counting, surveying and the like, if it is predicted by the final thesis task. Student completes the final thesis and on obtaining the agreement of the committee for evaluation and defence, provides bounded copies to the committee. The defence of the graduate thesis is public, and the student has the o					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Writing the final paper with theoretic basis		Yes	50.00	Final exam defence	Yes 50.00

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Table 5.2 Course specification

Course:		Project Management			
Course id:	EI408				
Number of ECTS:	4				
Teachers:		Sovilj M. Platon, Župunski Ž. Ivan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
The acquisition of knowledge in project management, especially project management in electrical engineering and computer science.					
2. Educational outcomes (acquired knowledge):					
understanding of the importance of project management, understanding the various methodologies of project management, the ability to work in project teams in the role of project manager, as well as other project roles, the ability to search the literature and other forms of information in the field of project management and capability of presentation of research results;					
3. Course content/structure:					
The importance of project management. The application of project management in different parts of business. The application of project management in the electrical engineering and computer science. Basic concepts and definitions of project management. The role of the project manager. < PMBOK and other project management methodologies. The process of initiating projects. Assessing the feasibility of the project. Project Planning. Defining the project goals. Project scope and exclusions. The project outcomes. Analysis of required resources and stakeholders. Critical success factors of the project. Project communication plan. Plan of changes. Quality Management Plan for the project. Risks in project management. Analysis of the structure of work (WBS). Creating a project team. Metrics, and evaluation of the accuracy of the project. Network diagrams. CPM and PERT method. Gantt charts. Phases of execution, control and supervision of the project and the conclusion. Microsoft Project as a software project management tool.					
4. Teaching methods:					
Lectures, auditory exercises, laboratory exercises, consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes 30.00
Project		Yes	30.00	Oral part of the exam	Yes 20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Paula Martin and Karen Tate	Getting Started in Project Management		John Wiley & Sons, Inc.	2001
2,	Gerard M. Hill (ed)	The Complete Project Management Office Handbook		Auerbach Publications	2004

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Table 5.2 Course specification

Course:		Design and development of industrial devices and measurement systems 2				
Course id:	EIPMS2					
Number of ECTS:	6					
Teachers:		Milovančev S. Slobodan, Mitrović Lj. Zoran, Pejić V. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	2		0	1
Precondition courses						

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Table 5.2 Course specification

Course:		Virtual measurement systems								
Course id:	EIVI									
Number of ECTS:	6									
Teachers:		Tomić J. Josif, Sovilj M. Platon, Vujičić V. Vladimir								
Course status:		Elective								
Number of active teaching classes (weekly)										
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:			
2		0		3		0	0			
Precondition courses							None			
1. Educational goal:										
Students acquire knowledge in the field of virtual measurement instruments and remote laboratories.										
2. Educational outcomes (acquired knowledge):										
The ability to design and apply virtual measurement instruments and virtual laboratories.										
3. Course content/structure:										
Acquisition of huge amount of data, specific algorithms of data processing, technical data bases, archiving raw and processed data, measurement in high level electrical noise environment.										
4. Teaching methods:										
Lectures. Laboratory practice.										
Knowledge evaluation (maximum 100 points)										
Pre-examination obligations				Mandatory	Points	Final exam		Mandatory	Points	
Project				Yes	50.00	Written part of the exam - tasks and theory		Yes	30.00	
							Oral part of the exam		Yes	20.00
Literature										
Ord.	Author			Title			Publisher		Year	
1.	Labview			Labview Measurements Manual			Labview		2000	

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Table 5.2 Course specification

Course:		Audio and Video Technologies			
Course id:	EK451				
Number of ECTS:	5				
Teachers:	Delić D. Vlado, Trpovski V. Željen				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Present new audio and video technology, and standards for recording, transmission and reproduction of audio and video signals. Describe the principles of operation of audio and video equipment and presentational system. Present audio and video technology in radio and television studios, as well as their transmission technique. Explain the formats of audio and video signals and tools for their digital processing in multimedia.					
2. Educational outcomes (acquired knowledge):					
Students will learn about the nature of sound and image, what and how a person perceives and differentiates. Based on this, they will understand the concept of systems for digitizing, compressing, processing and transmission of audio and video signals. They will introduce the basic principles of operation and connections of microphones and speakers, audio and video mixers, cameras, monitors and projectors. They will understand the models of speech production and perception, and algorithms for coding and speech recognition based on those models. Students will learn the concept of temporal and spatial resolution, as well as the principles on which the analog and digital image transmission are based. They will also learn the basic modulation methods used in digital television.					
3. Course content/structure:					
• The physical and physiological characteristics of sound and image (what people can hear and see, audible and visual range). • Standards for coding/compression and transmission of audio signals (Dolby, AAC, MPEG, HD and 3D sound). • Audio signal broadcasting (FM stereo, RDS) and digital audio transmission (GSM, VoIP, DAB - digital radio). • Formats for recording and transmission of audio and video information in multimedia environment (MIDI, JPEG, MPEG, HD and 3D). • Devices for recording and reproductions of sound and video (microphones, loudspeakers, and headphones; cameras, monitors, and projectors). • Audio and video mixers and other AV devices. Audio monitoring and sound editing, multi-channel recording (5.1, 7.1, 10.2,...)). • Audio systems for recording of voice and music program (selection and placement of microphones, sound for film and video). • Acoustical quality of both professional rooms and audio systems (studio, (home) cinema, concert halls). • Sound systems design for both indoor and outdoor rooms. Microphone and loud speaker systems for high quality reproduction. • Modelling of speech production and perception. Digital analysis and coding of speech signal (PCM, LPC, CELP). • Introduction to speech technologies: automatic speech recognition, speaker and emotion recognition, text to speech synthesis. • Principles of transmission of video signal. Analog system limitations. • Reasons for digitization of TV broadcasting. Properties and possibilities of digital systems. • TV compression procedures. Digital TV signal transmission.					
4. Teaching methods:					
Lectures are conducted using Power Point presentations that are available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the material (audio technology) is followed by exercises in the Laboratory of Acoustics and Speech Technologies at FTN. The second part of the course (video technology) is followed by exercises and visits to Radio and Television Vojvodina, where students will learn about the practical audio and video engineering, music and speech studies, and anechoic room. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through web portal of Chair of Telecommunications and Signal Processing - www.ktios.net.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Presentation		Yes	10.00	Written part of the exam - tasks and theory	Yes 50.00
Term paper		Yes	20.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Miomir Mijić	“Audio sistemi”		Akadska misao, Beograd	2011
2,	Željen Trpovski	Skripta sa predavanja		www.ktios.net	2012
3,	Vlado Delić	Skripta sa predavanja		www.ktios.net	2012

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Table 5.2 Course specification

Course:		SCADA Systems Design			
Course id:	EK453				
Number of ECTS:	5				
Teachers:	Milošević S. Vladimir, Stefanović D. Čedomir				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	0	
Precondition courses		None			
1. Educational goal:					
Mastering the basics of SCADA systems as well as their design.					
2. Educational outcomes (acquired knowledge):					
Theoretical knowledge, principles of design, use of programme simulations.					
3. Course content/structure:					
1. Basic principles of automatic control over technical systems					
2. Levels of control of a technical system (local manual, remote manual, local automatic, remote automatic)					
3. Elements of SCADA (Supervisory Control and Data Acquisition) systems:					
•Centre for monitoring and control of the system (MCC - Master Control Centre)					
•Remote Terminal Unit (RTU) - PLC					
•Subsystem for communication between MCC and all RTUs in controlled objects					
4. Communication subsystem and communication devices (physical lines, radio systems)					
5. Communication protocols of SCADA systems:					
•Industry protocols (e.g.: Modbus, RP-570, Profibus, Conite), their common elements and particularities					
•Dependency of processing on the type and quality of the data.					
6. Architecture of SCADA systems (monolithic, distributed, network-based)					
7. Principles of the design of SCADA systems:					
•Human-machine interaction					
•SCADA systems at long distances					
•Internet based SCADA					
•Cryptographic security of SCADA communications					
4. Teaching methods:					
Lectures are carried out using PowerPoint presentations available to students in PDF format. Multimedia presentations illustrate key details at the lectures. Individual work of the student is supported by the web portal of the Chair for Telecommunications and Signal Processing.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	30.00	Written part of the exam - tasks and theory	Yes 50.00
Test		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. B. Dragović	Antene i prostiranje radio talasa		Elektrotehnički fakultet, Beograd	1996
2,	T. S. Rappaport	Wireless Communications – Principles & Practice		Prentice Hall	1996
3,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna knjiga, Beograd	1973

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Table 5.2 Course specification

Course:		Communication Systems Design							
Course id:	EK464								
Number of ECTS:	5								
Teachers:		Petrović S. Vladimir, Šenk I. Vojin							
Course status:		Elective							
Number of active teaching classes (weekly)									
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:		
2		1		1		0	0		
Precondition courses							None		
1. Educational goal:									
Mastering the methods of communication system design.									
2. Educational outcomes (acquired knowledge):									
Readiness to work in an engineering institution.									
3. Course content/structure:									
Law and other conditions for acquiring an engineering license. Designing systems for coaxial cables. Designing the pair system. Designing optic communication systems.									
4. Teaching methods:									
Lectures and Project.									
Knowledge evaluation (maximum 100 points)									
Pre-examination obligations				Mandatory	Points	Final exam		Mandatory	Points
Homework				Yes	5.00	Coloquium exam		Yes	30.00
Lecture attendance				Yes	5.00				
Project defence				Yes	60.00				
Literature									
Ord.	Author			Title			Publisher		Year
1.	V. Milošević, V. Šenk			Projektovanje komunikacionih sistema			Skripta		2008

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Table 5.2 Course specification

Course:		Computer Electronics			
Course id:	EM404A				
Number of ECTS:	5				
Teachers:		Bošković M. Dragan, Malbaša D. Veljko			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	0	
Precondition courses					
1. Educational goal:					
To train students for modeling, design, verification, simulation, testing and implementation of complex digital circuits and systems in which hardware modules of high degree integration use components such as microprocessors, DSP, memories and dedicated hardware modules.					
2. Educational outcomes (acquired knowledge):					
Students who successfully complete this course will be able:					
<ul style="list-style-type: none">- to design a model of a complex digital integrated circuit based on the given specification and with available hardware components of high degree integration,- to apply contemporary software tools in design, verification, simulation, testing and implementation of complex digital integrated circuits which consist of hardware modules of high degree of integration,- to assess performance and parameters of complex digital integrated circuit,- to apply methods for design of complex digital circuits with low consumption.					
3. Course content/structure:					
Models of complex digital integrated circuits where finished modules of high degree of integration are used. Specifications of complex digital systems. Procedure of modeling, design, verification, simulation, testing and implementation of complex digital circuits and systems where hardware modules of high degree of integration are used as components. Software tools. Assessment and performance adjustment of complex digital systems. Assessment of parameters of complex digital systems. Complex digital systems with low consumption.					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	30.00	Theoretical part of the exam	Yes 40.00
Laboratory exercise defence		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	P. Rashinkar, P. Paterson, L. Singh	System-on-a-Chip, Verification		Kluwer Academic Publishers	2002

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Table 5.2 Course specification

Course:		System Level Design				
Course id:	EM458					
Number of ECTS:	6					
Teachers:		Dautović B. Staniša, Struharik J. Rastislav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		0	3	0		0
Precondition courses						
1. Educational goal:						
Acquiring knowledge about the system level design techniques of embedded systems. Learning how to use standard languages, techniques and methodologies, as well as tools for the successful design of embeded system at the system level.						
2. Educational outcomes (acquired knowledge):						
- ability to develop a system level model of the embedded system using some of the standard System Level languages						
- ability to profile and optimize system level performance based on the design goals						
- ability to verify developed embedded system at the system level						
3. Course content/structure:						
Methodology of System-Level design. Models of computation used at system level: finite state machines (FSMs), dataflow, process networks. System-Level design languages: MATLAB, SystemC, SpecC. System-Level modeling: transaction-level modeling (TLM) for communication, processor and RTOS modeling. Specification, profiling and analysis of HW/SW systems. Codesign of hardware and software. System-Level design methodologies and tools for: partitioning, scheduling and communication synthesis. High Level synthesis. System-Level design of low power systems. Verification at the System-Level: verification based on simulation, verification based on formal methods, coverification of hardware and software.						
4. Teaching methods:						
Lectures. Computer labs. Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory		Yes 40.00
Test		Yes	10.00	Coloquium exam		Yes 20.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	D. D. Gajski, S. Abdi, A. Gerstlauer, G. Schirner	Embedded System Design: Modeling, Synthesis, Verification			Springer Verlag	2009
2,	M. Fujita, I. Ghosh, M. Prasad	Verification Techniques for System Level Design			Morgan Kaufmann	2008
3,	B. Bailey, G. Martin, A. Piziali	ESL Design and Verification - A Prescription for Electronic System Level Methodology			Morgan Kaufmann	2007

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Table 5.2 Course specification

Course:		Functional Verification of Hardware				
Course id: EM459						
Number of ECTS: 6						
Teacher:		Struharik J. Rastislav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses						
1. Educational goal:						
Acquiring knowlegde of basic methods and tools in the field of functional verification of digital electronic systems. Introduction to the basic characteristics of the hardware verification languages.						
2. Educational outcomes (acquired knowledge):						
- ability to create functional veirification plan based on the functional specification of the system						
- ability to develop a verification environment using some of the existing hardware verification languages (HVLs)						
- ability to conduct funcional verification of complex digital system using developed verification environment						
3. Course content/structure:						
Importance of verification. Functional verification. Functional verification flow. Verification plan. Verification environment. Basic components of the verification environment. Mesuring coverage of the verification plan. Code coverage. Functional coverage. Verification based on coverage measurement. Functional verification languages "e" and System Verilog. Industrial tools for the functional verification of hardware.						
4. Teaching methods:						
Lectures. Computer labs. Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence			Yes	20.00	Written part of the exam - tasks and theory	Yes 40.00
Test			Yes	20.00	Coloquium exam	Yes 20.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	A. Meyer		Principles of Functional Verification		Newnes	2003
2,	A. Piziali		Functional Verification Coverage Measurement and Analysis		Springer Verlag	2004
3,	S. Palnitkar		Design Verification with e		Prentice Hall	2003
4,	C. Spear, G. Tumbush		SystemVerilog for Verification		Springer Verlag	2012

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Table 5.2 Course specification

Course:		Ionizing and Non-Ionizing Radiation and Protection			
Course id:	EIJNZZ				
Number of ECTS:	6				
Teacher:		Spasić-Jokić M. Vesna			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Detailed introduction to the physical basics of functioning of various types of detectors and spectrometers of ionizing and non-ionizing radiation. Introduction to the principles of radiological safety, criteria in selection of detectors for radiation protection monitoring. Training in designing systems for human and equipment protection for ionizing and non-ionizing radiation.					
2. Educational outcomes (acquired knowledge):					
Introduction to the basic detection mechanisms of ionizing and non-ionizing radiation. Training in proper use of measurement instruments. Introduction to the operation methods of measurement instruments and measurement methods. Introduction to the application scope and limitations. Training in the application of criteria in selection of radiation detectors and monitors. Introduction to the metrology fundamentals. Introduction to the physical and biological fundamentals of ionizing and non-ionizing radiation. Training in designing systems for human and equipment protection from ionizing and non-ionizing radiation.					
3. Course content/structure:					
Fundamentals of radioactivity (ionizing radiation, physical parameters, measurement units); Interaction of ionizing and non-ionizing radiation with the matter; External and internal irradiation; Biological effects of ionizing radiation; Non-ionizing radiation – basic terms; Biological effect of non-ionizing radiation; Measurement of ionizing and non-ionizing radiation; Radiation protection (basic principles, dosage limits, organization, risk assessment, personal dosimetry); Legislation (Law on Protection of ionizing radiation, Law on protection of non-ionizing radiation, European directives); Metrological security; Incident and accident; Parameters in dosimetry of ionizing and nonionizing radiation. Detectors and spectrometers of ionizing radiation (gas, semiconductor, scintillation detectors, cloud, bubble and spark chambers, photographic emulsions, alpha, beta and gamma spectrometry, detection and spectroscopy of slow and fast neutrons). Detection of non-ionizing radiation, Biological effects of RF and microwave fields; Environmental monitoring; Individual monitoring; Principles of radiation safety.					
4. Teaching methods:					
Lectures; Auditory Practice, Cinsultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Theoretical part of the exam	Yes 70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	G. F. Knoll	Radiation Detection and Measurement		John Wiley & Sons, Inc.	1999
2,	James Martin and Chul Lee	Principles of Radiological Health and Safety		John Wiley & Sons, Inc.	2002

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Table 5.2 Course specification

Course:		Methods of measurement and measurement-acquisition systems in biomedicine			
Course id:	EIMMBM				
Number of ECTS:	6				
Teachers:		Sovilj M. Platon, Milovančev S. Slobodan, Vujičić V. Vladimir			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge in the field of measurement methods and measurement-acquisition systems in biomedicine.					
2. Educational outcomes (acquired knowledge):					
Understanding, working principles and structure of the biomedical measurement data acquisition system. Knowledge of the measurement methods in the biomedicine, ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem solving related to biomedical measurement. Ability to perform an effective literature search and to utilize other types of information sources in the field of biomedical measurement. Knowledge and comprehension of the application of the Electrical and Computer Engineering in the field of the biomedical measurement.					
3. Course content/structure:					
Structure and modules of the biomedical measurement-acquisition systems. Measured quantities in the biomedical measurement. Types and characteristics of the biomedical measurement-acquisition systems: measured quantities, Ranges of the measured quantities, Frequency ranges of the measured quantities and standard measurement methods. Transducers in biomedical measurement-acquisition systems. Signal conditioning in the biomedical measurement-acquisition systems. Digital signal conditioning in the biomedical measurement-acquisition systems. The role of computer and communication technology in biomedical measurement-acquisition systems. Software application for data acquisition. Introduction to measurement methods for different physical quantities in the measurement in the field of biomedicine. Analogue measuring instruments in biomedicine. Digital measuring instruments in biomedicine. Methods for measuring the electro-physiological signal. Measurement of the electric activity of nerve cells. Measurement of the electric activity of muscles. Measurement of the cardiac electrical activity. Methods for galvanic response measurement. Methods for displacement measurement in biomedicine. Methods for pressure and force measurement in biomedicine. Methods for cardiac rhythm measurements. Methods for blood pressure measurement. Lung capacity measurement and the speed of air during inhalation. Blood, tissue and organic liquids chemistry measurement. Methods for gas concentration measurement in medicine. Methods for measurement of partial pressure of gases in medicine. Spectrophotometric measurement of gas and liquid content in medicine. Methods for quantitative determination of particles in blood. Methods for body temperature measurement. Methods for artery and vein pressure measurement. Methods for blood flow measurement. Methods for blood volume displacement measurement. Blood pH and gastric acidity measurement. Respiratory rhythm measurement. Respiratory rate measurement.					
4. Teaching methods:					
Lectures, Auditory practice, Laboratory practice, Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Laboratory exercise defence		Yes	30.00		
Lecture attendance		Yes	5.00		
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. B. Popović, M. B. Popović, M. Janković	Biomedicinska merenja i instrumentacija		Akadska Misao, Beograd	2010
2,	D. Popović, M. Popović	Biomedicinska instrumentacija i merenja		Nauka, Beograd	1997
3,	A. Lay-Ekuakille	Advances in Biomedical Sensing, Measurements, Instrumentation and Systems		Springer	2009
4,	P. Sovilj	Stohastičko digitalno merenje EEG signala		Fakultet tehničkih nauka u Novom Sadu	2010

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Table 5.2 Course specification

Course:		RF and microwave engineering 2			
Course id:	EK454				
Number of ECTS:	5				
Teacher:		Crnojević-Bengin B. Vesna			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	0	
Precondition courses		None			
1. Educational goal:					
Students will gain advanced and applicable engineering knowledge in the field of RF and microwave engineering, which can be used in the engineering practice to design components, circuits and systems that operate above 1 GHz, such as Bluetooth, Wireless LAN and others.					
2. Educational outcomes (acquired knowledge):					
Advanced and applicable engineering knowledge in analysis and design of components, circuits and systems that operate at frequencies above 1 GHz. Capability to design components and to apply already existing components in the development of state-of the-art and next-generation wireless systems. The acquired knowledge will be used in the engineering practice as well as in further education, in courses Design of communication systems, Design of radio systems, Fundamentals of radio communications, and during master and PhD studies.					
3. Course content/structure:					
Overview of state-of-the-art wireless systems that operate above 1 GHz. Microwave passive circuits. Design of planar and waveguide resonators. Filter theory. Filter design using insertion loss method. Various types and configurations of filters. Antenna theory. Antenna design. Various types and configurations of antenna. Antenna systems. Microwave measurements. Other applications of microwaves (sensors, microwave heating, wireless energy transfer, electronic warfare, microwave weapons, biological effects and safety).					
4. Teaching methods:					
Lectures. Auditory excercizes. Computer excercizes					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	20.00	Theoretical part of the exam	Yes 30.00
Exercise attendance		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D.M.Pozar	Microwave engineering		John Wiley & Sons	2010
2,	Vesna Crnojević-Bengin	RF i mikrotalasna tehnika			2011

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Table 5.2 Course specification

Course:		Design of Radio Systems				
Course id: EK461						
Number of ECTS: 5						
Teacher:		Milošević S. Vladimir				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		1	1		0	0
Precondition courses		None				
1. Educational goal:						
Mastering the techniques of radio link budget calculation: propagation modelling and prediction of EM field level.						
2. Educational outcomes (acquired knowledge):						
Theoretical knowledge, use of programme simulations.						
3. Course content/structure:						
Fading and multipath propagation (LTV model of radio channels). Modelling of the influence of atmosphere, ground, vegetation... The concept of unavailability. Methods of prediction of EM field level. Budget calculation of fixed and mobile radio links. Radio relay links. Properties of particular types of radio systems.						
4. Teaching methods:						
Lectures, computer exercises, consultative sessions, homework.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Homework			No	10.00	Theoretical part of the exam	Yes 20.00
Laboratory exercise defence			Yes	20.00		
Project defence			Yes	60.00		
Literature						
Ord.	Author	Title			Publisher	Year
1,	M. B. Dragović	Antene i prostranje radio talasa			Elektrotehnički fakultet, Beograd	1996
2,	W. C. Jakes	Microwave Mobile Communications			John Wiley & Sons, New York	1974
3,	A. F. Molish	Wideband Wireless Digital Communications			Prentice Hall, New Jersey	2001
4,	T.S. Rappaport	Wireless Communications – Principles & Practice			Prentice Hall, New Jersey	1996
5,	G. L. Stueber	Principles of Mobile Communication			Kluwer Academic Publishers, Boston	2000
6,	W.C.Y. Lee	Mobile communications engineering			McGrow-Hill, New York	1982
7,	W.C.Y. Lee	Mobile cellular telecommunications systems			McGrow-Hill, New York	1989

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Table 5.2 Course specification

Course:		Architectures of digital signal processors					
Course id:	EK465						
Number of ECTS:	5						
Teachers:		Kovačević V. Jelena, Teslić Đ. Nikola					
Course status:		Elective					
Number of active teaching classes (weekly)							
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:	
2		1	2	0		0	
Precondition courses						None	
1. Educational goal:							
Mastering the architecture design for digital signal processing, with an emphasis on the architecture processors for digital signal processing and their programming.							
2. Educational outcomes (acquired knowledge):							
Mastering the basic designing techniques and testing the architecture for digital signal processing (DSP). Acquired knowledge is the basis for further professional courses.							
3. Course content/structure:							
Introduction. Processor architecture for digital signal processing (Von Neuman and Harvard architecture, RISC and DSP, parallel processing, flow architecture, DSP resources: ALU, memory and feedback system, dedicated DSPs: DSP for audio signal processing, DSP for video signal processing). VLSI technology for DSP. Processor arithmetics for digital signal processing (data format, numerical presentation methods, basic operations ADD, MUL and MAC, specific operations: complex arithmetic, cordic, convolution and vector arithmetic). DSP programming (real time operation, programme languages: C and Assembler, tools: translator, simulator and debugger, testing).							
4. Teaching methods:							
Lectures. Tutorials. Computer Practice. Consultations.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points
Homework		Yes	5.00	Written part of the exam - tasks and theory		Yes	40.00
Homework		Yes	5.00				
Term paper		Yes	20.00				
Term paper		Yes	20.00				
Literature							
Ord.	Author	Title			Publisher		Year
1,	V. Kovačević, M. Temerinac, M. Popović, N. Teslić	Arhitekture i algoritmi DSP-a I			FTN Novi Sad		2004

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Table 5.2 Course specification

Course:		Telecommunication electronics			
Course id:	EM411A				
Number of ECTS:	6				
Teacher:	Videnović-Mišić S. Mirjana				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses					
1. Educational goal:					
To gain the basic knowledge in telecommunication electronics design. To get knowledge and ability to combine theory and simulation skills while designing telecommunication circuits. To become aware of the difference between the telecommunication electronics circuits realized as integrated circuit or as with discrete components.					
2. Educational outcomes (acquired knowledge):					
-to gain knowledge about the basic telecommunication electronics circuits performance parameters and problems -to acquire ability to recognize the basic transceiver topologies - to gain knowledge about simulation of the basic RF circuits (matching circuits, selective amplifiers,LNA, mixers, oscillators,...). - to gain knowledge about various technique that can be used to improve performance of some telecommunication circuits (LNA; narrow bandwidth amplifier, wide bandwidth amplifier, mixer, oscillator,...)					
3. Course content/structure:					
The history of radio communication. Electromagnetic sprectrum and allocation. Basic issues in RF circuits.Modulation/demodulation. RF transmitter and receiver (basics).Intereference and filtering. Nonlinearity issues.Noise issues.Sensitivity and dynamic range. Impedance transformation.Passive RLC circuits (Q, BW, ...). Maximum power transfer. Matching circuits (L-match, pi-match, t-match, tapped capacitor resonator, tapped inductor resonator, double-tapped resonator). Transceiver Architectures. Receiver topologies(Regenerative receiver, Super-heterodyne, Dual super-heterodyne, Direct-conversion, Low-IF ,Digital-IF,Impulse radio). Transmitter topologies (Direct conversion transmitter, Two-step transmitter, Direct modulation transmitter,Impulse radio transmitter). Passive devices and networks (Inductors, Transformers, Varactors,Signal Pads) Wiring (On-chip interconnects, Off-chip wiring, Ground connections). BW estimation, HF broadband and NB amplifiers. Noise parameters, noise sources in MOSFET. Design of narrowband LNA (techniques and procedure) . Design of broad-band LNA (techniques). Mixers (Image Aliasing, Feedthrough effects, Noise (SSB vs. DSB NF), Noise folding,Nonlinearity). Single vs. Double-Balanced Mixer Implementation. Gilbert Mixer (advantages, noise, linearity, improvements). Other mixer topologies (Square-Law Mixer, Passive Mixers). Oscillators (Colpitts, Hartley,...). Oscillator phase noise. System Integration Aspects (SoC, SiP,Substrate noise, Packages for RF, Pads for RF).					
4. Teaching methods:					
Lectures; Exercises; EDA tools laboratory exercises; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Project		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	B. Razavi	RF Microelectronics		Prentice-Hall	1998
2,	David M. Pozar	Microwave and RF Design of Wireless Systems		Wiley & Sons	2001
3,	T. H. Lee	The Design of CMOS Radio-Frequency Integrated Circuits		Cambridge University Press	1998

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Table 5.2 Course specification

Course:		Modelling and simulation of RF and microwave circuits			
Course id:	EM420A				
Number of ECTS:	6				
Teachers:		Crnojević-Bengin B. Vesna, Dautović B. Staniša, Novak O. Ladislav, Struharik J. Rastislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses		None			
1. Educational goal:					
Advanced knowledge from the field of RF and microwave electronics, with the special focus on the computer aided design (CAD) of microwave components and circuits.					
2. Educational outcomes (acquired knowledge):					
Advanced and practical engineering knowledge on computer aided design (CAD) of microwave components and circuits. Using commercially available CAD software packages for the design of 2D and 2.5D circuits (Microwave Office / Sonnet) and 3D circuits (HFSS / CST). Practical engineering knowledge on passive microwave circuits (power dividers, antennas, ferromagnetic components), active microwave circuits (amplifiers, oscillators) and other applications of microwaves.					
Acquired knowledge will be used in the engineering practice as well as in the further education for the MSc and the PhD degree.					
3. Course content/structure:					
Power dividers and couplers. Antenna theory. Practical realizations of antennas and antenna types. Microstrip patch antenna. Active microwave circuits. Noise in microwave systems. Components for wireless systems. Detectors. Mixers. Oscillators. Power amplifiers. Theory and design of ferimagnetic components. Ferrite theory. Isolators. Phase shifters. Circulators. Edge-mode devices. YIG filters. Absorbing materials. Radar systems. Phased array antennas. Stealth technology. Attenuators. Microwave heating. Pother applications of microwaves.					
Using commercially available CAD software packages for the design of 2D and 2.5D circuits (Microwave Office / Sonnet) and 3D circuits (HFSS / CST).					
4. Teaching methods:					
Lectures. Auditory excercizes. Computer excercizes.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	20.00	Written part of the exam - tasks and theory	Yes 40.00
Computer exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. M. Pozar	Microwave Engineering		John Willey & Sons	1998
2,	J.-S. Hong, M.J. Lancaster	Microstrip filters for RF/Microwave Applications		John Willey & Sons, Inc.	2001
3,	Vesna Crnojevic-Bengin	RF i mikrotalasna tehnika 2 - skripta			2011

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Table 5.2 Course specification

Course:		Nanoelectronics			
Course id:	EM457				
Number of ECTS:	5				
Teacher:		Stojanović M. Goran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	2	1	0		0
Precondition courses		None			
1. Educational goal:					
Students will be introduced in the field of novel achievements and knowledge in nanoelectronics and application of nanostructural materials					
2. Educational outcomes (acquired knowledge):					
<ul style="list-style-type: none">- understanding of changing materials properties with scaling dimensions from micro to nano- examination of properties of carbon nanotubes- characterization of nanodevices using different types of microscopy techniques and instruments- an ability to understand numerous application fields of nanoelectronics and further development of this are in the near future					
3. Course content/structure:					
Intriduction; Carbon nanotubes; Application of carbon nanotubes (CNTFET, displays from CNTs, memories, ets.); Nanostructures in drug delivery; Application of magnetic nanoparticles and metal nanoparticles in biomedicine; Nanomaterials for lithium-ion batteries; Nanocrystalline solar cells; Nanomembranes and ways of forming and testing their characteristics; Application of nanotechnology in consumer products; Nano-sensors; Forming and application of fluidic nanochannels; Nanotechnology and ethics.					
4. Teaching methods:					
Lecture; Auditory exercises; Laboratory exercises; Consultation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Final exam - part one	Yes 35.00
Final exam - part two				Yes	35.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Goran Stojanović	c		FTN Izdavaštvo	2012
2,	Waser, Rainer	Nanoelectronics and Information Technology		Weeinheim, WILEY-VCH Verlag GmbH and Co. KeaA	2005
3,	George W. Hanson	Fundamentals of Nanoelectronics		Pearson Educational International, Prentice Hall	2007

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Table 5.2 Course specification

Course:		Internet Networks			
Course id: E233					
Number of ECTS: 4					
Teachers:		Konjović D. Zora, Marković -. Milan, Okanović Đ. Dušan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
2		0	2	0	0
Precondition courses		None			
1. Educational goal:					
Students learn about the theoretical bases and technologies of TCP/IP networks.					
2. Educational outcomes (acquired knowledge):					
Understanding basic theory about TCP/IP networks. Gaining practical knowledge necessary for design, implementation and maintenance of local computer networks based on TCP/IP model.					
3. Course content/structure:					
Network standards and standardization bodies. Passive and active equipment for realization of computer network, structured cabling. TCP/IP networks: ISO reference model and TCP/IP, data transmission (basics of OSI 1 protocol) Ethernet and serial connections (basics of OSI 1 protocol), IPv4, ICMPv4, routing principles, dynamic routing protocols, UDP, TCP, DNS, IP new generation. Communication devices: hub, switch, router. Network services (SMTP). Evolution of campus networks (VLAN, VPN). Monitoring, control, protection of network: SNMP, package filtering, cryptography, firewalls, controlled access, naming services, etherification protocols, digital signature. Wireless communication and mobile computing: evolution, standard compatibility, specific characteristics, wireless LAN and satellite based networks, mobile Internet protocol.					
4. Teaching methods:					
Teaching methods include: Lectures, laboratory practice, homework assignments, and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at laboratory practice classes through assignments which students do independently or with the help of teaching assistants as well as through homework assignments (obligatory or optional). A student is expected to demonstrate the ability of independent task solving or understanding of the solution. The evaluation is in the form of oral conversation with the teaching assistant. The course lecturer and assistants have consultations with the students. During the consultations the students are given additional explanations of the material covered at the lecture and practice classes, and in the case of consultations relating to independent work on laboratory or homework tasks, the suggestions are given on h					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Theoretical part of the exam	Yes 30.00
Homework		Yes	5.00		
Laboratory exercise attendance		Yes	5.00		
Laboratory exercise defence		Yes	50.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	William Stallings	Data and Computer Communications		Prentice Hall, 2004, ISBN: 0-13-100681-9	2004
2,	Milan Kerac	Mrežno bazirani sistemi 1 - Priručnik za vežbe		FTN, 2004, (elektronsko izdanje)	2004

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Table 5.2 Course specification

Course:		Digital Audio Signal Processing			
Course id:	EK422				
Number of ECTS:	5				
Teachers:	Delić D. Vlado, Sečujski S. Milan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	0	
Precondition courses		None			
1. Educational goal:					
The course objective is to deepen the knowledge of students about audio signals, especially about speech and music. In order to work with audio signal digital processing professionally, electrical engineers should have good understanding of spoken and music signal characteristics, as well as the knowledge of their processing and transmission possibilities.					
2. Educational outcomes (acquired knowledge):					
In the lectures students gain fundamental knowledge about both speech and music signals. Based on that, they are able to work on audio processing and analysis, as well as compression, coding and transmission of audio signals in a competent way. They will learn to make processing of music signals and apply audio effects. They also get basic knowledge necessary for working on speech technologies and audio forensics. They will be able to assess acoustic environment and measure the intelligibility of speech and music quality professionally. They gain practical experience with audio equipment, music instruments and software for digital audio signal processing.					
3. Course content/structure:					
•Voice production, transmission, and perception. Modelling of speech production and perception. •Speech signal analysis in time and frequency domains. Digital analysis and coding of speech signal (PCM, LPC, CELP). •Coding and transmission of speech signal (G.711(64kbps), ADPCM(32), G.728(16), GSM(13), CELP(4), LPC(2.4)). •Speech quality evaluation and speech intelligibility measurements (objective measurements and subjective assessment of acoustical characteristics of voice). •Introduction to speech technologies: automatic speech recognition, speaker and emotion recognition, text-to-speech synthesis. •Introduction to audio forensics. Forensic speaker recognition. •Characteristics of music signals. Music instruments, placement of microphones for recording of orchestra. •Studio equipment and audio signal processing (multi-channel recording (5.1, 7.1, 10.2,...), audio-visual controls, mixing, level regulation, filters, regulation of dynamics and reverberation, echo, panorama, monitoring and sound editing, sound analysis and synthesis). •Acoustical quality of both professional rooms and systems for sound recording and reproduction (objective measurements and subjective assessments of sound area features, optimal conditions for sound recording and reproduction). •Audio systems for recording of voice and music program and audio effects (selection and placement of microphones, sound for film and video). •Formats for recording, transmission and storing of audio information in multimedia environment on a computer (MIDI, MPEG, HD and 3D sound). •Standards for coding/compression and transmission of audio signals (Dolby, AAC, MPEG). •Audio signal broadcasting (FM stereo, RDS) and digital audio transmission (GSM, VoIP, DAB - digital radio).					
4. Teaching methods:					
Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course (speech signals) is followed by auditory exercises in the Laboratory of acoustics and speech technologies at FTN. The second part of the course (music signals) is followed by exercises either in a sound studio at UNS or visits to either Studio Berar or Radio Novi Sad, where students will learn about practical audio engineering in music and speech studios, anechoic rooms and audio-theater complexes. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecommunications and Signal Processing - www.ktios.net .					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Presentation		Yes	10.00	Written part of the exam - tasks and theory	Yes 50.00
Term paper		Yes	20.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Slobodan Jovičić	"Govorna komunikacija - fiziologija, psihoakustika i percepcija"		Nauka, Beograd	1999
2,	B. Gold and N. Morgan	Speech and Audio Signal Proc. - Proc. and Perception of Speech and Music		JW&S	2000
3,	Vlado Delić i dr.	Skripta sa predavanja		www.ktios.net	2012

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Table 5.2 Course specification

Course:		Control and process electronics			
Course id:	EM430A				
Number of ECTS:	6				
Teachers:		Slankamenac P. Miloš, Živanov B. Miloš			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	3	0	0	
Precondition courses					
1. Educational goal:					
To train students to design and apply electronic systems and devices for industrial process control.					
2. Educational outcomes (acquired knowledge):					
The student who successfully completes this course will be able: - to design and apply electronic circuits for sensor signal processing in industrial processes. - to design and apply electronic circuits for excitation of executive organs applied in industrial process control. - to design and apply microprocessor systems for industrial process control. - to design and apply analog and digital control algorithms. - to design and apply industrial process control systems based on the programmable logic controllers (PLC).					
3. Course content/structure:					
Electronic circuits for sensor signal processing. Analog-digital and digital-analog adaptive systems. Electronic circuits for excitation of executive organs. System overview with or without feedback. Modelling of electronic control systems applying Simulink. Implementation of analog and digital control laws. Industrial communication protocols. Architecture of the programmable logic controllers (PLC). Programming and application of programmable logic controllers.					
4. Teaching methods:					
Theoretical basis are presented to students by the course professor during the lectures. In the lectures, students can organize short presentations about given topics. In the laboratory practice, teacher's assistant will organize practical lectures. Students are obliged to prepare for each laboratory practice and bring written report if required for the given practice. Remaining time in the laboratory practice is planned for the practical practice of lectured topics for the given laboratory practice, and can be used for student knowledge testing if needed.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 50.00
Laboratory exercise defence		Yes	40.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1.	Milić Stojić	Kontinualni sistemi automatskog upravljanja		Naučna knjiga, Beograd	1990
2.	Milić Stojić	Digitalni sistemi upravljanja			1994

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Table 5.2 Course specification

Course:		Mechatronics			
Course id:	EM436A				
Number of ECTS:	6				
Teachers:	Borovac A. Branislav, Nađ F. Laslo				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	1	0	0	
Precondition courses					
1. Educational goal:					
The course is designed for the students of electronics. The course objective is to train students to creatively design processes of mechatronic systems. Students learn to identify the problem, design, develop and select the best strategy and concept using fundamental principles, corresponding analysis and experiments, if needed. Students then create modules for the best concept and integrate them in the system.					
2. Educational outcomes (acquired knowledge):					
<ul style="list-style-type: none">- student ability to personally go through the designing process of mechatronic systems through designing a specific device.- student ability to participate in defining and solving problems related to mechatronic system design in cooperation with engineers from related professions- student ability to make a selection of critical components in mechatronic systems- student ability to make a selection of suitable controller type- Special efforts are made in order for students to understand that in complex mechatronic systems, each aspect is equally important and that all modules of the system (mechanical part, electronics, programming,...) should operate adequately and reliably in order to preserve the system functionality as a whole.					
3. Course content/structure:					
During the course students learn: basic mechanical constructions and processes of mechatronic device design, to critically analyze existing solutions of mechatronic devices, and to learn to use electromechanical analogies in the mechatronic device analysis and design. The basic principles of mechanical components are taught in the course, partially in the classroom and partially in the laboratory. Besides, basic electromechanical analogies are taught and applied in the analysis and synthesis of certain subassembly solutions in the mechatronic devices. Afterwards, existing solutions are critically analyzed with a special emphasis on weaknesses and improvement possibilities, selection of better mechanical solution, adequate sensor or actuator, better methods of control or all together.					
4. Teaching methods:					
Lectures; Auditory Practice; Laboratory Practices; Consultations. Students can choose two ways to pass the examination: - by making a prototype included in a complex project and – without making a prototype but with making a study for the proposed device solution in a simpler project. Students who make the device should, make the prototype and defend it (up to 50 points). They are free from first part of written exam (the second part is worth up to 30 points.) Students who don't want to make the prototype, have to do the study and defend it (up to 30 points). They have to pass both part of written exam (20+30 points). On the oral exam (up to 20 points) will be formed the final grade. Students who pass a colloquium during the semester (up to 20 points) are free from the first part of the written exam , too.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Final exam - part one	Yes 20.00
Project task		No	50.00	Final exam - part two	Yes 30.00
Term paper		No	20.00	Coloquium exam	No 20.00
Oral part of the exam				Yes	20.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	V. Miltenović	Mašinski elementi-oblici, proračun, primena		Mašinski fakultet u Nišu, ISBN 86-80587-12-5	2001
2,	M. Živanov	Elektronika, komponente i pojačavačka kola		Novi Sad (odgovarajuća poglavlja)	2000
3,	D. Shetty, R. Kolk	Mechatronics System Design		PWS Publishing Company, ISBN 0-534-95285-2	1997
4,	L. Kamm	Understanding Electro-Mechanical Engineering – An introduction to mechatronics		IEEE press, ISBN 0-7803-1031-4	1995

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Table 5.2 Course specification

Course:		Electronic multimedia systems						
Course id: EM455								
Number of ECTS: 5								
Teacher:		Slankamenac P. Miloš						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
2		0		3		0	0	
Precondition courses								
1. Educational goal:								
Acquiring knowledge in the field of electronic and optoelectronic components and systems used in modern multimedia technologies. Acquiring knowledge in the field of practical skills for programming electronic and optoelectronic systems for the classic and touch-screen displays to show text, graphics and animation, with or without sound effects. The aim is to introduce students to the existing hardware and the development of multimedia systems learn to program additional it in order to obtain the corresponding multimedia content.								
2. Educational outcomes (acquired knowledge):								
- The ability of practical use of digital electronic circuits and displays in multimedia systems.								
- The ability of programming relatively simple systems with a classic and touch-screen displays to show text, graphics and animation, with or without sound effects.								
3. Course content/structure:								
Electronic and optoelectronic components and systems in modern multimedia technologies. The classic and touch-screen displays for text processing. The classic and touch-screen displays for showing images and animations with and without sound effects. Development multimedia systems and their capabilities. Software tools and programming method development of multimedia systems.								
4. Teaching methods:								
Lectures, numerical (N) and laboratory (L) practice, consultations.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Laboratory exercise attendance			Yes	5.00	Written part of the exam - tasks and theory		Yes	30.00
Laboratory exercise defence			Yes	60.00				
Lecture attendance			Yes	5.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Shi Yun Q.		Image and video compression for multimedia engineering: fundamentals, algorithms, and standards			2nd edition, CRC Press		2008

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Table 5.2 Course specification

Course:		Dedicated Computer Structure Design for Signal Processing				
Course id:	RT52B					
Number of ECTS:	5					
Teacher:		Pap I. Ištvan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		1	2		0	0
Precondition courses		None				
1. Educational goal:						
Students will learn about the basics of designing dedicated computer structure using VHDL.						
2. Educational outcomes (acquired knowledge):						
Students know the basic standards and technologies required for designing dedicated computer structures and are able to use VHDL language of multiprocessor computer structures.						
3. Course content/structure:						
Design of multiprocessor computer structures using VHDL. Design in the field of intercomputer communications and networks. Design in the field of ISDN, ATM, SDH. Design based on digital signal processors. Examples and practical work in the laboratory.						
4. Teaching methods:						
Lectures, Tutorials, Computer practice, Consultations						
During the term students attend lectures and computer practice classes. During the term students work on their examination paper at the computer practice classes.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Homework		Yes	30.00	Coloquium exam		No 40.00
				Theoretical part of the exam		Yes 30.00
				Practical part of the exam - tasks		Yes 40.00
Literature						
Ord.	Author	Title			Publisher Year	
1,	B. Atlagić	Projektovanje namenskih računarskih struktura, skripta			2007	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	

Table 5.2 Course specification

Course:		Computer Network Fundamentals 2						
Course id: E23B1								
Number of ECTS: 4								
Teachers:		Samardžija M. Dragan, Bašičević V. Ilija						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:		
2		0	2		0	0		
Precondition courses		None						
1. Educational goal:								
Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.								
2. Educational outcomes (acquired knowledge):								
Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.								
3. Course content/structure:								
Standards in intercomputer communications. Designing a topology of computer networks. Flow control in computer networks. Network direction and identification. Intercomputer communication devices. Network operating systems (administration, supervision and operational management) Internet (architecture and services).								
4. Teaching methods:								
Lectures: Tutorials. Computer practice. Consultations.								
Students work during the semester at computer practice classes on developing their examination paper.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Project task			Yes	30.00	Coloquium exam		No	40.00
					Theoretical part of the exam		Yes	30.00
					Practical part of the exam - tasks		Yes	40.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	V. Kovačević, M. Popović i Ž. Jurca		Osnovi računarskih mreža, skripta			FTN		2007

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Table 5.2 Course specification

Course:		Monitoring and Noise Protection			
Course id:	EK452				
Number of ECTS:	5				
Teacher:	Delić D. Vlado				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	1	0	0	
Precondition courses		None			
1. Educational goal:					
Noise is becoming an increasing problem in the living and working environment, and more attention is paid to monitoring and protecting against noise. To describe the characteristics of noise and how noise affects people. To explain how to measure noise in both working and living environments. To present measurement devices and tools for noise analysis. To study the standards and regulations on permitted noise level and introduce techniques of measurement, monitoring, and noise protection in both working and living environments.					
2. Educational outcomes (acquired knowledge):					
Students will acquire basic knowledge about noise and its characteristics and impact on people. They will learn about the standards and regulations on permissible noise levels in both working and living environments. At exercises they gain practical experience with measurement devices and techniques of measurement, monitoring and noise protection. Students will learn to measure noise, room acoustic parameters, and insulation power of barriers. They will be able to identify and qualify potential problems with noise and suggest solutions for the control and noise protection both indoors and outdoors.					
3. Course content/structure:					
• Audible range and limit of the risk of damage to hearing (ear sensitivity, phone and dB(A)). • Basic characteristics of the noise and its impact on humans (level, spectrum and temporal character). • The noise from multiple sources (equivalent and authoritative level, overall, specific and background noise). • The regulations on permissible noise level in the working and living environments, regulations and standards (dB(A) and the normative line of acceptable noise (N-curves) in some areas, the impact of noise on certain activities, permitted noise dose during working hours). • Measuring chain and equipment for measurement and analysis of noise (sound level meters, filters, dosimeters, software tools). • Environmental noise (traffic, construction and communal noise; sources and routes of noise transmission; methods of measuring and noise protection). • Noise in the workplace (acoustic power, methods of measuring noise in the working environment, control measures and the protection of workers). • Monitoring of noise (noise maps in the environment, planning - architectural acoustics). • Noise control (prevention at source (technical and legal means), control of the transmission lines, protection of the receipt). • Building acoustics (principles of building vs. principles of acoustics; insulation material power, roads of penetrating noise, structural noise). • Sound insulation (materials and structures, measurement of sound insulation of wall, floor and ceiling, measuring the sound insulation of windows and doors, evaluation of sound insulation in accordance with the regulations and standards, methods to improve the sound insulation). • Methods of prevention and protection from noise (acoustic barriers, sound absorbers, acoustic treatment of rooms and noise insulation, personal protection, active noise canceling).					
4. Teaching methods:					
Lectures are conducted using Power Point presentations that are available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course is followed by auditory exercises. The second part of the course is followed by exercises in the Laboratory of Acoustics and Speech Technologies at FTN. Visits to several companies and institutions in Novi Sad are arranged, where students will learn about the measurement devices and software for noise analysis, as well as the techniques of measurement, monitoring and noise protection. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecommunications and Signal Processing - www.ktios.net .					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Presentation		Yes	10.00	Written part of the exam - tasks and theory	Yes 50.00
Term paper		Yes	20.00	Coloquium exam	No 20.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Momir Prašćević, Dragan Cvetković	“Buka u životnoj sredini”		Fakultet zaštite na radu, Niš	2005
2,	Petar Pravica, Dragan Drinčić	“Elektroakustika”		VISER Beograd	2006
3,	Vlado Delić	Skripta sa predavanja		www.ktios.net	2012



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme Power, Electronic and Telecommunication Engineering is coordinated with contemporary trends and situation in profession in the field of electrical and computer engineering and is compatible with similar programmes in international higher education institutions. Thus the good harmony is achieved between the best educational practices in this field in our country and positive examples of study programmes of prominent European and world wide faculties in the field of electrical and computer engineering.

This study programme is designed to be complete and comprehensive and provides students with the latest scientific and professional knowledge in this field.

The study programme Power, Electronic and Telecommunication Engineering is similar and comparable and coordinated with the accredited study programmes of the following institutions:

1. National Technical University of Athens, School of Electrical and Computer Engineering, Greece
(http://http://www.ece.ntua.gr/index.php?option=com_courses)
2. Faculty of Electrical Engineering and Information Technology, University of Hannover, Germany
(<http://www.et-inf.uni-hannover.de/etech-it.html?&L=1>)
3. Faculty of Electrical Engineering, Graz University of Technology, Austria
(http://portal.tugraz.at/portal/page/portal/TU_Graz/Studium_Lehre/Studien/ET_Bachelor)



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 07. Student Enrollment

Faculty of Technical Sciences, in accordance with social demands and its material, human and technical-technological resources, enrolls certain number budget- and self-financed students (usually 150 budget-financed students and up to 50 self-financed students) to the undergraduate academic studies in the study programme Power, Electronic and Telecommunication Engineering. This number is redefined each year by special decision of the founder. The selection of students and enrollment of the applied candidates is based on the previous success in education and achieved results at the entrance exam, as defined in the Regulations of student enrolment on study programmes.

Students from other corresponding study programmes, as well as persons with completed studies, can also enroll to this study programme. Special board (which consists of the chiefs of the departments involved in the realization of the study programme) evaluates all activities of the candidates for enrollment, and determines the year of study in which candidate is to be enrolled based on the recognized number of credits.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 08. Student Evaluation and Progress

The final grade of the student in each course within this study programme is determined by continual monitoring of student work, achieved results and involvement of students during the school year, and by final examination results.

The students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course at the study programme has a set number of ECTS credits which students obtain on successfully passing the examination. The number of ECTS credits is determined based on the student work load in mastering certain course and by application of unique methodology of the Faculty of Technical Sciences for all study programmes. Students' success in mastering a certain course is constantly monitored during classes and is presented in points. Maximum number of points obtained in a course is 100.

Students obtain points from a course through their work during classes, fulfillment of their prerequisites and taking the examination. The maximum number of points which students can obtain by fulfillment of exam prerequisites during the classes ranges from 30 to 70, depending on the course.

Student's final achievement at a course is presented using grades from 5 (fail) to 10 (excellent). Student's grade is based on the overall number of points obtained on fulfilling prerequisites and taking the examination, and in accordance with the quality of acquired knowledge and skills.

The prerequisites are: lecture attendance, auditory, laboratory and/or computer practice, term papers, homework assignments, smaller professional projects, tests, etc. Additional conditions for taking the exam are separately defined for each course.

Advancement of students during education is defined by Regulations of studying at undergraduate academic studies.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 09. Teaching Staff

For the realization of the study programme Power, Electronic and Telecommunication Engineering, there is the highly qualified faculty staff with necessary scientific, artistic and professional qualifications and competencies, and also with experience in educational work.



Total number of lecturers and associates employed at the study programme is adequate to accomplish the total number of classes. About 85% of the total lecturers and associates are permanently employed full-time.

The quality and number of staff fully complies with the requirements of this study programme. Total number of staff on the study programme is sufficient to cover total number of practice in the programme, thus accomplishing around 300 hours of active lecturing annually.

The lecturing group size is up to 180 students, the practice group is up to 60 students and laboratory practice group is up to 20 students.

All information on lecturers and associates (CVs, appointed titles, references) are available to the public on the website of the Department of Power, Electronic and Telecommunication Engineering (<http://deet.ftn.uns.ac.rs>), as well as within the tables for scientific, artistic and professional qualifications on the website of the Provincial Secretariat for Science and Technological Development (http://apv-nauka.ns.ac.yu/vece/indexd.jsp?zd_dokumentId=80&Oblast=13).



Special attention within the study programme is given to the professional development, promotion and development of teaching staff through participation in national and international symposia and seminars in order to enhance their knowledge and apply best practices in class.

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Science, arts and professional qualifications

Name and last name:		Adžić Z. Nevenka	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.09.1978	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1990	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1986	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GG10	Mathematical Methods 3	(G00) Civil Engineering, Undergraduate Academic Studies
4.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	S017	Mathematics 2	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	S0213	Mathematical Statistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	IM1012	Probability and Statistics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies



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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
12.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
13.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies		
14.	OM517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies		
15.	OML517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies		
16.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies		
17.	D0M24	Numerical Solutions of Differential Equations	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
18.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
19.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	N. Adzic, On the spectral solution for boundary value problem, ZAMM 70,(1990) 6, T647-T649.				
2.	V. Vrcelj, N. Adzic, Z. Uzelac: A numerical asymptotic solution for singular perturbation problems, International journal of computer mathematics, Vol.39, (1991) 229-238.				
3.	N. Adzic: Modified hermite polynomials in the spectral approximation for boundary layer problems, Bulletin of the Australian mathematical society, Vol.45, (1992) 267-276.<leng>				
4.	N. Adzic: Spectral approximation for single turing point problem, ZAMM72(1992)6, T621-T624.				
5.	N. Adzic: Nonclassical orthogonal polynomials and singularly perturbed problems, ZAMM73(1993) 7/8, T868-T871.				
6.	N. Adzic: Spectral approximation and asymptotic behaviour of boundary layer problems, ZAMM74(1994)6, T-553-T555.				
7.	N. Adzic, Z. Uzelac: A combination of spline and spectral approximation for a class of singularly perturbed problems, ZAMM78 (1998), S853-S854				
8.	Z. Uzelac, N. Adzic: The Approximate Solution for Problems with Nonlocal Boundary Conditions, ZAMM79 (1999), S881-S882				
9.	N. Adzic, Z. Uzelac: On spectral approximation for some two-dimensional singularly perturbed problems, ZAMM79 (1999), S851-S852				
10.	N. Adzic: On the spectral approximation for singularly perturbed problems,ZAMM 71(1991)6,T773-T776.				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		5		
Total of SCI(SSCI) list papers :		10		
Current projects :		Domestic :	2	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Atlagić S. Branislav	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		07.01.1985	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carier	Year	Institution	Field
Academic title election:	2011		Computer Engineering and Computer Communication
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1996	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1984	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E230	Logic Design of Computer Systems 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	RT49	Real Time Software 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	RT49A	Real Time Software 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI009	Smart Grid Communication Protocols	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI019	Critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	RT58	Dedicated Computer Structure Design 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
9.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies
10.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Udžbenik "Logičko projektovanje računarskih sistema II", V.Kovačević, B.Atlagić, FTN 2007/2009.		
2.	M.Popovic, B.Atlagic, V.Kovacevic, "Case study: a maintenance practice used with real-time telecommunications software", Journal of Software Maintenance and Evolution, John Wiley and Sons Ltd, March-April issue, 2001.		
3.	D.Kukolj, M.Berko-Pušić, B.Atlagić, "Experimental Design of Supervisory Control Functions Based on Multilayer Perceptron", Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 15(5) 2001, pp. 425-431.		

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<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)				
4.	D.Kukolj, B.Atlagic, M.Petrov, "Data clustering using a re-organizing neural network", Taylor & Francis Inc., Cybernetics and Systems, An Int. Journal, Vol. 37, No. 7, 2006, pp. 779-790.			
5.	Generalizovani akviziciono upravljački sistem - GAUS			
6.	B.Atlagic, M.Sagi, D.Milinkov, S.Culaja, B.Bogovac, "A way towards efficiency of SCADA infrastructure", ECBS 2012, Novi Sad 2012.			
7.	B.Atlagic, D.Milinkov, M.Sagi, B.Bogovac, "High-Performance Networked SCADA Architecture For Safety-Critical Systems", ECBS-EERC 2011, Bratislava.			
8.	B.Atlagic, V.Mihić, T.Maruna, "A Methodology for Specification and Development of Control Code in Industrial DCS Application", XIV International Conference on Systems Science, Wroclav 2001.			
9.	B.Atlagic, M.Sagi, D.Milinkov, B.Bogovac, S.Culaja, "Model-based approach to the Development of SCADA applications", The 9th IEEE Workshop on Model-Based Development for Computer-Based Systems, Novi Sad 2012.			
10.	B.Atlagic, D.Kukolj, V.Kovacevic, M.Popovic, "Application development environment of an integrated SCADA system", EUROCON 2003, Ljubljana 2003.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Bajić D. Dragana	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 22.09.2000	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1995	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1984	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK313	Computer Communication	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	BMI105	Statistical basics, processing and modelling of biomedical signals	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI123	Advanced biomedical signal analysis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK202	Communication networks - introduction	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK460	Biomedical signal processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI21	Communication Protocols	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE411S	Signal processing in medical research	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK530	Nonlinear Biomedical Signal Processing	(OM1) Mathematics in Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK531	Multuser Detection	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	SI029	Biomedical signal processing	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	BMIM2B	Biomedical statistics	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM2C	Multivariable analysis and complexity of physiological processes	(BM0) Biomedical Engineering, Master Academic Studies
15.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
16.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DE411	Signal Processing in Medical Research	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Dragana Bajić: Search, Sequences, Synchronization and States: a different approach, Novi Sad, FTN, recenzenti: dr Werner Teich, University of Ulm, dr Tricia Willinks, CRC Ottawa Canada, 2006. 242str., ISBN 86-7892-024-6.		
2.	Reichman A., Tacada J., Bajić D., et al: Body Communications, in: Roberto Verdone; Alberto Zanella, (Eds.): Pervasive Mobile and Ambient Wireless Communications, Springer, 2012, Hardcover, pp 609-660, ISBN 978-1-4471-2314-9		
3.	Bajić D.: Sequence synchronization technique, in: L. Correia (Ed) Towards Mobile Broadband Multimedia Networks,, Academic Press Elsevier Ltd, Oxford U.K, 2006,ppr. 77-79, ISBN 13: 978-0-12-369422-		
4.	Bajić D., Drajić D.: Statistical Analysis of Digital Signals and Systems, in: Bane Vasić, Erozan Kurtas (ED): Coding and Signal Processing for Magnetic Recording Systems, , CRC Press LLC, New York, 2005,pp. 7-7, ISBN 0-8493-1524-7		
5.	Stefanović Č., Bajić D.: On the Search for a Sequence from a Predefined Set of Sequences in Random and Framed Data Streams, IEEE Transactions on Communications, 2012, Vol. 60, No 1, pp. 189-197, ISSN 0090-6778		
6.	Lončar-Turukalo T., Japundžić-Žigon N., Bajić D.: Temporal Sequence Parameters in Isodistributional Surrogate Data: Model and Exact Expressions, IEEE Transactions on Biomedical Engineering, 2011, Vol. 58, No 1, pp. 16-24, ISSN 0018-9294		
7.	D. Drajić, D. Bajić: "Communication System Performances – Achieving the Ultimate Information-Theoretic Limits?", IEEE Communications Magazine, Vol. 40, No. 6, May 2002. pp 124-129 ISSN 0163-6804.		
8.	D. Bajić: "New simple method for solving the first passage time problem", Electronics Letters, 1991, Vol. 27. No. 16, pp 1419-1421. ISSN 0013-5194.		
9.	D. Bajić, D. Drajić: "Time-varying Viterbi decoding for correlated data", Electronics Letters, 1993, Vol. 29. No. 4, pp 335-337. ISSN 0013-5194.		
10.	D. Bajić, D. Drajić: "Information theory approach to frame synchronisation problem", Electronics Letters, 1994, Vol. 30. No. 20, pp 1667-1668. ISSN 0013-5194.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		156	
Total of SCI(SSCI) list papers :		14	
Current projects :		Domestic :	1
		International :	3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>	
	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	

Science, arts and professional qualifications



Name and last name:		Bajović M. Vera	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		16.02.1977	
Scientific or art field:		Theoretical Electrotechnics	
Academic carier	Year	Institution	Field
Academic title election:	2011		Theoretical Electrotechnics
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1974	Faculty of Technical Sciences - Priština	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EOS01	Fundamental electrical engineering	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	ETI04	Fundamentals of Electrical Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Bajovoć Vera: "Ekstrakcija obeležja za automatsku izgradnju stabala odlučivanja u tehničkoj dijagnostici sa nedovoljnom apriornom informacijom", Fakultet tehničkih nauka u Novom Sadu, 1994.		
2.	Neda Pekarić-Nadž, Vera Bajović: "Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike", Građevinska knjiga, Beograd, 1987.		
3.	Bojković Gordana, Bajović Vera: The impact of process measurement on industrial diagnostics, Facta Universitatis, Electronics and Energetics, vol. 13, No.2, pp. 143-155, August 2000.		
4.	Kasaš-Lažetić K., Prša M., Bajović V., Đurić N.: Verification of the Earth Return Impedance , 5. PSU-UNS International Conference: Energy and the Environment, Phuket, 2-3 Maj, 2011		
5.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1		
6.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Information Network for EMF Monitoring in Power System, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978-86-7892-355-5		
7.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04		
8.	Kasaš-Lažetić K., Prša M., Bajović V., Vukobratović B.: Determination of ACSR's Electrical Characteristics, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, pp. 1-4, ISBN 978-86-6125-042-2		
9.	Prša M., Kasaš-Lažetić K., Bajović V.: Determination of Earth Impedance, PSU-UNS International Conference on Engineering and Environment – ICEE - 2007, Phuket, Thailand: Faculty of engineering, Prince Songkla University, 10. i 11. Maj, 2007, pp. 240-726 -240-729.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
10.	Bajović Vera, Bojković Gordana: Inductive Learning Based Framework For Diagnostic System Building, 3rd International Symposium Interdisciplinary Regional Research, Novi Sad, FR Yugoslavia, September, 1998, pp. 21-23.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Bašičević V. Ilija	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E23B	Fundamentals of Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23B1	Computer Network Fundamentals 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	RT41	Intercomputer Communications and Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	DRT05	Selected Chapters of Computer Communications	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	I. Basicovic, M. Popovic, "Use of SIP in the Development of Telecom Services - A Case Study", "The Journal of the Institute of Telecommunications Professionals", 2008, Vol. 2, Part 3, ISSN 1447-4739.		
2.	I.Basicovic, M. Popovic, V. Kovacevic, "Use Of Publisher-Subscriber Design Pattern in Infrastructure of Distributed IDS Systems", ICNS 2007, Athens, Greece, June 19-23, 2007		
3.	I.Basicovic, M. Popovic, D. Kukulj, "Comparison of SIP and H.323 Protocols", ICDT 2008, Bucharest, Romania, June 29- July 5, 2008.		
4.	M. Popovic, I.Basicovic, V.Vrtunski, "A Task Tree Executor: New Runtime for Parallelized Legacy Software", ECBS 2009, San Francisco, USA, April 14-16, 2009.		
5.	Bašičević I., Popović M.: Session Initiation Protocol, Encyclopedia of Internet technologies and applications, Editors Mario Freire and Manuela Pereira, IGI Global, Hershey, Pennsylvania 17033, USA, 2008, ISBN 978-1-59140-993-9		
6.	Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849		
7.	Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248		
8.	Bašičević I., Kukulj D., Popović M.: On the Application of Fuzzy-based Flow Control Approach to High Altitude Platform Communications, DOI 10.1007/s10489-009-0190-y, Applied Intelligence, 2010, ISSN 1573-7497		
9.	Popović M., Bašičević I.: Formal verification of embedded software based on software compliance properties and explicit use of time, International Journal of Computers, 2011, Vol. 5, No 3, pp. 423-430, ISSN 1998-4308		
10.	Bašičević I., Popović M.: Operational profiles for Statistical Testing of Distribution Management System, INFOCOMP Journal of Computer Science, 2011, Vol. 10, No 2, pp. 8-16, ISSN 1807-4545		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		10	
Total of SCI(SSCI) list papers :		4	
Current projects :	Domestic :	1	International : 1

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Bekut D. Duško	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2004	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1990	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1986	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE416	Relay Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI001	Software Tools in Power Engineering	(E00) Power Software Engineering, Undergraduate Academic Studies
4.	ESI010	Basics of control in power systems	(E00) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ESI016	Smart Grid Programming	(E00) Power Software Engineering, Undergraduate Academic Studies
6.	DE206S	EPS Failure	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	EE508	Microprocessor Protection	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EE0514	Computer Application in Power Systems 2	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	DE206	PES Failures	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Strezoski V., Bekut D.: A Canonical Model for the Study of Faults in Power Systems Naziv časopisa: IEEE Trans. on Power Systems , IEEE Trans. on Power Systems, 1991, Vol. 6, No 4, pp. 1493-1499		
2.	Strezoski, V.C. Švenda, G.S. Bekut, D.D.: "Extension of the canonical model to grounding parts of power systems under fault conditions", INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, (2003) vol.25 br.7 str. 567-575		
3.	Bekut, DD Švenda, GS Strezoski, VC: "Dead zone phenomenon in distance relaying of overhead transmission lines", ELECTRIC POWER SYSTEMS RESEARCH, (2000) vol.56 br.1 str. 1-8		
4.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836		
5.	Nahman J., Bekut D.: Probabilistic interrupting current rating of transmission line circuit breakers Naziv časopisa: Electrical Power System Research , Electrical Power System Research, 1994, No 28, pp. 165-170		
6.	Đukanović M., Bekut D., Šobajić D., pao Y.: Neural network based calculation of short-circuit currents in three-phase systems Naziv časopisa: Electrical Power System Research , Electrical Power System Research, 1992, No 24, pp. 49-53		
7.	V.Strezoski, G.Svenda, D.Bekut: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions, Electrical Power & Energy Systems, ELSEVIER, 2003,+ No.25, pp. 567-575, ISSN 0142-0615.,		
8.	V.Strezoski, D.S.Popovic, D.Bekut, G.Svenda: DMS – Basis For Increasing Of The Penetration Of Green Distributed Generation In Distribution Networks, Thermal Science, Society of Thermal Engineers of Serbia, 2012, Vol. 1, No.16, pp. 189 – 203, ISSN: 0354-9836,		
9.	Popović D., Boškov E., Bekut D., Stefani I.: Impact of distributed generators in Hybrid MV and LV distribution networks, 4. European PV-Hybrid and Mini-Grid Conference, Glyfada, 29-30 Maj, 2008, pp. 49-54, ISBN 978-3-934681-72-9		
10.	Brbaklić B., Bizumić L., Bekut D.: Alat za automatizovano testiranje DMS softvera Naziv skupa: INFOTEH-JAHORINA , 7. Infoteh, Jahorina, 26-28 Mart, 2008, pp. 685-689, ISBN 99938-624-2-8		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		17	
Total of SCI(SSCI) list papers :		6	

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES</p> <p>Power, Electronic and Telecommunication Engineering</p>				
Current projects :	Domestic :	6	International :	14	



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Bogdanović Ž. Vesna	
Academic title:		Senior Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.12.1999	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
Magister thesis	2007	Faculty of Philosophy - Novi Sad	English
Bachelor's thesis	1999	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

		UNIVERSITY OF NOVI SAD		
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies	
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies	
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies	

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies		
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Vesna Marković, English in Civil Engineering, FTN Izdavaštvo, Novi Sad, 2004.				
2.	Vesna Bogdanović, Ivana Mirović, Engleski jezik za grafičko inženjerstvo i dizajn 1, FTN Izdavaštvo, Novi Sad, 2007.				
3.	Ivana Mirović, Vesna Bogdanović, Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN Izdavaštvo, Novi Sad, 2008				
4.	Vesna Marković, English in Civil Engineering, drugo izdanje, FTN Izdavaštvo, Novi Sad, 2008.				
5.	University of Novi Sad, Faculty of Technical Sciences, prevele: Marina Katić, Vesna Marković, Ivana Mirović, Fakultet tehničkih nauka, Novi Sad, 2004.				
6.	Mr Vesna Bogdanović, Pačvork romani Alis Voker i Toni Morison, Beograd: Zadužbina Andrejević, 2009, ISBN 978-86-7244-743-9				
7.	Bogdanović Vesna, Mirović Ivana, Ličen Branislava, Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 445-454				
8.	Mirović Ivana, Bogdanović Vesna, Ličen Branislava, Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 170-176				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
Representative references (minimum 5, not more than 10)				
9.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 329-332			
10.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 705-712			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		0		
Total of SCI(SSCI) list papers :		0		
Current projects :		Domestic :	0	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Bojković J. Gordana	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1975	
Scientific or art field:		Electrical Measurements	
Academic carier	Year	Institution	Field
Academic title election:	2010		Electrical Measurements
Magister thesis	2000	School of Electrical Engineering - Beograd	Electrical Measurements
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1971	Faculty of Electronic Engineering - Niš	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE420A	Measurement systems in power sector	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E1410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	EIJNZZ	Ionizing and Non-Ionizing Radiation and Protection	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIMMB M	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
12.	SI019	Quality in Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	SI048	Measurement Systems in the Field of Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
Representative references (minimum 5, not more than 10)			
1.	G.Bojković, V.Bajović, Lj.Živanov: "A Microprocessor based control of multichannel measuring system for temperature regulation", Proc.of the XXIX JUREMA 1984, Zagreb,pp.63-68, 1984.		
2.	M.Nimrihter, R.Čirić, G.Bojković, Z.Radojević, M.Kostić, "Real and pseudo-measurements in distribution networks", Proc. 11th International Symposium on Power Electronics - Ee 2001, Noi Sad, Yugoslavia, Oktober 31- November 2, 2001.		
3.	D.Kukolj, V.Bajović, M.Berko, G.Bojković: "Development and analysis of the diagnostic methodology based on machine learning", Technical report, University of Novi Sad, Yugoslavia. Citat: C4.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	D. Kukulj, V. Bajović, V. Kovačević, G. Bojković, "Fault Diagnosis by Combined Machine Learning Techniques", Second World Automatic Congress, WAC '96, First International Symposium on Intelligent Automation and Control, Montpellier, France, May 1996.		
5.	G. Bojković, M. Nimrihter, V. Bajović, "MEASUREMENT-ACQUISITION SYSTEMS AND CONTROL", Proc. 11th International Symposium on Power Electronics - Ee 2001, Noi Sad, Yugoslavia, Oktober 31- November 2, 2001.		
6.	V. Bajović, I. Konvalinka, G. Bojković, "Leak Detection On Outlet Pipes of Gas Transmission System Using Artificial Intelligence Methods," (in Serbo-Croatian with abstract in English) Proc. of the XXXVI Yug. Conf. ETAN, Kopaonik, YU, 1992.		
7.	I. Konvalinka, V. Kovačević, V. Bajović, G. Bojković, "Decision Trees Development for Leak Detection on Gas Transmission System Using Stationary Model and Machine Learning from Examples," Proc. of the First International Conference on Intelligent Systems Engineering, Edinburgh, UK, Aug. 19-21, 1992, pp. 330-335.		
8.	G. Bojković, V. Bajović, "THE IMPACT OF PROCESS MEASUREMENT ON INDUSTRIAL DIAGNOSTICS", Facta Universitates, Vol. 13, No. 2, August 2000, 143--155.		
9.	V. Bajović, G. Bojković, V. Kovačević, " Knowledge based system for faulty components detection in production testing of electronic device", International Symposium on Electronics and the Environment, San Francisco, CA, USA, pp. 257-260, 1997.		
10.	M. Nimrihter, G. Bojković, V. Bajović, Z. Radojević, "State Estimation in Radial Distribution Networks", International Conference on Operations Research, 2 - 5 September, Klagenfurt, Austria.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Borovac A. Branislav	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1975	
Scientific or art field:		Mechatronics, Robotics and Automation and Integral Systems	
Academic carieer	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1982	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
2.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1404	Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	BM116A	Basics of medical robotics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	II1035	Industrial robotics	(I10) Industrial Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	H1503	Non Industrial Robotics and Automation in Buildings	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
10.	HDOK1 S	Selected topics in industrial robotics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	HDOK2 S	Selected topics in non-industrial robotics	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	AD0007	Interactive systems in architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
15.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
16.	H829	Advanced robotics	(I10) Industrial Engineering, Master Academic Studies (M40) Technical Mechanics and Technical Design, Master Academic Studies
17.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
18.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
19.	HDOK-1	Selected Chapters in Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
20.	HDOK-2	Selected Chapters in Non-Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
21.	HDOKL1	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies		
22.	HDOKL2	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies		
23.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies		
24.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	M. Vukobratović, V. Potkonjak, K. Babković, B. Borovac, Simulation model of general human and humanoid motion, Multibody System Dynamics, Volume 17, Number 1, (February, 2007), pp. 71-96 (ISSN 1384-5640 (Print) 1573-272X (Online))				
2.	Vukobratović M., Borovac B., Potkonjak V., Towards a Unified Understanding of Basic Notions and Terms in Humanoid Robotics, Robotica (2007) Vol. 25, pp. 87-101				
3.	Vukobratović M., Borovac B., Potkonjak V., ZMP: A Review of Some Basic Misunderstandings, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 153-176				
4.	V. Potkonjak, M. Vukobratović, K. Babković, B. Borovac, General Model of Dynamics of Human and Humanoid Motion: Feasibility, Potentials and Verification, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 21-48				
5.	Vukobratović M., Borovac B., Babković K., "Contribution to the Study of Anthropomorphism of Humanoid Robots", Int. Jour. of Humanoid Robotics, Vol. 2, No. 3 (2005), pp. 361-387				
6.	Vukobratović M., Borovac B., Note on the Article "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 2, No.2, June 2005, pp. 225-227				
7.	Vukobratović M., Borovac B., "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 1, No.1, March 2004, pp. 157-173				
8.	M. Vukobratović, D. Andrić, B. Borovac, "How to Achieve Various Gait Patterns from Single Nominal ", International Journal of Advanced Robotic Systems, Vol. 1., No. 2, Page 99-108, 2004				
9.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11, (2001), pp.869-897				
10.	M. Vukobratović, D. Andrić, B. Borovac, "Humanoid Robot Motion in Unstructured Environment - Generation of Various Gait Patterns from a Single Nominal ", Cutting Edge Robotics, Edited by V. Kordic, A. Lazanica, M. Merdan, Published by pIV pro literatur Ver-lag Robert Mayer-Scholz, © 2005 Advanced Robotic Systems International, Page 577-598, 2005				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			1998		
Total of SCI(SSCI) list papers :			35		
Current projects :			Domestic :	2	International : 1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Bošković M. Dragan	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Information-Communication Systems	
Academic carieer	Year	Institution	Field
Academic title election:	2009		Information-Communication Systems
PhD thesis	1991	University of Bath - Bristol	Electrical and Computer Engineering
Magister thesis	1988	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1983	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM404A	Computer Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	IM1512	Object-oriented Infomation Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
3.	IM1515	Mobile information technologies	(I20) Engineering Management, Undergraduate Academic Studies
4.	IM1520	Service-Oriented Architectures	(I20) Engineering Management, Undergraduate Academic Studies
5.	IIDS8	Selected chapters from Information, management and communication systems	(G10) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies
6.	IM2507	Automation of production systems management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
7.	IM2517	e Government systems	(I20) Engineering Management, Master Academic Studies
8.	IMDS73	Selected chapters from Information management	(I22) Engineering Management, Specialised Academic Studies
9.	IMDR73	Selected chapters from Information management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
10.	IMDR81	Selected chapters from Information, management and communication systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Pennock, S.R. Boskovic, D.M. Rozzi, T., Analysis of coupled inset dielectric guides under LSE and LSM polarization', IEEE Transactions on Microwave Theory and Techniques, May 1992 Volume: 40, Issue: 5 On page(s): 916-924 Digital Object Identifier: 10.1109/22.137398		
2.	Bourse, D.; El-Khazen, K.; Lee, A.; Grandblaise, D.; Boscovic, D. "Business perspectives of end-to-end reconfigurability", IEEE Wireless Communications, [see also IEEE Personal Communications] Volume 13, Issue 3, June 2006 Page(s):46 – 57.		
3.	Demestichas, P.; Stavroulaki, V.; Boscovic, D.; Lee, A.; Strassner, J. 'm@ANGEL: autonomic management platform for seamless cognitive connectivity to the mobile internet', IEEE Communications Magazine, Volume 44, Issue 6, June 2006 Page(s):118 – 127.		
4.	Faure, C.; Tin Lin Lee; Boscovic, D., 'UMTS border planning issues', IEEE VTS 53rd Vehicular Technology Conference, 2001. VTC 2001 Spring. Volume 4, 6-9 May 2001 Page(s):2761 - 2765 vol.4 Digital Object Identifier 10.1109/VETECS.2001.944103.		
5.	D. Boscovic, M. Needham, F. Vakil and J. Yang, Low Carbon Economy considerations in designing and operating Content Delivery Networks for VoD ,Journal of Green Engineering, ISSN 1904-4720, River Publishers 2010		
6.	Dragan Bošković, Faramak Vakil, Content Delivery Networks for Video on Demand and IPTV Telekomunikacije, Vol 4 December 2009		
7.	Bourse, D.; El-Khazen, K.; Lee, A.; Boscovic, D.; Business Models of End-to-End Reconfigurable Systems Vehicular Technology Conference, 2006. VTC 2006-Spring. IEEE 63rd Volume 1, 2006 Page(s):57 - 61 Digital Object Identifier 10.1109/VETECS.2006.1682775		
8.	Dragan Boskovic, Vakil Faramak, Milenko Tosic, Stanisa Dautovic Pervasive wireless CDN for greening video streaming to mobile devices ,– MiPRO conference, Opatija 2011		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)				
9.	Dragan Boskovic, Vakil Faramak, Milenko Tomic, Stanisa Dautovic, Greening of video streaming to mobile devices by pervasive wireless CDN – Journal of Green Engineering, ISSN 1904-4720, River Publishers 2011			
10.	Ning Xu, Jin Yang, Mike Needham, Dragan Boskovic, Faramak Vakil - Toward the Green Video CDN IEEE/ACM Int'l Conference on Green Computing Hangzhou, Zhejiang Province, China, December 18-December 2010			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	30			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	0	International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Crnojević S. Vladimir	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 10.11.1995	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carieer	Year	Institution	Field
Academic title election:	2010		Telecommunications and Signal Processing
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK412	Shape Recognition	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	URZP32	Systems for Detection, Alarm and Warning	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	BM129A	Digital Image Processing	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK463	Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	DE311S	Selected topics in Pattern Recognition	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE511S	Wireless sensor networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK520	Medical Image Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	H1420	Fundamentals in Mechanical Vision	(H00) Mechatronics, Master Academic Studies
13.	IMDS54	Computer Vision in Industrial Engineering and Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
14.	ZP508	Design and Maintenance of the Fire Detection Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	DE311	Selected Chapters in Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	DE511	Wireless Sensor Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
18.	IMDR54	Computer Vision in Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Dejan Vukobratovic, Cedimir Stefanovic, Vladimir Crnojevic, Francesco Chiti, Romano Fantacci: "Rateless Packet Approach for Data Gathering in Wireless Sensor Networks", IEEE Journal on Selected Areas in Communications, Vol. 28, No. 7, pp. 1169-1179, September 2010.		
2.	Petrovic, N.I.; Crnojevic, V.: Universal Impulse Noise Filter Based on Genetic Programming, IEEE Transactions on Image Processing, 2008, Vol. 17, No. 7, str. 1109- 1120, ISSN 1057-7149		
3.	D. Culibrk, M. Mirkovic, V.Zlokolica, M. Pokric, V. crnojevic, D. Kukolj, "Salient Motion Features for Video Quality Assessment", IEEE Trans. on Image Processing, Volume: 20 Issue:4, pp(s): 948 - 958, ISSN: 1057-7149		
4.	Cedimir Stefanovic, Dejan Vukobratovic, Francesco Chiti, Lorenzo Niccolai, Vladimir Crnojevic, Romano Fantacci: "Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes", IEEE Journal on Selected Areas in Communications, Vol. 29, No. 1, pp. 94-102, January 2011.		
5.	Vladimir Crnojević, Nemanja Petrović, „Impulse Noise Filtering Using Robust Pixel-Wise S-estimate of Variance“, EURASIP Journal on Advances in Signal Processing, vol. 2010, Article ID 830702, 10 pages, 2010,		
6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593.		
7.	B. Antić, V. Crnojević, „Joint Domain-Range Modeling of Dynamic Scenes with Adaptive Kernel Bandwidth“, pp.777-788, LNCS 4678, Springer-Verlag, Berlin Heidelberg 2007.		
8.	N. Petrović, V. Crnojević, „Evolutionary Tree-Structured Filter for Impulse Noise Removal“, pp.103-113, LNCS 4179, Springer-Verlag, Berlin Heidelberg 2006.		
9.	N. Petrović, V. Crnojević, „Impulse Noise Detection Based on Robust Statistics and Genetic Programming“, pp.643-649, LNCS 3708, Springer-Verlag, Berlin Heidelberg 2005.		
10.	V. Crnojević, „Impulse Noise Filter With Adaptive Mad-Based Threshold“, International Conference on Image Processing, Genoa, Italy, 11-14. September, 2005.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		135	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 3 International : 10 </div>

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Crnojević-Bengin B. Vesna	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.11.1998	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Electronics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	1997	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM440	Computer-Aided Electronic Circuit Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	URZP32	Systems for Detection, Alarm and Warning	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
3.	ASO	Introduction to engineering	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
4.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BMI108	RF and microwaves in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EK322	RF and microwave engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK454	RF and microwave engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EM408A	RF and microwave electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EM420A	Modelling and simulation of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI26	RF and microwave technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	M4001	Fundamentals of electronic systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
12.	DE102S	Microwave Technique 1	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE500S	Microwave Technique 2	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	EM515	Periodic Structures and Metamaterials	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	SI022	Selected topics from microwave engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI034	Application of metamaterials in the microwave engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	ZP508	Design and Maintenance of the Fire Detection Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
18.	EM518A	Advanced simulation techniques of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
19.	DE102	Microwave Technique 1	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
20.	DE500	Microwave Technique 2	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	V. Crnojevic-Bengin, V. Radonic, and B. Jokanovic: Fractal Geometries of Split-Ring Resonators, IEEE Transactions of Microwave Theory and Techniques, Vol. 56, No. 10, pp. 2312-2321, October 2008.		
2.	B. Jokanovic, V. Crnojevic-Bengin, O. Boric-Lubecke, Miniature High Selectivity Filters Using Grounded Spiral Resonators, Electronics Letters, Vol. 44, No. 17, 14th August 2008		
3.	V. Radonić, V. Crnojević-Bengin, Super-compact stopband filter based on grounded patch resonator, Electronic letters, Vol. 46, No. 2, pp. 146-147, ISSN: 0013-5194, January 2010.		
4.	V. Crnojević-Bengin, V. Radonić, B. Jokanović, "Left-handed microstrip lines with multiple complementary split-ring and spiral resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2007), vol. 49, no.6, pp. 1391-1395		
5.	V. Crnojević-Bengin, "Compact 2D Hilbert microstrip resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2006) vol.48, no.2, pp. 270-273		
6.	V. Crnojević-Bengin, Đ. Budimir, "Novel 3-D Hilbert Microstrip Resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, John Wiley, vol. 46, no. 3, pp. 195-197, August 2005, ISSN: 0895-2477.		
7.	B. Jokanović, V. Crnojević-Bengin, "Novel left-handed transmission lines based on grounded spirals," Microwave and Optical Technology Letters, John Wiley, Vol. 49, No. 10, oktobar 2007, pp. 2561-2567		
8.	V. Radonic, K.Palmer, G. Stojanovic and V.Crnojevic-Bengin, Flexible Sierpinski Carpet Fractal Antenna on a Hilbert Slot Patterned Ground, International Journal of Antennas and Propagation, Vol. 2012, Article ID 980916, doi:10.1155/2012/980916		
9.	Zemlyakov, Kirill; Crnojevic-Bengin, Vesna, Planar low-pass filters based on hilbert fractal, MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 2012 54 (11):2577-2581		
10.	V. Radonić, K.D. Palmer and V. Crnojević-Bengin: "A dipole antenna design incorporating both electromagnetic bandgap and zero-refractive index metamaterials," METAMATERIALS, St. Petersburg, Russia, 17-22 September 2012		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		9	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	1
		International :	3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Čelanović L. Nikola	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.2008	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2000	Virginia Polytechnic Institute and State University - Tennessee	Power Electronics, Machines and Facilities
Magister thesis	1996	Virginia Polytechnic Institute and State University - Tennessee	Mechatronics, Robotics and Automation and Intelligent Systems
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EOS13	Electric Power Distribution System for Industrial Plants	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	EOS16	Software tool is power systems	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
7.	EOS22	Electrical installations of residential buildings	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
8.	EOS30	Electrical Design Calculation Software	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
9.	EOS27	Power electronics converters control	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
10.	DE108S	FACTs devices and power quality	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE113S	Power Electronics Applications in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE309S	Selected chapters in electrical machines transients	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
15.	EE545	Power Electronics with Distribution and Transmission Networks	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	ZCM11	Modern software tools for clean energy technologies	(ZC0) Clean Energy Technologies, Master Academic Studies
17.	DE309	Selected Chapters in Transient Phenomena in Electrical Machines	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	S. Grabić, N. Čelanović, V. Katić, "Permanent Magnet Synchronous Generator Cascade for Wind Turbine Application," IEEE Transactions on Power Electronics, vol. 23, no. 3, pp. 1136-1142, May 2008.		
2.	M. Vekić, S. Grabić, D. Majstorović, I. Čelanović, N. Čelanović, V. Katić, "Ultra Low Latency HIL Platform for Rapid Development of Complex Power Electronics Systems", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993,[Online]. Available: TPEL-Reg—2011-09-08.R1		

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>		
<h2 style="margin: 0;">Study Programme Accreditation</h2>			
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>	
<p>Representative references (minimum 5, not more than 10)</p>			
3.	<p>N. Čelanović, I. Čelanović, Z. Ivanović: Cyber Physical Systems: A New Approach to Power Electronics Simulation, Control and Testing, Advances in Electrical and Computer Engineering, Faculty of electrical engineering and computer sciences, University of Suceava, Romania, vol.12, Issue 1, pp. 33-38, Feb. 2012.</p>		
4.	<p>D. Majstorović, I. Čelanović, N. Teslić, N. Čelanović, V. A. Katić, „Ultra-Low Latency Hardware-in-the-Loop Platform for Rapid Validation of Power Electronics Designs”, IEEE Transactions on Industrial Electronics, USA, ISSN: 0278-0046, Vol. 58, No.10, pp.4708-4716, Oct.2011.</p>		
5.	<p>Z. Ivanović, E. Adžić, M. Vekić, S. Grabić, N. Čelanović, V. Katić, "HIL Evaluation of Power Flow Control Strategies for Energy Storage Connected to Smart Grid Under Unbalanced Conditions", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993, Available: 10.1109/TPEL.2012.2184772</p>		
6.	<p>N. Čelanović, D. Boroyevic, "A fast space-vector modulation algorithm for multilevel three-phase converters", IEEE Transactions on Industry Applications, vol. 37, no. 2, March/April 2001.</p>		
7.	<p>N. Čelanovic, D. Boroyevich, "A comprehensive study of neutral-point balancing problem in three-level neutral-point-clamped voltage source PWM inverters", IEEE Transactions on Power Electronics, vo. 5, no. 2, March 2000.</p>		
8.	<p>M. Goldfarb, N. Čelanović, "A flexure-based gripper for small-scale manipulation", Robotica, Cambridge University Press, vol. 17, March 1999, pp. 181-187.</p>		
9.	<p>M. Goldfarb, N. Čelanović, "A Lumped-Parameter electromechanical model for describing the nonlinear behaviour of piezoelectric actuators" ASME Journal of Dynamic Systems, Measurement and Control, vol. 119, no. 3, 1997, pp. 478-485.</p>		
10.	<p>M. Goldfarb, N. Čelanović, "Modeling piezoelectric stack actuators for control of micromanipulation", IEEE Control systems magazine, vol. 17, no. 3, 1997, pp. 67-79.</p>		
<p>Summary data for teacher's scientific or art and professional activity:</p>			
<p>Quotation total :</p>		<p>17</p>	
<p>Total of SCI(SSCI) list papers :</p>		<p>5</p>	
<p>Current projects :</p>		<p>Domestic :</p>	<p>0 International : 2</p>

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Čongradac D. Velimir	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.06.1998	
Scientific or art field:		Automatic Control and System Engineering	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	AU50	Process Control by Computer	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	E2311	Automation in smart office-residential buildings	(E20) Computing and Control Engineering, Undergraduate Academic Studies
12.	EMSAU ₁	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU04	Software of BMS	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU06	Software of Process Computers	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	AU514	Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Master Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation</h2>				
	UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
19.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies		
20.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
21.	SEAM02	Adaptive and advanced control	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
22.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
23.	SEAM05	Dynamic Programming, combinatorial and network optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
24.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
25.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788				
2.	Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788				
3.	Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X				
4.	Čongradac V., Kulić F.: HVAC system optimization with CO2 concentration control using genetic algorithms, Energy and Buildings, 2009, ISSN 0378-7788				
5.	Čongradac V.: Control of the lighting system using a genetic algorithm, Thermal Science, 2012, Vol. 16, No 1, pp. 237-250, ISSN 0354-9836, UDK: 621				
6.	Čongradac V.: Business process management in sustainable property/asset management by using the totalobserver, Thermal Science, 2012, Vol. 16, No 1, pp. 269-279, ISSN 0354-9836, UDK: 621				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			0		
Total of SCI(SSCI) list papers :			6		
Current projects :			Domestic :	1	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:	Damnjanović S. Mirjana		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.09.1994		
Scientific or art field:	Electronics		
Academic carier	Year	Institution	Field
Academic title election:	2011		Electronics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	H206	Introduction to Electronics	(H00) Mechatronics, Undergraduate Academic Studies
2.	H209	Digital Electronics	(H00) Mechatronics, Undergraduate Academic Studies
3.	BMI99	Electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E138A	Digital Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM407A	Computer aided design of digital integrated circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE302S	Design and Characterization of Components for EMI Protection	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE502S	Micro-sensors and MEMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EM423	EMI and EMC in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	BMIM1B	EMI and EMC in medicine equipment	(BM0) Biomedical Engineering, Master Academic Studies
10.	DE402S	Chosen areas of analogue, digital and RF integrated circuits design	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EM510A	Advanced computer aided design of microelectronic circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	DE302	Design and Characterization of Components for EMI Protection	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE502	Micro-sensors and MEMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
14.	DE402	Chosen areas of analogue, digital and RF integrated circuits design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Raghavendra R., Bellew P., Mcloughlin N., Stojanović G., Damnjanović M., Desnica V., Živanov Lj.: Characterization of Novel Varistor Inductor Integrated Passive Devices , IEEE Electron Devices Letters, 2004, Vol. 25, No 12, pp. 778-780, ISSN 0741-3106, UDK: 10.1109/LED.2004.838321
2.	Meničanin A., Damnjanović M., Živanov Lj., Aleksić O.: Improved Model of T-Type LC EMI Chip Filters Using New Microstrip Test Fixture , IEEE Transactions on Magnetics, 2011, Vol. 47, No 10, pp. 3975-3978, ISSN 0018-9464, UDK: 10.1109/TMAG.2011.2150738
3.	Damnjanović M., Živanov Lj., Stojanović G., Meničanin A.: Influence of Conductive Layer Geometry on Maximal Impedance Frequency Shift of Zig-zag Ferrite EMI Suppressor, IEEE Transactions on Magnetics, 2010, Vol. 46, No 6, pp. 1303-1306, ISSN 0018-9464
4.	Meničanin A., Damnjanović M., Živanov Lj.: Parameters Extraction of Ferrite EMI Suppressors for PCB Applications Using Microstrip Test Fixture, IEEE Transactions on Magnetics, 2010, Vol. 46, No 6, pp. 1370-1373, ISSN 0018-9464
5.	Stojanović G., Damnjanović M., Živanov Lj.: Temperature dependence of electrical parameters of SMD ferrite components for EMI suppression , Microelectronics Reliability, 2008, Vol. 48, No 7, pp. 1027-1032, ISSN 0026-2714, UDK: 10.1016/j.microrel.2008.03.020
6.	Damnjanović M., Živanov Lj., Nađ L., Đurić S., Biberdžić B.: A Novel Approach to Extending the Linearity Range of Displacement Inductive Sensor , IEEE Transactions on Magnetics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464
7.	Stojanović G., Damnjanović M., Desnica V., Živanov Lj., Raghavendra R., Bellew P., Mcloughlin N.: High performance zig-zag and meander inductors embedded in ferrite material , Journal of Magnetism and Magnetic Materials, 2006, Vol. 297, No 2, pp. 76-83, ISSN 0304-8853, UDK: 10.1016/j.jmmm.2005.02.058

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Damjanović M., Stojanović G., Desnica V., Živanov Lj., Ramesh R., Pat B., Neil M.: Analysis, design and characterization of ferrite EMI suppressors, IEEE Transactions on Magnetics, 2006, Vol. 42, No 2, pp. 270-277, ISSN 0018-9464, UDK: 10.1109/TMAG.2005.860485		
9.	Damjanović M., Živanov Lj., Đurić S., Marić A., Meničanin A., Radosavljević G., Blaž N.: Characterization and modelling of miniature ferrite transformer for high frequency applications, Microelectronics International, 2012, Vol. 29, No 2, pp. 83-89, ISSN 1356-5362		
10.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		77	
Total of SCI(SSCI) list papers :		15	
Current projects :		Domestic :	2
		International :	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:	Dautović B. Staniša		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.01.1993		
Scientific or art field:	Theoretical Electrotechnics		
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
Magister thesis	1997	Faculty of Sciences - Novi Sad	Mathematics
Bachelor's thesis	1991	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics


List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	E128F	Electrical Circuit Theory	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E128A	Electrical Circuit Theory	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM408A	RF and microwave electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM420A	Modelling and simulation of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM458	System Level Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE200S	Algorithms and Complexity-an Advanced Course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE300S	Randomised Approximation Algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE516S	Algoritmi za multiprocesorske sisteme	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	EM503	Algorithm Heuristics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	BMIM1C	Bioinformatics Algorithms	(BM0) Biomedical Engineering, Master Academic Studies
11.	EM405A	Formalne metode projektovanja i verifikacije hardvera	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EM415A	Algorithms for VLSI Physical Design Automation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EM518A	Advanced simulation techniques of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE200	Algorithms and Complexity-an Advanced Course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
15.	DE300	Randomised Approximation Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE516	Algoritmi za multiprocesorske sisteme	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	DAUTOVIĆ,S., NOVAK,L., A Comment on "Boolean Functions Classification via Fixed Polarity Reed-Muller Form". IEEE Trans. on Computers, Vol. 55, No. 8, (2006), 1067-1069.
2.	SEŠIĆ,A., DAUTOVIĆ,S., MALBAŠA,V., Dynamic Power Management of a System with a Two-Priority Request Queue Using Probabilistic Model Checking. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 27(2). Feb 2008.
3.	Tosic,M., Cirilovic,M., Ikovic,O., Kesler,D., Dautovic,S. Boscovic,D., Impact of Different Content Placement and Delivery Strategies on Content Delivery Capacity of the Wireless Mesh Networks, in Xiang-Yang Li, Symeon Papavassiliou, Stefan Rührup (Eds.): Ad-hoc, Mobile, and Wireless Networks - 11th International Conference, ADHOC-NOW 2012, Belgrade, Serbia, July 9-11, 2012. Proceedings. Lecture Notes in Computer Science 7363 Springer 2012, ISBN 978-3-642-31637-1 pp. 302-315
4.	Kesler D., Dautović S., Struharik R.: Design and Verification of Dynamically Reconfigurable Architecture, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012
5.	Dautović S., Vranjković V., Vukobratović B.: Boolean Function Minimization for Memristive Logic Circuits, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
6.	Struharik R., Vranjković V., Teodorović P., Dautović S.: A Survey of Nanoelectronic Computing Architectures, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5		
7.	Bošković D., Faramak V., Tošić M., Dautović S.: Pervasive wireless CDN for greening video streaming to mobile devices, 34. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroracionalima u telekomunikacijama, Opatija, 23-27 Maj, 2011		
8.	Vukobratović B., Dautović S.: Probabilistic Model Checking of Resistive Electrical Circuits, 16. Telekomunikacioni forum TELFOR, Beograd, 25-27 Novembar, 2008		
9.	DAUTOVIĆ,S., NOVAK,L., Evolutionary Design of Combinational Circuits using Boolean Function Signatures. WSEAS Trans. on Circuits and Systems, Issue 11, Volume 5, (2006), 1677-1681.		
10.	Dautović S., Acketa D., Mudrinski V.: Non-isomorphic 4-(48,5,lambda) designs from PSL(2,47) Naziv časopisa: Univ.Beograd.Publ.Elektrotehn.Fak. , Univ.Beograd.Publ.Elektrotehn.Fak., 1999, No 10, pp. 41-46		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		10	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	International :
		1	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Delić D. Vlado	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1989	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1993	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
6.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK452	Monitoring and Noise Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE212S	Selected Chapters in Acoustics and Audio Engineering	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE512S	Human-Machine Speech Communication	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies
19.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	S1596	Acoustics and Audio Engineering in Traffic	(S01) Postal Traffic and Telecommunications, Master Academic Studies
21.	DE111	Algorithms for Digital Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DE212	Selected Chapters in Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
<h2 style="text-align: center;">Study Programme Accreditation</h2>			
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
23.	DE512	Human-Machine Speech Communication	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	"Zbirka zadataka iz digitalnih telekomunikacija", V. Milošević, V. Delić, FTN&Stylos, 1996, p.189 i FTN, 2005, p.282		
2.	"Zbirka zadataka iz digitalne obrade signala", V. Delić, M. Sečujski, I. Radić, FTN, 2007, str. 176, (ISBN 978-86-7892-082-0)		
3.	"Postupak za smanjenje verovatnoće greške kod produženog telefonskog biranja niza cifara", V. Delić, V. Šenk; Patent u Srbiji 48734 (P-434/97), 2009		
4.	"Govorni portal za slepe i slabovide osobe - KONTAKT", V. Delić u grupi autora, Jedinstven proizvod u regionu baziran na dijalogu čovek-mašina, rezultat inovacionog projekta kod Ministarstva nauke (PTR-2078) 2005/2006		
5.	"Speech Signal Processing in ASR&TTS Algorithms", V. Delić, D. Pekar, R. Obradović, M. Sečujski, Facta Universitatis (Niš), Series: Electronics and Energetics, vol. 16, no. 3, (2003), pp. 355-364		
6.	"A Review of R&D of Speech Technologies in Serbian and their Applications in Western Balcan Countries", V. Delić, pp. 64-83, Keynote lecture at XII international conference "Speech and Computer" (SPECOM), Moskva, 15-18.10.2007.		
7.	"Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition", V. Delić, M. Bojanić, M. Gnjatović, M. Sečujski, S.T. Jovičić; Electronics and Electrical Engineering, ISSN 1392-1215, Vol. 18, No. 9, November of 2012, pp. 51-54, DOI:10.5755/j01.eee.18.9.2806		
8.	"Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy", I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379		
9.	"Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction", M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5		
10.	"A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models", B. Popović, M. Janev, D. Pekar, N. Jakovljević, M. Gnjatović, M. Sečujski, V. Delić; Applied Intelligence, Springer-Verlag N. York, Inc., ISSN 0924-669X, Volume 37, Number 3, Page 377-389, (2012) DOI: 10.1007/s10489-011-0333-9		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		52	
Total of SCI(SSCI) list papers :		14	
Current projects :		Domestic :	4
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Doroslovački D. Rade	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1978	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1989	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1984	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E101	Discrete Mathematics	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
5.	IM1706	Actuerial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	SE0009	Discrete Mathematics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	OM503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
8.	OM509	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
9.	OM511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
10.	OML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML509	Applaid Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
12.	OML511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
13.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
14.	OM519	Actuerial Mathematics	(OM1) Mathematics in Engineering, Master Academic Studies
15.	OML519	Actuerial Mathematics	(OM1) Mathematics in Engineering, Master Academic Studies


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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M17	Combinatorics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M20	Graph Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M34	Actuarial Mathematics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	DOM31	Combinatorial Matrix Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	R. Doroslovački, R. Tošić and I. Stojmenović: Generating and counting triangular system, BIT: 27(1987) 18-24, Kobenhavn, R 54		
2.	R. Doroslovački, R. Tošić i J. Gutman: Topological properties of benzenoid systems, XXXVIII, the boundary code, Match in mathematical chemistry (19) (219-228) Max- Plank-Institut fur Strahlchemie, Mulheim (1986)		
3.	Rade Doroslovački: Binary Sequences without 01...10, Matematički vesnik, Mathematical Society of Serbia, 46 (1994), 93-98.		
4.	Rade Doroslovački: On binary n-words with forbidden 4-subwords, (1997/01) Novi Sad Journal of Mathematics.		
5.	R. Doroslovački, J. Pantović, G.Vojvodić: Note on Itersection of Maximal Clones, (1998/02) Novi Sad, Journal of Mathematics.		
6.	R. Doroslovački, J. Pantović, G. Vojvodić: Classification of Maps by their Membership in Maximal Clones that contain Minimum and Complement, Matematički vesnik,, Mathematical Society of Serbia, 51, (1999), 21-28		
7.	Rade Doroslovački, Jovanka Pantović and Gradimir Vojvodić: One Interval in the Lattice of Partial Hyperclones, Czechoslovak Mathematical Journal, 55 (130),2005, 719-724, (R52)		
8.	O. Bodroža-Pantić, R. Doroslovački, K. Doroslovački, AN ELEMENTARY PROOF OF A THEOREM CONCERNING THE DIVISION OF A REGION INTO TWO," in Rocky Mountain Journal of Mathematics, Vol. 37, No.5, 2007, R 52		
9.	O. Bodroža-Pantić, R. Doroslovački, The Gutman formulas for algebraic structure count, Journal of Mathematical Chemistrz Vol.35,No.2, Februar 2004, R 51.		
10.	Ratko Tošić, Gradimir Vojvodić, Dragan Mašulović, Rade Doroslovački, Jovanka Rosić: Two examples of relative completeness, Multiple Valued Logic, An International Journal (Journal of Multiple-Valued Logic and Soft Computing), (1996), Vol. 2, pp. 67-78.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		60	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Đurić M. Nikola	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1997	
Scientific or art field:		Theoretical Electrotechnics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	H108	Fundamentals of Electrical Engineering 2	(H00) Mechatronics, Undergraduate Academic Studies
5.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI94	Fundamentals of Electrical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	DE416S	Investigation of electromagnetic fields	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE517S	Technology of magnetic and optical data storage	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
14.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
15.	DE416	Investigation of electromagnetic fields	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



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List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Đurić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499			
2.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362			
3.	Đurić N., Kavečan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference on Advances in Future Internet - AFIN, Rim, 19-24 August, 2012, pp. 55-59, ISBN 978-1-61208-211-0 (Best paper award)			
4.	Đurić N., Kavečan N., Kljajić D.: The EM Field Register of the SEMONT Broadband Monitoring Network, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012, pp. 27-30, ISBN 978-1-4673-4748-8			
5.	Đurić N., Šenk V.: The MAP Implementation in Logic Circuits for Soft-decision Decoding of MTR Codes, 6. European Modeling Symposium - EMS, Malta, 14-16 Novembar, 2012, pp. 201-206, ISBN 978-0-7695-4926-2/12			
6.	Đurić N., Prša M., Kasaš-Lažetić K.: Information Network for Continuous Electromagnetic Fields Monitoring, International Journal of Emerging Sciences - IJES, 2011, Vol. 1, No 4, pp. 516-525, ISSN 2222-4254			
7.	Vukobratović B., Đurić N.: Monitoring of EMF with SEMONT system, 6. International PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields – CEMBEF, Novi Sad, 28-30 Jun, 2012, pp. 63-66, ISBN 978-86-7892-410-1			
8.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04			
9.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1			
10.	Đurić N., Šenk V., Vasić B.: MAP Decoding of MTR Codes in Multiple-Head Magnetic Recording Systems, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 164-167, ISBN 978-1-4577-2018-5			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		0		
Total of SCI(SSCI) list papers :		2		
Current projects :		Domestic :	3	International : 2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Erdeljan M. Aleksandar	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 24.07.1989	
Scientific or art field:		Automatic Control and System Engineering	
Academic carier	Year	Institution	Field
Academic title election:	2011		Automatic Control and System Engineering
PhD thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1993	School of Electrical Engineering - Beograd	Automatic Control and System Engineering
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	ESI001	Software Tools in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
10.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU09	Software design of SCADA systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SEI002	Architecture of Distributed Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies



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List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
13.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
15.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
17.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
18.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
19.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
21.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
22.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
23.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
24.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221		
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883		
3.	Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215		
4.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836		
5.	Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215		
6.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445		
7.	Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X		
8.	Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X		
9.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456		
10.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		1	
Total of SCI(SSCI) list papers :		9	
Current projects :		Domestic :	3 International : 0



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Gak M. Dragana	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 16.09.2009	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Entrepreneurial Management - Novi Sad	English
Magister thesis	2010	Faculty of Philosophy - Novi Sad	English and American Literature
Bachelor's thesis	2000	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies	
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies	
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies	

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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
26.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
27.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	ISIT01	English Language 1	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		



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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies		
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Gak Dragana, Lorejn Hansberi i (afro) američka porodica, Zadužbina Andrejević, Beograd, 2012				
2.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str. 705-709, Beograd, 2009.				
3.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str.329-333, Beograd, 2009.				
4.	Bogdanović Vesna, Gak Dragana, Univerzalana simbolika na primeru afro-američke zajednice u drami Lorejn Hansberi, Sveske, broj 98, decembar , Pančevo, 2010				
5.	Gak Dragana, Borković Bojana, Needs Analysis: A Basis of a Successful Business English Course, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 880-885, Beograd, 2011.				
6.	Bulatović Vesna, Gak Dragana, Speaking Skills: Advantages and Problems Involved When Teaching Business English, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 235-240, Beograd, 2011.				
7.	Gak Dragana, Textbook - An Important Element in the Teaching Process, Metodčki vidici, Filozofski fakultet Novi Sad, str.78-82, Novi Sad, 2011.				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>			
Representative references (minimum 5, not more than 10)			
8.	Gak Dragana, Questionnaire - an Instrument for Collecting Valuable Data from Teachers of Business English Courses, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012		
9.	Mirović Ivana, Gak Dragana, Trust Me I'm an Engineer, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :	Domestic :		International :

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Grabić U. Stevan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		10.10.1997	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM434	Power Electronics	(H00) Mechatronics, Undergraduate Academic Studies
5.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	EOS12	Power electronics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
7.	EOS17	Software tool in power electronics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
8.	EOS23	Wind Energy Conversion System	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
9.	EOS32	Grid connected renewable energy systems	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
10.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
14.	M2551	Hybrid and electric vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies
15.	M2552	Automotive electrics	(M22) Mechanization and Construction Engineering, Master Academic Studies
16.	S0I51Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
17.	SI011	Wind, solar and small hydro power plants	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
18.	SI041	Grid connected renewable energy systems	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
19.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	S.Grabić, N.Čelanović, V.Katić: Series Converter Stabilized Wind Turbine with Permanent Magnet Synchronous Generator, 35th IEEE Power Electronics Specialists Conference PESC 2004, Aachen (Germany), pp. 464-468.		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
2.	M.Vekić, Z.Ivanović, S.Grabić, V.Katić: Control of Variable Speed Wind Turbine Under Grid Disturbances, 13th International Symposium on Power Electronics - Ee2005, Novi Sad, no.T7-1.1.		
3.	Z.Ivanović, M.Vekić, S.Grabić, V.Katić: Control of Multilevel Converter Driving Variable Speed Wind Turbine in Case of Grid Disturbances, 12th International Power Electronics and Motion Control Conference EPE-PEMC 2006, Portoroz (Slovenija), pp. 1569-1573.		
4.	E.Adžić, S.Grabić, V.Katić: Analysis and Control Design of STATCOM in Distribution Network Voltage Control Mode, VIth International Symposium Nikola Tesla, 2006, Beograd, 135-138.		
5.	M.Milošević, G.Andersson, S.Grabić: Decoupling Current Control and Maximum Power Point Control in Small Power Network with Photovoltaic Source, Power Systems Conference and Exhibition PSCE 2006, no.10.5, pp.1005-1011.		
6.	V.Katić, Z.Čorba, D.Milićević, S.Grabić, Z.Ivanović, M.Vekić, E.Adžić, B.Dumnić: Modeling of Wind and Solar Electric Power Sources for Application in Vojvodina, PSU-UNS International Conference on Engineering and Environment - ICEE 2007, Phuket (Thailand).		
7.	Z.Ivanović, M.Vekić, S.Grabić, V.Katić: Modelovanje i analiza rada mrežnog invertora u slučaju nesimetrije u sistemu, 50. konferencija ETRAN, Beograd, jun 2006, str.344-347		
8.	Ivanović Z., Adžić E., Vekić M., Grabić S., Čelanović N., Katić V.: HIL Evaluation of Power Flow Control Strategies for Energy Storage Connected to Smart Grid Under Unbalanced Conditions, Available: 10.1109/TPEL.2012.2184772, IEEE Transaction on Power Electronics, 2012, Vol. 27, ISSN 0885-8993		
9.	Vekić M., Grabić S., Majstorović D., Čelanović I., Čelanović N., Katić V.: Ultra Low Latency HIL based Rapid Development of Complex Power Electronics Systems, IEEE Transaction on Power Electronics, 2012, ISSN 0885-8993		
10.	Grabić S., Čelanović N., Katić V.: Permanent Magnet Synchronous Generator Cascade for Wind Turbine Application, IEEE Transaction on Power Electronics, 2008, Vol. 23, No 3, pp. 1136-1142, ISSN 0885-8993		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		36	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	International :
		2	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Grahovac M. Nenad	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		29.12.2004	
Scientific or art field:		Mechanics	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Continuum Mechanics
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
2.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GG07	Mechanics 1	(G00) Civil Engineering, Undergraduate Academic Studies
4.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
6.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
7.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	M4401	Continuum mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
12.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
14.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
15.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
16.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
17.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies



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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
18.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
19.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, Vol. 22, No 4, pp. 1-10, ISSN 0218-1274		
2.	Grahovac N., Žigić M.: Modelling of the hamstring muscle group by use of fractional derivatives, Computers and Mathematics with Applications, 2010, Vol. 59, No 5, pp. 1695-1700, ISSN 0898-1221.		
3.	Glavardanov V., Maretić R., Grahovac N.: Buckling of a twisted and compressed rod supported by Cardan joints , European Journal of Mechanics - A: Solids, 2009, Vol. 28, pp. 131-140, ISSN 0997-7538		
4.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180		
5.	Grahovac N., Žigić M.: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008		
6.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)		
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010		
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)		
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165-172, ISBN 978-86-909973-0-5, UDK: 531/534(082)		
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov's Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		5	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Grbić P. Tatjana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.12.1995	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1993	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303B	Probability and Mathematical Statistics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z203	Statistical Methods	(Z01) Safety at Work, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	IA001	Algebra	(F10) Engineering Animation, Undergraduate Academic Studies
9.	IA002	Mathematical Analysis	(F10) Engineering Animation, Undergraduate Academic Studies
10.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
11.	S01361	Business decision making	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
12.	OM505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
13.	OML505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies


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	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
14.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
17.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
18.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
23.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
24.	D0M52	Random Sets	(OM1) Mathematics in Engineering, Doctoral Academic Studies
25.	D0M53	Statistical Processing of Fuzzy Data	(OM1) Mathematics in Engineering, Doctoral Academic Studies
26.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
27.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Ralević, N.M., Nedović, Lj., Grbić, T., : "The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral", Fuzzy sets and systems, 2005, No.155, 89-101		

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>			
<p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>				
<p>Representative references (minimum 5, not more than 10)</p>				
2.	Nedović, Lj., Ralević, N. M., Grbić, T.,: " Large deviation principle with generated pseudo measures", Fuzzy sets and systems, 2005, No. 105, 65-76			
3.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Pseud-Riemann-Stieltjes integral ", Information Sciences 179, 2009, 2923-2933			
4.	M. Štrboja, T. Grbić, I. Štajner-Papuga, G. Grujić, S. Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions, FSS, doi:10.101016/j.fss.2012.07.011			
5.	Grbić, T., Pap, E., : "Generalization Of Portamnteau theorem with respect to the pseudo-weak convergence of random closed sets", Theory of Probability and its Applications, 2009, 97-115			
6.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292			
7.	T. Grbić, S. Medić, I. Štajner-Papuga, T. Došenović, Inequalities of Jensen and Chebyshev type for interval-valued measures based on pseudo-integrals. In: Intelligent Systems: Models and Applications, E. Pap, Ed., Springer-Verlag, pp 23-41, DOI:10.1007/978-3-642-33959-2_2			
8.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Riemann-Stieltjes type integral based on generated pseudo-operations", NS J. Mathe., Vol. 36, No. 2, 111-124			
9.	Nedović, Lj., Grbić, T., "The pseudo-probability", Journal of Electrical Engineering, 2002, Vol. 53, No. 12/s, 27-30			
10.	Mihailović, B., Nedović, T., Grbić, T., "The induced Sugeno integral-based operator w.r.t. bi-fuzzy measures", Journal of Electrical engineering, Vol. 54, No. 12/s, 76-79			
<p>Summary data for teacher's scientific or art and professional activity:</p>				
Quotation total :	17			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	2	International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:			Gušavac J. Strahil
Academic title:			Assistant Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			01.10.1992
Scientific or art field:			Electroenergetics
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2011	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1999	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE407	Electrical Installations and Industrial Power Engineering	(E S0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE425	Energy Converter Control	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	S0I51Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Tehnička analiza eksploatacione pouzdanosti elektroenergetskih posteojenja industrije cementa		
2.	Razvoj metodologije za efikasno održavanje nadzemnih vodova uz uvažavanje pouzdanosti		
3.	S. Gušavac, M. Nimrihter, Lj. Gerić : Estimation of overhead line condition, Electric Power Systems Research 78 (2008) 566–583., ISSN 0378-7796.		
4.	Lj. Gerić, S. Gušavac : Analysis of Electric Power Consumption and Possibilities of Load Management in the Cement Factory of Beočin, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 133-141. ISSN 0354-8449, 621.3(082).		
5.	Lj. Gerić, P. Đapić, S. Gušavac : Direct Load Control in Residential Sector of Electrical Power System, Monograph : Contemporary Problems in Power Engineering, Edited by D. Gvozdenac, J. Xypteras and M. Dimić, Faculty of Tehnical Sciences - Novi Sad (Yugoslavia) and Aristotel University - Thessaloniki (Greece), 1995., pp. 237-250. . ISSN 0354-8449, 621.3(082).		
6.	S. Gušavac,S. Đukić, J. Lukić i Lj. Krička : Ocena stanja temelja i stubova nadzemnog voda, , Elektroprivreda, broj 1, 2008, ISSN 0013-5755, UDC 620.9, Beograd, strane 82-95, UDK: 624.153.542.2, 621.315		
7.	Lj. Gerić, P. Đapić, S. Gušavac, M. Nimrihter : Direktna kontrola opterećenja u konzumu široke potrošnje, Monografija “Savremeni aspekti elektroenergetike”, uredio V. Katić, Fakultet tehničkih nauka - Institut za energetiku i elektroniku, Novi Sad, 1995, str. 67-85., 621.31(082)		
8.	S. Gušavac, M. Nimrihter, Ž. Savanović, D. Melović,: Sophisticated Estimation of Damages Due to Outage Costs in Industry, by Method of Tehnological Process Simulation, 2003 IEEE Bologna Power Tech Conference, June 23th-26th, Bologna, Italy, paper 399.		
9.	S. Gušavac, M. Nimrihter, S. Novaković, Ž. Savanović: Overhead Lines Maintenance Information System, Colloquium on Overhead Lines Revitalization, Beograd, May 06-10,2003, paper R3-01. ISBN 86-82317-46-X, 621.316.1(082)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	1
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Gvozdenac D. Dušan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.06.1973	
Scientific or art field:		Thermal Energetics and Thermotechnics	
Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
PhD thesis	1981	Faculty of Mechanical Engineering - Beograd	Thermal Energetics and Thermotechnics
Magister thesis	1978	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
Bachelor's thesis	1973	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EOS38	Energetski menadžment	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
2.	M119	Energy Transformations	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
3.	M222A	Energy System Engineering	(M30) Energy and Process Engineering, Undergraduate Academic Studies
4.	M3311	Renewable Energy Sources	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5.	M3501	Refrigeration Devices	(M30) Energy and Process Engineering, Undergraduate Academic Studies
6.	Z206	Alternative Power Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z206A	Alternative Energy Sources	(Z01) Safety at Work, Undergraduate Academic Studies
8.	Z206	Alternativna energetika(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	E2313	Fundamentals of Process and Energy Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	II1044	Energy flows and energy efficiency	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	M211	Measurement and Regulation	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
12.	M3031	Engineering Calculations of Energy Technologies Apparatus and Equipment	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	M3494	Energy efficiency	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
14.	I939	Merenje, nadzor i upravljanje	(M50) Energy Management, Master Academic Studies
15.	IMDS78	Odabrana poglavlja iz energetskog menadžmenta(uneti naziv na engleskom)	(I22) Engineering Management, Specialised Academic Studies
16.	M3503	Dinamika i modeliranje termoeenergetskih postrojenja(uneti naziv na engleskom)	(M30) Energy and Process Engineering, Master Academic Studies
17.	M3M07	Energy storage	(ZC0) Clean Energy Technologies, Master Academic Studies
18.	M5022	Renewable energy sources	(M50) Energy Management, Master Academic Studies
19.	SZSP24	Savremeni principi energetskog menadžmenta	(Z00) Environmental Engineering, Specialised Academic Studies
20.	DM216	Energy Systems	(M00) Mechanical Engineering, Doctoral Academic Studies
21.	DM217	Energy Management in Idustry	(M00) Mechanical Engineering, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD			
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
22.	DM218	Contemporary Energy Technologies	(M00) Mechanical Engineering, Doctoral Academic Studies	
23.	DM219	Energy Politics	(M00) Mechanical Engineering, Doctoral Academic Studies	
24.	DM302	Engineering Experimental Methods	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies	
25.	DM309	Energy Management Methods	(M00) Mechanical Engineering, Doctoral Academic Studies	
26.	DM332	Energy Management in Buildings	(M00) Mechanical Engineering, Doctoral Academic Studies	
27.	DM333	Renewable Energy Resources	(M00) Mechanical Engineering, Doctoral Academic Studies	
28.	ZSP24	Modern Principles of Energy Management	(Z00) Environmental Engineering, Doctoral Academic Studies	
29.	IMDR78	Odabrana poglavlja iz energetskog menadžmenta (uneti naziv na engleskom)	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Energy Efficiency in Food Processing Industry – East European Experience, edited by D. Gvozdenac, UNDP/UNIDO Project DP/RER/83/003, Novi Sad, pp. 123, 1991.			
2.	Contemporary problems in Power Engineering (monograph), Novi Sad/Thessaloniki, Gvozdenac D, Xypteras J, Dimić M. 1996.			
3.	Measurement and regulation (Selected chapters for operators of large power plants), Institute of energy and process engineering, Novi Sad, Gvozdenac, D, Pešenjanski, I, 1980. (in Serbian).			
4.	Measurement and Regulation in Thermal Engineering, Faculty of Technical Sciences, Gvozdenac, D, Novi Sad, 2000. (in Serbian).			
5.	Bilansiranje energetskih tokova, Pokrajinski centar za energetiku efikasnost, Gvozdenac, D., Marić, M., Petrović, J., Novi Sad, 2006.			
6.	Gvozdenac D, Menke C, Vallikul P, Petrovic J, Gvozdenac B: Assessment of potential for natural gas-based cogeneration in Thailand, Energy, Volume 34, Issue 4, 2009, pp 465-475			
7.	A Mathematical Model for Heat Transfer in Combustion Chambers of Steam Generators, Gulić, M, Gvozdenac, D, Transactions of the ASME Journal of Engineering for Power, Vol. 103, 1981, pp. 545 – 551.			
8.	Somcharoenwattana W, Menke C, Kamolpus D, Gvozdenac D: Study of Operational Parameters Improvement of Natural-Gas Cogeneration Plant in Public Buildings in Thailand, Energy and Buildings, Vol. 43, Issue 4, April, 2011. p. 925-934			
9.	Two-pass counter cross-flow heat exchangers with both fluids unmixed throughout, Gvozdenac, D, Waerme - und Stoffuebertragung, Vol. 20, 1986, pp. 151 – 161.			
10.	Analytical Solution of the Transient Response of Gas-to-Gas Cross-flow Heat Exchanger With Both Fluids Unmixed, Gvozdenac, D.D, ASME Journal of Heat Transfer, Vol. 108, 1986, pp. 722-727.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		71		
Total of SCI(SSCI) list papers :		26		
Current projects :		Domestic :	2	International : 1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Hajduković P. Miroslav	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.07.1993	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1984	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1980	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1977	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	E2529	Parallel and distributed architectures	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Hajduković M., "Programski jezik CONCERT", Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
2.	Hajduković M., "Organizacija računara", Pomoćni udžbenik, Fakultet tehničkih nauka, 1996.		
3.	Hajduković M., Suvajdžin Z., "Uvod u međunarodni standard IEC 61131-3", Pomoćni udžbenik, Fakultet tehničkih nauka, 2002.		
4.	Hajduković M., "Operativni sistemi", Osnovni udžbenik, Fakultet tehničkih nauka, 2004.		
5.	Hajduković M., "Arhitektura računara", Osnovni udžbenik, Fakultet tehničkih nauka, 2004.		
6.	Hajduković M. i ostali, "The active side principle approach to the client server protocol design", YUJOR, vol. 6, no. 1, Belgrade, 1996., 121- 127		
7.	Hajduković M. i ostali, "Uninterruptable and other regions", YUJOR, vol. 8, no. 2, Belgrade, 1998., 323- 329		
8.	Hajduković M. i ostali, "Communication models: an educational framework for parallel programming", YUJOR, vol. 9, no. 1, Belgrade, 1999., 129- 139		
9.	Hajduković M. između ostalih, "Character oriented program editing – habit or necessity?", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 53- 65		
10.	Hajduković M. između ostalih, "A problem of program execution time measurement", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 67- 73		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		11	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	1 International : 0

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications


Name and last name:		Jeftenić I. Borislav	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		School of Electrical Engineering - Beograd 11.03.1974	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2011	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
PhD thesis	1987	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1978	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1972	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE418	Electric Motor Drives	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE427	Control of Electrical Drives	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE535	Electric Traction Vehicles	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	B. Jeftenić, V. Vasić, Đ. Oros, "Elektromotorni pogoni - zbirka rešenih zadataka" Akademska misao, Beograd 2003		
2.	B. Jeftenić, V. Vasić, Đ. Oros, "Regulisani elektromotorni pogoni - rešeni problemi sa elementima teorije" Akademska misao, Beograd 2004		
3.	B.I.Jeftenić, V.Vučković, "Praktikum za laboratorijske vežbe iz elektromotornih pogona", ETF Beograd, treće prošireno izdanje 2000. ISBN 86-7466-106-8		
4.	B. Jeftenić, M. Bebić, S. Štatić, "Višemotorni električni pogoni", ISBN: 978-86-7466-402-5, Akademska misao, Beograd 2011. god, 214 strana, COBISS.SR.ID 183865100		
5.	L. B. Ristić, B. I. Jeftenić, "Implementation of Fuzzy Control to Improve Energy Efficiency of Variable Speed Bulk Material Transportation", IEEE Transactions on Industrial Electronics, vol. 59, pp. 2959-2969, 2012, Digital Object Identifier (DOI) 10.1109/TIE.2011.2169639, ISSN 0278-0046		
6.	Borislav Jeftenić, Milan Bebić, "Realization of Rewinder with a Reduced Number of Sensors", IEEE Transactions on Industrial Electronics, ISSN 0278-0046, August 2010, vol. 57, no. 8, pp. 2797 – 2806, Digital Object Identifier 10.1109/TIE.2009.2036638		
7.	Jevremovic, V. R.; Vasic, V.; Marcetic, D. P.; Jeftenic, B., "Speed-sensorless control of induction motor based on reactive power with rotor time constant identification", IET ELECTRIC POWER APPLICATIONS 2010 4 (6):462-473., ISSN 1751-8660		
8.	B. I. Jeftenić, L. B. Ristić, "Electrostatic Shaft Voltage at the Crack – Gas Compressor: the Phenomenon Analyses, Testing, Measuring and the Problem Solution", International Review of Electrical Engineering (IREE), February 2008, ISSN: 1827- 6660, pp. 23-32		
9.	Nebojsa MITROVIC, Vojkan KOSTIC, Milutin PETRONIJEVIC, Borislav JEFTENIC, "Multi-Motor Drives for Crane Application", Advances in Electrical and Computer Engineering, Volume 9, Number 3, 2009, pp. 57-62, doi: 10.4316/AECE.2009.03011., ISSN 1582-7445, e-ISSN 1844-7600		
10.	B. Jeftenić, S.Statkić, M. Bebić, L. Ristić, "New concept of electrical drives for paper and board machines based on energy efficiency principles", Thermal Science 4/2006, Časopis termičara Srbije i Crne gore, Vol. 10, Number 4, Belgrade 2006, ISSN: 0354-9836, pp. 63-78. (UDC:676.026.23/.25, BIBLID:0354-9836)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		64	
Total of SCI(SSCI) list papers :		13	
Current projects :		Domestic :	2
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Juhas T. Anamarija	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.11.1990	
Scientific or art field:		Theoretical Electrotechnics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EOS01	Fundamental electrical engineering	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	I087	Electrical Engineering in Industrial Engineering	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
4.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	II1007	Fundamental electrical engineering	(I10) Industrial Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	URZP12	Introduction to electrical engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE408S	Selected chapters inl electromagnetics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
12.	DE208	Selected Chapters on Electromagnetic Compatibility	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE408	Selected Chapters in Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	A. Juhas, L. A. Novak, "Comments on "Class-E, Class-C, and Class-F power amplifier based upon a finite number of harmonics", IEEE Transactions of Microwave Theory and Techniques, vol. 57, no. 6, pp. 1623-1625, June 2009. ISSN 0018-9480.		
2.	A. Juhas, L. A. Novak, S. Kostić, "Signals with Flattened Extrema in Balance Power Analysis of HFHPTA: Theory and Applications", IEEE Transactions on Broadcasting, vol. 47, no. 1, pp.38-45, 2001. ISSN 0018-9316		
3.	S. Kostić, L. A. Novak, A. Juhas, "Increasing Efficiency and Output Power of HFHPTA by Injection of Two Harmonics", IEEE Transactions on Broadcasting, vol. 47, no. 1, pp.32-37, 2001. ISSN 0018-9316		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	D. Herceg, A. Juhas, M. Milutinov, "A design of a four square coil system for a biomagnetic experiment," Facta universitatis - series: Electronics and Energetics, 2009, Vol. 22, No 3, pp. 285-292. ISSN 0353-3670		
5.	L. A. Novak, A. Juhas, "O broju maksimuma u dvočlanim složenoperiodičnim funkcijama: krive katastrofa", Elektrotehnika, br. 1-2, pp. E7-E10, 1994.		
6.	A. Juhas, M. Milutinov, M. Prša, "Magnetic field of multi-line power system", Scientific bulletin of the "Politehnica" University of Timisoara, Proceedings of the 7th Int. Power Systems Conf., Timisoara, Romania, 22-23 Nov. 2007, Tom 52, pp. 319-328. ISSN 1582-7194.		
7.	M. Milutinov, A. Juhas, M. Prša, "Electric and magnetic field in vicinity of overhead multi-line power system", Acta Electrotehnica, Proceedings of the 2nd Int.I Conf. on Modern Power Systems MPS 2008, Cluj-Napoca, Romania, 12-14 Nov.r 2008, pp. 313-316. ISSN 1841-3323.		
8.	A. Juhas, M. Milutinov, N. Pekarić-Nadž, "Iskustva u primeni nacionalnih pravilnika o nejonizujućim zračenjima", Telekomunikacije, No 7, pp. 70-77, 2011. ISSN 1820-7782		
9.	A. Juhas, M. Milutinov, D. Herceg, M. Prša, N. Pekarić-Nadž, "Uređaj za generisanje homogenog magnetskog polja kontrolisanog intenziteta za potrebe biomagnetskih ekspreimenata", Tehničko rešenje, decembar 2010.		
10.	A. Juhas, N. Pekarić-Nadž, D. Herceg, " Estimation of Human Exposure to Combined RF EM Field of Multiple Antennas," Proceedings of International PhD Seminar on computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 Sep., 2010, pp. 27-31, ISBN 978-954-438-856-0		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		5	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Katić A. Vladimir	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1978	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE431	Renewable Sources and Small Power Plants	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EZ300	Clean Electrical Energy Sources	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	EZ400	Clean Energy Sources Design	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
8.	DE209S	Energy Converters in Renewable Energy Sources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE413S	Integration of Distributed Energy Resources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE505S	Power Quality in Distribution Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE506S	Renewable Electrical Energy Sources	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE509S	Effects of Power Converters on Network and Environment	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	S0151Ž	Electrical Substation and Electric Traction	(S00) Traffic and Transport Engineering, Master Academic Studies
16.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	EE564	Distributed Energy Resources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	ZCM02	Clean technologies for electrical vehicles	(ZC0) Clean Energy Technologies, Master Academic Studies
19.	ZCM08	Renewable and Distributed Electrical Energy Sources	(ZC0) Clean Energy Technologies, Master Academic Studies
20.	DE108	FACTS Devices and Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE113	Application of Power Electronics in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE209	Energy Converters in Renewable Power Sources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
		<h2 style="text-align: center;">Study Programme Accreditation</h2>		
		UNDERGRADUATE ACADEMIC STUDIES	Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
23.	DE413	Integration of Distributed Energy Resources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
24.	DE505	Power Quality in Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
25.	DE506	Renewable Electrical Energy Sources	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
26.	DE509	Effects of Power Converters on Network and Environment	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
27.	SID04	Current State in the Field	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies	
28.	MSID04	Present State in the Field	(M40) Technical Mechanics, Doctoral Academic Studies	
29.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Vladimir Katić: "Kvalitet električne energije – viši harmonici", Univerzitet u Novom Sadu - Fakultet tehničkih nauka, Edicija Tehničke nauke - Monografije, Br. 6, Novi Sad, 2002., ISBN 86-80249-57-2.			
2.	Vladimir Katić: "Energetska elektronika - Zbirka rešenih zadataka", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 66, Novi Sad, 1998, tiraž 500 primeraka, strana 430, Pomoćni udžbenik, ISBN 86-499-0017-8.			
3.	Vladimir Katić, Darko Marčetić, Dušan Graovac: "Energetska elektronika – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 124, Novi Sad, 2000, tiraž 300 primeraka, strana 85, Pomoćni udžbenik, ISBN 86-499-0081-X.			
4.	Vladimir Katić, Vlado Porobić, Darko Marčetić: "Primena mikroprocesora u energetici – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Tehničke nauke - Udžbenici, Broj 149, Novi Sad, Dec. 2006, tiraž 300 primeraka, strana 122, Pomoćni udžbenik, ISBN 86-7892-013-0.			
5.	Vladimir Katić: „Upravljanje energetskim pretvaračima“, Fakultet tehničkih nauka – WUS, Novi Sad, 2006, tiraž 20 primeraka, str.175, Skripta.			
6.	Dušan Graovac, Vladimir Katić, Alfred Rufer: "Power Quality Problems Compensation with Universal Power Quality Conditioning System", IEEE Transaction on Power Delivery, USA, ISSN 0885-8977, Vol.22, No.2, April 2007, pp.968-976.			
7.	Vladimir Katić, Jovan Knežević, Dušan Graovac: "Application-Oriented Comparison of the Methods for AC/DC Converter Harmonics Analysis", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.50, No.6, December 2003, pp.1100-1108.			
8.	Vladimir Katić, Dušan Graovac: "A Method for PWM Rectifier Line Side Filter Optimization in Transient and Steady States", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993, Vol.17, No.3, May 2002, pp.342-352.			
9.	Dušan Graovac, Vladimir Katić: "On-Line Control Of Current Source Type Active Rectifier Using Transfer Function Approach", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.48, No.3, June 2001, pp.526-535.			
10.	Vladimir Katić: "Modern Power Electronics Technologies for Wind Power Plants", Invited Paper, Electronics/Elektronika, Banja Luka (BIH-R.Srpska), Vol.10, No.2, Dec.2006, YU ISSN 1450-5843, pp.3-9.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :			122	
Total of SCI(SSCI) list papers :			19	

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES</p> <p>Power, Electronic and Telecommunication Engineering</p>				
Current projects :	Domestic :	5	International :	1	


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Katić M. Marina	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.2001	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Master's thesis	2009	Faculty of Philology - Beograd	English
Magister thesis	2006	Faculty of Philology - Beograd	Engineering Management
Bachelor's thesis	1987	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies		
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
29.	ISIT01	English Language 1	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies		
			(I20) Engineering Management, Undergraduate Academic Studies		
35.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
36.	SSIP21	English Language	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies		
37.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies		
			(ES0) Power Software Engineering, Undergraduate Academic Studies		
			(F10) Engineering Animation, Undergraduate Academic Studies		
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
38.	EJ2Z	English Language – Intermediate	(AH0) Architecture, Master Academic Studies		
			(E20) Computing and Control Engineering, Undergraduate Academic Studies		
			(ES0) Power Software Engineering, Undergraduate Academic Studies		
			(F10) Engineering Animation, Undergraduate Academic Studies		
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
39.	eja	English Language – a Specialized Course	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
			(AH0) Architecture, Master Academic Studies		
40.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
41.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
42.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Marina Katić, Kostadin Pušara, "Standardization of E-Commerce Terminology", Annals of the Faculty of Engineering Hunedoara, Vol.III, Part 2, 2005, ISSN 1584-2665, Edition Mirton, Timisoara (Romania), pp.31-36.		
2.	M.Katić, "O tehnikama prevođenja nekih engleskih termina energetske elektronike", 11th International Symposium on Power Electronics – Ee 2001, Novi Sad, Oct.-Nov.2001, pp.154-157.		
3.	M.Katić, "Terminology of E-Commerce", 7th International Symposium on Interdisciplinary Regional Research – ISIRR 2003, Hunedoara (Romania), Sept. 2003, CD-ROM – Paper 0104.		
4.	M.Katić, "Key Terms of Business Environment", PSU-UNS Int. Conference Energy and Environment, Hat Yai (Thailand), Dec. 2003, .		
5.	Marina Katić, Kostadin Pušara, "Need for E-Commerce Term Standardization and Harmonization", Western Business & Management Conference 2004, Las Vegas (USA), Oct.2004, CD ROM.		
6.	Marina Katić, Kostadin Pušara, "Standardization of E-Commerce Terminology", VIII International Symposium on Interdisciplinary Regional Research - ISSIR 2005, Szeged (Hungary), 19-21. 04. 2005., University of Szeged, CD ROM.		
7.	M.Katić, "Deregulacija u elektroprivredi sa aspekta tumačenja i prevođenja engleskih termina na srpski jezik", III Jugoslovensko savetovanje o elektrodistributivnim mrežama, JUKO-CIRED, Vrnjačka Banja, Okt. 2002, Sveska 4, P-7.04, pp.153-158, (knjiga i CD ROM).		
8.	M.Katić, "Engleski jezik u službi međunarodnog menadžmenta", XII međunarodna konferencija Industrijski sistemi – IS 2002, Vrnjačka Banja, Nov. 2002, pp.146-151		
9.	M.Katić, "Anglicizmi u jeziku tehnike", XLVII Konferencija ETRAN, Herceg Novi, Jun 2003, CD-ROM i knjiga, Sveska 3, pp. 241-244.		
10.	M.Katić, K.Pušara, „Zašto je potrebna standardizacija termina elektronske trgovine“, XLIX Konferencija za ETRAN, Budva, 05.-10. 06. 2005., Zbornik radova, CD-ROM i knjiga, Sveska 3, pp.238-241.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Katić A. Nenad	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2002	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1991	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1982	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EOS35	Tržište električne energije	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
2.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI012	Smart Grid Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	EZ301	Cost-effective and energy-efficient electrical systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	DE107S	Decision-Making Optimization	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE312S	Power Market and Regulation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE405S	Smart Grid Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE406S	Electric Power Industry in the Free Market Economy	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE508S	Power System Economics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE510	Economic Methods in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	ZCM02	Clean technologies for electrical vehicles	(ZC0) Clean Energy Technologies, Master Academic Studies
16.	ZCM05	Electric Power Market	(ZC0) Clean Energy Technologies, Master Academic Studies
17.	ZCM08	Renewable and Distributed Electrical Energy Sources	(ZC0) Clean Energy Technologies, Master Academic Studies
18.	DE107	Decision-Making and Optimization	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DE312	Electricity Markets and Regulation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
20.	DE405	Smart Grid Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE406	Electric Power Industry in the Free Market Economy	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
<h2 style="text-align: center;">Study Programme Accreditation</h2>			
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
22.	DE508	Power System Economics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Katić N., Savić M.: Autori: Nenad Katic, Milan Savic Naziv: Technical and economical optimisation of overhead power distribution line lightning protection , IEE Proc.-Gener.Transm.Distrib, 1998, No 3, pp. 239-244		
2.	Katić V., Dumnić B., Katić N., Milićević D., Grabić S.: Potentials and Market Prospective of Wind Energy in Vojvodina, Thermal Science - International Scientific Journal, 2012, Vol. 16, ISSN 0354-9836, UDK: 621		
3.	Strezoski V., Katić N., Janjić D.: Voltage Control Integrated in Distribution Management System, Electrical Power System Research, 2001, No 60, pp. 85-97		
4.	Katić N.: Yugoslavia Develops a New Distribution Management System , Utility Automation, USA, a PennWell Publication, 1996, pp. 30-35		
5.	Katić V., Dumnić B., Čorba Z., Milićević D., Katić N.: Potentials of Renewable Energy Market in Serbia – Case of Wind and Solar Energy, 8. IEEE International Conference on European Energy Market – EEM, Zagreb, 25-27 Maj, 2011, pp. 785-790, ISBN 978-1-61284-284-4		
6.	Katić N., Marijanović V., Stefani I.: Smart Grid Solutions in Distribution Networks - Cost Benefit Analysis, 4. China International Conference on Electricity Distribution ICED, Nanjing, 12-16 Septembar, 2010, pp. 1-6		
7.	Katić N.: PROFITABILITY OF SMART GRID SOLUTION APPLICATION IN DISTRIBUTION NETWORK, 7. Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion, Agia Napa, 7-10 Novembar, 2010, pp. 1-6		
8.	Katić N., Strezoski V., Popović D.: Business Benefits of DMS Software Application in Competitive Distribution, 17th International Conference on Electricity Distribution CIRED		
9.	Katić N., Strezoski V., Popović D.: DMS Software Applications a Powerful Tool for the New Challenges in Deregulated Power Distribution, Balkan Power Conference		
10.	Katić N., Strezoski V., Katić V.: Introducing the Management and ECTS in Electrical Power Engineering Education, ISIRR		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		16	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	3
		International :	14


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Konjović D. Zora	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1981	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1985	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1973	Faculty of Sciences - Novi Sad	Mathematics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E231	Numerical Algorithms and Numerical Software	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E236A	Computational Intelligence Fundamentals	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E2K42	Knowledge Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	BMI101	Introduction to Medical Informatics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
9.	E2513	Semantic Web	(E20) Computing and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
10.	E2514	Biologically inspired computing	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies		
12.	E2525	Contemporary educational technologies and standards	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
14.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies		
15.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
16.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
17.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
18.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies		
19.	DRNI17	Selected Topics in ICT enhanced learning	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Obradovic Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (2011). The maximal distance between imprecise point objects, Fuzzy Sets and Systems, Vol. 170 no. 1, pp. 76-94				
2.	Obradovic Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Linear Fuzzy Space Based Road Lane Detection. Knowledge-Based Systems (rad objavljen u elektronskom obliku http://www.sciencedirect.com/science/article/pii/S0950705112000032)				
3.	Kovačević Aleksandar, Konjović Zora, Milosavljević Branko, Nenadić Goran (2012). Mining methodologies from NLP publications: A case study in automatic terminology recognition, Computer Speech And Language, Vol. 26 no. 2, pp. 105-126				
4.	Gostojić Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (2012). Context-sensitive Access Control Model for Government Services. Journal of Organizational Computing and Electronic Commerce, Vol. 22 no. 2, pp. 184-213				
5.	Sladić Goran, Milosavljević Branko, Surla Dušan, Konjović Zora (2012). Flexible Access Control Framework for MARC Records. Electronic Library (ISSN: 0264-0473), 30:5, pp. 623-652				
6.	Savić Goran, Segedinac Milan, Konjović, Zora (2012).Automatic Generation of E-Courses Based on Explicit Representation of Instructional Design. Computer Science and Information Systems. Vol. 9 no. 2, pp. 839 – 869.				
7.	Sladić Goran, Milosavljević Branko, Konjović Zora, Vidaković Milan (2011). Access Control Framework for XML Document Collections. Computer Science and Information Systems / ComSIS (ISSN: 1820-0214), 8:3, pp. 591-609				
8.	Ivanovic Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compatible data model based on MARC 21 format, Electronic Library, Vol. 29 no. 1, pp. 52-70				
9.	Kovacevic Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Konjovic Zora, Surla Dusan (2011). Automatic extraction of metadata from scientific publications for CRIS systems, Program-Electronic Library and Information Systems, Vol. 45 no. 4, pp. 376-396				

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
Representative references (minimum 5, not more than 10)			
10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		15	
Current projects :		Domestic :	2 International : 1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Kostić Z. Marko	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.10.1999	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2001	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS07	Mathematics 2	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F101	Mathematics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	G1107	Mathematical Analysis 1	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	ISIT06	Matematika 2	(S11) Software and Information Technologies (Indija), Undergraduate Professional Studies
10.	OM501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	Z506	20BAAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies


		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
16.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
17.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Kostić, Marko, Distribution cosine functions. Taiwanese J. Math. 10 (2006), no. 3, 739--775.				
2.	Kostić Marko, On analytic integrated semigroups. Novi Sad J. Math. 35 (2005), no. 1, 127--135.				
3.	Kostić Marko, Convolved $\mathcal{C}\mathcal{S}$ -cosine functions and convolved $\mathcal{C}\mathcal{S}$ -semigroups. Bull. Cl. Sci. Math. Nat. Sci. Math. No. 28 (2003), 75--92.				
4.	Kostić Marko, On a class of quasi-distribution semigroups, Novi Sad J. Math 36 (2), 137-152				
5.	M. Kostić, P. J. Miana, Relations between distribution cosine functions and almost-distribution cosine functions, Taiwanese Journal of Mathematics 11 (2007), 531--543.				
6.	M. Kostić, S. Pilipović, Global convoluted semigroups, accepted in Math. Nachr.				
7.	M. Kostić, S. Pilipović: Convolved C-cosine functions and semigroups. Relations with ultradistribution and hyperfunction sines, accepted in J. Math. Anal. Appl.				
8.	M. Kostić: Complex powers of operators, accepted in Publications De l'Institut Mathématique				
9.	M. Kostić: C-Distribution semigroups, Studia Math. 185 (2008), 201--217.				
10.	M. Kostić: Convolved operator families and abstract Cauchy problems, accepted in Kragujevac Journal of Mathematics				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			32		
Total of SCI(SSCI) list papers :			15		
Current projects :			Domestic :	1	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Kovačević M. Ilija	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1972	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	1990	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Mathematics - Beograd	Mathematical Sciences
Magister thesis	1975	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1971	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	OM501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
7.	OML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
8.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
9.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	GS012	Selected Chapters in Mathematics	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
12.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
13.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	I.Kovačević, On alfa-Hausdorff subsets, almost closed mappings and almost upper semicontinuous decomposition, Indian Jurnal of Pure and Applied mathematics 20 (4) 1989., 334-340.				
2.	N. Adžić, I. Kovačević, V. Marić, V. Ungar, Matematička analiza 2, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 1996., 1-299.				
3.	I. Kovačević, N. Ralević, Funkcionalna analiza,FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje)2004., 1-203.				
4.	I. Kovačević, N. Ralević, B. Carić, V. Marić, M. Novković, S. Medić, Matematička analiza 1- uvodni pojmovi i granični procesi ,(Ponovljeno i dopunjeno izdanje), FTN (Edicija tehničke nauke-udžbenici) Novi Sad, 2012, 1-155.				
5.	I.Kovačević, V.Marić, M. Novković, B. Carić, N. Ralević, S. Medić, Matematička analiza 1 - diferencijalni i integralni račun, obične diferencijalne jednačine (Ponovljeno i dopunjeno izdanje),FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 2012., 1-280.				
6.	I. Kovačević, Algebra, Naučna knjiga, Beograd, 1990., 1-116.				
7.	I.Kovačević, N.Ralević, V.MarićV.Čurić, Integrali funkcija više promenljivih i teorija polja, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 2012, 1-191				
8.	I.Kovačević, Some properties of Mn subsets and almost closed mappings, Indian J.pure appl. Math., 27(9), 1996., 875-881.				
9.	I.Kovačević, On almost closed mapping, paracompactness and partial equivalence relatuions, Indian Journal of Pure and Applied mathematics, 25(9), 1994., 949-954.				
10.	Kiurski J., Oros I., Ralević N., Kovačević I., Adamović (Majkić) S., Krstić J., Čomić L.: Cluster and principal component analysis in the assessment of fountain solution quality, Carpathian Journal of Earth and Environmental Sciences, 2013, Vol. 8, No 1, pp. 19-23, ISSN 1842-4090				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			28		
Total of SCI(SSCI) list papers :			7		
Current projects :			Domestic :	3	International : 2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Kovačević V. Jelena	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.1999	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carier	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2010		Computer Engineering and Computer Communication
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	RT44	DSP Architecture and Algorithms 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	RT46	DSP Architecture and Algorithms 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	RT52	Dedicated Computer Structure Design 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	EK465	Architectures of digital signal processors	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	RT59	Real-Time System Design	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT06	Selected chapters on DSP systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>			
<h2 style="margin: 0;">Study Programme Accreditation</h2>				
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>		
<p>Representative references (minimum 5, not more than 10)</p>				
1.	<p>Kovacevic Jelena, Samardzija Dragan, Temerinac Miodrag, "Joint coding rate control for audio streaming in short range wireless networks", IEEE TRANSACTIONS ON CONSUMER ELECTRONICS Vol: 55 Nr: 2 Str: 486 - 491 ISBN: ISSN: 0098-3063, 2009 (M22)</p>			
2.	<p>Kovacevic Jelena, Samardzija Dragan, Temerinac Miodrag, "Optimized Joint Coding Algorithm for Audio Streaming in Short Range Wireless Networks", International Conference on Consumer Electronics, Las Vegas, ISBN: 978-1-4244-4701-5, Izdovac: IEEE Consumer Electronic Society, 2009.</p>			
3.	<p>Simic Dragan, Lukac Zeljko, Stefanovic Dejan, Kovacevic Jelena, Babic-Zdravkovic Sanja, "Real-time implementation of waveform interpolative voice codec with aspect to very low bit-rates" MIPRO - International convention on information and communication technology, electronics and microelectronics, Croatian Society For Microprocessor Systems And Information Systems, Microelectronics And Electronics, ISBN: 953-233-003-8, 2004.</p>			
4.	<p>Jovanovic Marija, Kovacevic Jelena, "Partitioning DSP Applications on a Multi-core Architecture Based on Load Balancing", IEEE Eastern European Conference on the Engineering of Computer Based Systems, Str: 154 – 155, ISBN: 978-1-4244-4677-3, Izdovac: IEEE, 2009.</p>			
5.	<p>Jovanovic Marija, Sajic Dejan, Kovacevic Jelena, "Optimization of lossless audio decoders on a class of embedded systems with two cores", International Conference on Digital Signal Processing, str. 1-6, ISBN: 978-1-4244-3297-4, Izdovac: IEEE, 2009.</p>			
6.	<p>Popovic Miroslav, Basicevic Ilija, Velikic Ivan, Kovacevic Jelena, "A Model-Based Statistical Usage Testing of Communication Protocols", 13th Annual IEEE International Symposium and Workshop on Engineering of Computer Based Systems (ECBS'06), Str: 377 – 386, ISBN: 0-7695-2546-6, Izdovac: ECBS</p>			
7.	<p>Popovic Miroslav, Kovacevic Jelena, "A Statistical Approach to Model-Based Robustness Testing", 14th Annual IEEE International Conference and Workshop on Engineering of Computer Based Systems, str: 485 – 494, ISBN: 0-7695-2772-8, Izdovac: IEEE, 2007.</p>			
8.	<p>Djukic Miodrag, Četic Nenad, Kovačević Jelena, Popovic Miroslav, "A C Compiler Based Methodology For Implementing Audio DSP Applications on a Class of Embedded Systems", ISCE, IEEE, ISBN: 978-1-4244-2422-1, 2008.</p>			
9.	<p>Gajic Marko, Kovacevic Jelena, Petrovic Djordje, Temerinac Miodrag, Teslic Nikola, "A SMART POST PROCESSING ALGORITHM FOR REMOVING AUDIO DISTORTION" IBC 2011, Amsterdam Vol., Nr., Str.0-0, ISBN:, ISSN:, Izdovac: IBC 2011</p>			
10.	<p>Gajic Marko, Kovacevic Jelena, Djukic Miodrag, Peckai-Kovac Robert, "Using a Simple Algorithm in SPP for Audio Quality Improvement Checkout" 19th Telecommunications forum TELFOR 2011, Serbia, Belgrade, November 22-24, 2011. Vol., Nr., Str. 1115-1118, ISBN: 978-1-4577-1498-6, ISSN: CFP1198P-CDR, Izdovac: Društvo za telekomunikacije – TELFOR</p>			
<p>Summary data for teacher's scientific or art and professional activity:</p>				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Kozmidis-Luburić F. Uranija	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1975	
Scientific or art field:		Physics	
Academic carier	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1988	Faculty of Sciences - Novi Sad	Physical Science
Magister thesis	1986	Faculty of Physics - Beograd	Physical Science
Bachelor's thesis	1974	Faculty of Sciences - Novi Sad	Physical Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	EOS06	Physics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	S014	Physics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	A401	Architectural Physics	(A00) Architecture, Undergraduate Academic Studies
5.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
6.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	U.F.Kozmidis-Luburić and B.S.Tošić, "NON-LINEAR OPTICAL EFFECTS AND THE DIELECTRIC PROPERTIES OF CRYSTALS", Physica B 112, 331(1982)		
2.	D.Mirjanić, U.F.Kozmidis-Luburić, M.M.Marinković and B.S.Tosić, "COMBINED EFFECT OF EXCITON-EXCITON AND EXCITON-PHONON INTERACTION ON CRYSTALS DIELECTIC PROPERTIES", Can. J. Phys. 60, 1838(1982)		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	U.F. Kozmidis-Luburić and B.S. Tošić, "KINEMATICAL INTERACTION OF OPTICAL EXCITATION AND CONSEQUENCES", Physica A 153, 266(1988)		
4.	Lj. Budinski-Petković and U.Kozmidis-Luburić, "J AMING CONFIGURATIONS FOR IRREVERSIBLE DEPOSITION ON A SQUARE LATTICE", Psysica A 236, 211(1997)		
5.	Lj. Budinski-Petković and U. Kozmidis-Luburić, "RANDOM SEQUENTIAL ADSORPTION ON A TRIANGULAR LATTICE", Psysical Review E 56, 6904(1997)		
6.	V.Sajfert,B.S.Tošić,M.Marinković and U.F.KOZMIDIS-LUBURIĆ,"SURFACE DEFORMATION IN FILMS AND EXCITON CONCETRATION", Physica A 166, 430(1990)		
7.	B.S.Tošić, Lj.Mašković, U. F. KOZMIDIS-LUBURIĆ, V.Jovovic and G. Davidovic, "Transition FROM THE DEFORMED STRUCTURE TO THE STATISTICALLY EQUIVALENT IDEAL STRUCTURE AND AN ESTIMATE OF THE BASIS PHYSICAL CHARACTERISTICS OF THE DEFORMED STRUCTURE", Physica A 216, 478(1995)		
8.	V.Jovović, G.Davidović, B.S.Tošić,Lj.Mašković, U.F.KOZMIDIS-LUBURIĆ and D.Čirić,"MASS DISTRIBUTION IN HETEROGENEOUS STRUCTURES", Physica A 223,263(1996)		
9.	Lj. Budinski-Petković and U. KOZMIDIS-LUBURIĆ, "IRREVERSIBLE DEPOSITION ON DISORDERED SUBSTRATES: LINE SEGMENTS ON A SQUARE LATTICE", Physica A 245,261(1997)		
10.	Lj. Budinski-Petković and U. KOZMIDIS-LUBURIĆ, "IRREVERSIBLE DEPOSITION OF DIRECTED SELF-AVOIDING RANDOM WALKS ON A SQUARE LATTICE", Physica A 262,388(1999)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		68	
Total of SCI(SSCI) list papers :		23	
Current projects :		Domestic :	1
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Kozmidis-Petrović F. Ana	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1975	
Scientific or art field:		Physics	
Academic carier	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1984	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1980	Faculty of Mathematics - Beograd	Physical Science
Bachelor's thesis	1972	Faculty of Sciences - Novi Sad	Physical Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	GG06	Civil Engineering Physics	(G00) Civil Engineering, Undergraduate Academic Studies
3.	M101	Technical Physics	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	ZR440	Influence of radiation on health and occupational safety	(Z01) Safety at Work, Undergraduate Academic Studies
5.	ZC008	Technical physics	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
7.	SZD017	Solid Materials in the Environment	(Z00) Environmental Engineering, Specialised Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
8.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
9.	FDS141	Selected Chapters in Colour Management	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
10.	ZD017	Solid Materials in the Environment	(Z00) Environmental Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	D. M. Petrović, A. F. Petrović, V. M. Leovac, S. R. Lukić: Thermal decomposition of Cu(II) complexes with salicylaldehyde S-methylthiosemicarbazone, Journal of Thermal Analysis, 42, 1165-1170, 1994.				
2.	S.R. Lukić, D. M. Petrović, A. F. Petrović, F. Skuban, I.I. Turyanitsa: Tendency towards crystallization of Ge-As-Te system glasses, Journal of Materials Science Lett., 15,.				
3.	A. F. Petrović, S. R. Lukić, D. M. Petrović, E. Z. Ivegeš, V. M. Leovac: Metal complex with pyrazole derived ligands. Part IV. Thermal decomposition of Cobalt(II) complexes with 3(5)-amino-4-acetyl 5(3) methylpyrazole, Journal of Thermal Analysis, 47, 879-886,				
4.	S. R. Lukić, D. M. Petrović, A. F. Petrović: Effect of copper on conductivity of amorphous AsSe ₂ , Journal of Non-Crystalline Solids, 241, 74-77, 1998.				
5.	S. R. Lukić, V. M. Leovac, A. F. Petrović, S. J. Skuban, V. I. Češljević, M. M. Garić: Metal Complexes with Pyrazole-derived Ligands. XIII. Synthesis and Thermal Studies of Zn(II) Complexes with 3-amino-4-acetyl-5-methylpyrazole, Synth.React.Inorg. Met.-Org.Chem.,2002				
6.	S. R. Lukić, S. J. Skuban, D. M. Petrović, A. F. Petrović, M. Garić, Characteristics of complex non-crystalline chalcogenides from the Ge-As-S-Se-I system, Journal of Optoelectronics & Advanced Materials, 6(3), 755-768, 2004.				
7.	A. F. Petrović, S.R. Lukić, D.D. Štrbac: Critical rate of cooling glassy melts under conditions of continuous nucleation. The application to some chalcogenide glasses, Journal of Optoelectronics & Advanced Materials, 6(4) 1167-1177, 2004.				
8.	S. R. Lukić, D. M. Petrović, Ž. N. Cvejić, A F. Petrović, F. Skuban: Thermally-induced Structural Changes in Copper-containing Chalcogenide Thin Films, Journal of Optoelectronics & Advanced Materials, 3(2), 337-340, 2001.				
9.	S.R. Lukić, D.M. Petrović, G.R.Štrbac, A.F.Petrović, M Šiljegović : Effect of sulfur atom substitute with selenium on stability of glassy Ge ₂₀ As ₁₄ SxSe _{52-x} 14, Journal of Physics and Chemistry of Solids 66, 1683-1686 (2005)				
10.	A.F.Kozmidis-Petrovic, G.R.Strbac, D.D.Strbac, Kinetics of non-isothermal crystallization of chalcogenide, J.Non-Cyst.Solids, 2014–2019, 353(2007)2014				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			153		
Total of SCI(SSCI) list papers :			25		
Current projects :			Domestic :	1	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Kulić J. Filip	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1994	
Scientific or art field:		Automatic Control and System Engineering	
Academic carier	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU44	Control Systems Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E238A	Control Systems Technology	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	EEI302	Systems of Automatic Control in Power Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
7.	M325	Automatic Control Systems	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
8.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2315	Electrical Machines in Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EMSAU ₁	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
13.	DE410S	Selected Topics in the Field of Automatic Control	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies


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		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
14.	E2515	Intelligent Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
15.	M2550	Automatic Control Systems in Motor Vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies		
16.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies		
17.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
18.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies		
19.	DE410	Selected Topics in the Field of Automatic Control	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
20.	SID04	Current State in the Field	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies		
21.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
22.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Dragan Kukolj, Vesna Bengin, Filip Kulić: Osnovi klasične teorije automatskog upravljanja kroz rešene probleme, Sombor, Somel, 1995. 241str., UDK: 681.5(075.8),				
2.	Dragan Kukolj, Filip Kulić: Projektovanje sistema automatskog upravljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka, 1995. 232str., UDK: 681.5(075.8),				
3.	D.Kukolj, F.Kulić, E.Levi: Design Of The Speed Controller For Sensorless Electric Drives Based On AI Techniques: A Comparative Study, Artificial Intelligence in Engineering, 2000, Vol. 14, str. 165- 174				
4.	D.Kukolj, S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, Wide Range Fuzzy Logic Controller, Fuzzy Sets and Systems, 2001, Vol. 120, No. 1, str. 17- 34				
5.	D.Kukolj, F.Kulić, D.Popović, Z.Gorečan: Determining Topological Changes and Critical Load Levels of a Power System by Means of Artificial Neural Network, Electric Machines and Power Systems, 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.				
6.	D.Kukolj, D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, European Transactions on Electrical Power (ETEP), 1998, Vol. 8, No. 3, str. 207- 212, ISSN 1430-144X.				
7.	D.Popović, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Stability Margins Using Artificial Neural Networks with a Reduced Input Set, IEE Proc. -Gener. Transm. Distrib. 1998. Vol. 145, No. 4, str. 355- 362, ISSN 1350-2360.				

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>			
Representative references (minimum 5, not more than 10)				
8.	Matić Dragan, Kulić Filip, Pineda-Sanchez Manuel, Kamenko Ilija: "Support vector machine classifier for diagnosis in electrical machines: Application to broken bar", Expert Systems With Applications, vol.39 br.10, str. 8681-8689, 2012.			
9.	Čongradac Velimir, Kulić Filip: "Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation", Energy and Buildings, vol. 47, str. 651-658; April 2012.			
10.	Ilić Slobodan; Vukmirović Srđan; Erdeljan Aleksandar; Kulić Filip: "Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, vol.16, br. , str. S215-S224, 2012			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	32			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	2	International :	0

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications

Name and last name:		Kupusinac D. Aleksandar	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.04.2007	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2005	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E131	Object-Oriented Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	EOS36	Elektronsko poslovanje i ugovaranje	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
4.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
5.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Kupusinac A.: Zbirka rešenih zadataka iz programskog jezika C++. Novi Sad: FTN, 2011.		
2.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503		
3.	Dobromirov D., Radišić M., Kupusinac A.: Emerging markets arbitrages' perception: Risk versus growth potential, African Journal of Business Management, 2011, Vol. 5, No 3, pp. 713-721, ISSN 1993-8233		
4.	Kupusinac A., Malbaški D.: Automatic Verification of Inheritance, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011, pp. 177-180, ISBN 978-86-7892-341-8		
5.	Malbaški D., Kupusinac A.: Classification of Invariants in Class Based on Conceptual Definitions, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011, pp. 181-185, ISBN 978-86-7892-341-8		
6.	Sečujski M., Kupusinac A., Pekar D.: Prediction of phone duration in Serbian language based on decision trees, 3. Die Unterschiede zwischen dem Bosnischen/ Bosniakischen, Kroatischen und Serbischen, Graz, 16-18 April, 2009, pp. 229-240		
7.	Kupusinac A., Sečujski M.: Part-of-Speech Tagging Based on Combining Markov Models and Machine Learning, 3. Speech and Language, Beograd: IEPSP, LAAC, 13-14 Novembar, 2009, pp. 324-333, ISBN 978-86-81879-26-9		
8.	Delić V., Sečujski M., Kupusinac A.: Transformation-Based Part-Of-Speech Tagging For Serbian Language, 8. WSEAS Intl. Conf. on Computational Intelligence, Man-Machine Systems and Cybernetics (CIMMACS), Peurto de la Cruz: Tenerife, Spain, 14-16 Decembar, 2009, pp. 98-103		
9.	Malbaški D., Kupusinac A.: The Strong Object Invariant, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 1, pp. 9-15, ISSN 2217-8309		
10.	Kupusinac A., Malbaški D.: Analysis of Loop Semantics using S-formulas, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 2, pp. 72-77, ISSN 2217-8309		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	2
		International :	0


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Ličen S. Branislava	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		07.04.2005	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	2009	Faculty of Philosophy - Novi Sad	Philology
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	E2110	Izborni strani jezik 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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		Study Programme Accreditation		
		UNDERGRADUATE ACADEMIC STUDIES	Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
8.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
9.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies	
10.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
11.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies	
12.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies	

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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
		Study Programme Accreditation		
		UNDERGRADUATE ACADEMIC STUDIES	Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
13.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies	
14.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies	
15.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies	
16.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	
17.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	
18.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies	
19.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	
20.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	
21.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies	
22.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies	
23.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies	
24.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies	
25.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies	
26.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies	



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
27.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
28.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
30.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
31.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
33.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
35.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
36.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
38.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
39.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
40.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
41.	EJ2Z	English Language – Intermediate	(AH0) Architecture, Master Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
42.	eja	English Language – a Specialized Course	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
43.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
44.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
45.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	"Formal and Aesthetic Aspects of Nadine Gordimer's Short Story", Romanian Journal of English Studies, University of the West Timisoara, br. 7, 2010., str.191-198.		
2.	"Summarization Skills of Engineering Students' Reading in a Second Language", Jezik struke, izazovi i perspektive, Univerzitet u Beogradu, 2011., str. 291-299.		
3.	"On Race, Ethnicity and Gender in Nadine Gordimer's 'Jump and Other Stories", Selected Papers in Literature and Culture from the 9th HUSSE Conference, Pecs, 2010., str. 285-290.		
4.	"Living in the Interregnum: Nadine Gordimer's 'Conservationist', 'Burger's Daughter' and 'July's People'", B.A.S. Conference on British and American Studies, University of the West Timisoara, br.XXI, maj 2011., str. 28.		
5.	"Preispitivanje istorijskog konteksta u Barnsovom romanu Floberov papagaj", Sveske, br.100, Pančevo, jun 2011., str. 69-77.		
6.	"Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str.445-454.		
7.	"Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str. 170-176.		
8.	Zajednica i pojedinac u delima Toni Morison u romanima Najplavlje oko, Sula, Voljena i Katreno luče, 2009.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Lončarević M. Ivana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.06.2004	
Scientific or art field:		Physics	
Academic carieer	Year	Institution	Field
Academic title election:	2010		Physics
PhD thesis	2010	Faculty of Physics - Beograd	Physical Science
Magister thesis	2008	Faculty of Physics - Beograd	Physical Science
Bachelor's thesis	2003	Faculty of Sciences - Novi Sad	Physical Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	EOS06	Physics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	GG06	Civil Engineering Physics	(G00) Civil Engineering, Undergraduate Academic Studies
4.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
6.	M101	Technical Physics	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	ETI06	Physics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ZC008	Technical physics	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Budinski-Petković Lj., Lončarević I., Petkovic M., Jaksic Z., Vrhovac S.: Percolation in random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2012, Vol. 85, No 061117, pp. 1-8		
2.	Budinski-Petković Lj., Lončarević I., Jakšić Z., Vrhovac S., Švrakić N.: Simulation study of anisotropic random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2011, Vol. 84, No 5, pp. 5160-1		
3.	Šćepanović J., Lončarević I., Budinski-Petković Lj., Jakšić Z., Vrhovac S.: Relaxation properties in a diffusive model of k-mers with constrained movements on a triangular lattice, Physical Review E, 2011, Vol. 84, No 031109, pp. 1-13		
4.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468		
5.	Lončarević I., Budinski-Petković Lj., Vrhovac Lj., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2		
6.	Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates, Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7		
7.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice, The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice, Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9		
9.	Lončarević I.: Irreversible deposition of extended objects with diffusional relaxation on discrete substrates, The European Physical Journal B, 2010, No 73, pp. 439-445		
10.	Satačić M., Kozmidis-Luburić U., Budinski-Petković Lj., Lončarević I.: Intrinsic Electric Fields as a Control mechanism of Intracellular Transport along Microtubules, Journal of Computational and Theoretical Nanoscience, 2009, Vol. 6, pp. 721-731, ISSN 1546-1955		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		12	
Current projects :		Domestic :	International :
		1	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Lončar-Turukalo G. Tatjana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.05.2006	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BMI105	Statistical basics, processing and modelling of biomedical signals	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI123	Advanced biomedical signal analysis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EK202	Communication networks - introduction	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK321	IP technology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK450	Development Tools in Telecommunications and Signal Processing 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI25	Pattern recognition	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI37	Digital Image Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	BMIM2B	Biomedical statistics	(BM0) Biomedical Engineering, Master Academic Studies
11.	BMIM2C	Multivariable analysis and complexity of physiological processes	(BM0) Biomedical Engineering, Master Academic Studies
12.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Lončar-Turukalo T., Japunzic-Zigon N., Bajić D.: Temporal Sequence Parameters in Isodistributional Surrogate Data: Model and Exact Expressions, IEEE Transactions of Biomedical Engineering, 2011, Vol. 58, No 1, pp. 16-24, ISSN 0018-9294		
2.	Bošković A., Lončar-Turukalo T., Sarenac O., Japunzic-Zigon N., Bajić D.: Unbiased entropy estimates in stress: a parameter study, COMPUT BIOL MED, 2012, ISSN 0010-4825		
3.	Dragana Bajic, Tatjana Loncar Turukalo, Sonja Stojicic, Olivera Sarenac, Tijana Bojic, David Murphy, Julian Paton,; Japunzic Zigon, Nina: "Temporal Analysis of the Spontaneous Baroreceptor Reflex During Mild Emotional Stress"; Stress 2009;00;1-13; ISSN 1025-3890 print/ISSN 1607-8888 online		
4.	Dragana Bajić, Sonja Stojičić, Olivera Šarenac, Tatjana Lončar-Turukalo, Tijana Bojić, Nina Japunžić-Žigon: Temporal Analysis of Spontaneous Baroreceptor Reflex during Emotional Stress in Freely Moving Rats, 5th Conference of the European Study Group of Cardiovascular Oscillations, ESCGO, April, 2008, str. 012-5- 012-8.		
5.	Tatjana Lončar-Turukalo, Dragana Bajić, Nina Japunžić Žigon: Cardiovascular Response to Acute Stress in Freely Moving Rats: Time-Frequency Analysis, 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, august, 2008, pp. 2614- 2617.		
6.	Olivera Šarenac, Srdja Drakulić, Maja Lozić, Tatjana Lončar Turukalo, Dragana Bajić, Nina Japunžić Žigon: Temporal Analysis of the Spontaneous Baroreceptor Reflex during Acute and Chronic Shaker Stress in Freely Moving Rats, Computers in Cardiology Conference, 14-17 september, 2008, pp. 813- 816.		
7.	Damir Varga, Tatjana Lončar-Turukalo, Dragana Bajić, Sanja Milutinović, Nina Japunžić-Žigon: Joint Symbolic Dynamics of Cardiovascular Time Series of Rats, 11th Mediterranean Conference on Medical and Biological Engineering and Computing MEDICON, 26-30 June, 2007.		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Tatjana Lončar-Turukalo, Snežana Milosavljević, Olivera Šarenac, Nina Japundžić Žigon, Dragana Bajić: Entropy and Gaussianity - Measures of Deterministic Dynamics of Heart Rate and Blood Pressure Signals of Rats , Acta Polytechnica Hungarica, Journal of Applied Sciences, 2008, Vol. 5, No. 1, pp. 121- 133, ISSN 1785-8860.		
9.	Dragana Bajić, Tatjana Lončar-Turukalo, Olijandra Šibarević, "On Direct Sequential Analysis of HRV Signals", Archive of Oncology, Vol.13, No.1, January 2005		
10.	Olivera Šarenac, Srđa Drakulić, Maja Lozić, Tanja Lončar-Turukalo, Dragana Bajić, Julian FR Paton, David Murphy, Nina Japundž: Time and frequency domain analysis of the cardiovascular response to stress in conscious rats, Acta Cardiologica, 2008, Vol. 63, No. 3.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		28	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	0



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Luković S. Ivan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		18.05.1991	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1993	School of Electrical Engineering - Beograd	Applied Computer Science and Informatics
Bachelor's thesis	1990	Military-Technical Faculty - Zagreb	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E2I40	Database Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2I41	Information System Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
3.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	SE0013	Data Organization	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SE0016	Databases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
12.	E2502	Data Warehouse Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
13.	E2517	Database Management Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
14.	E2518	Software Based Business Process Modeling	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
15.	E2530	Domain Specific Modeling and Languages	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
16.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies		
17.	DRNI04	Selected Topics in Database Management	(E20) Computing and Control Engineering, Doctoral Academic Studies		
18.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies		
19.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Luković I., Ivančević V., Čeliković M., Aleksić S.: DSLs in Action with Model Based Approaches to Information System Development, in the book: Formal and Practical Aspects of Domain-Specific Languages: Recent Developments; Chapter 17., IGI Global, USA, 2013, pp. 502-532, ISBN 978-1-4666-2092-6.				
2.	Luković I.: From the Synthesis Algorithm to the Model Driven Transformations in Database Design, 10. International Scientific Conference on Informatics, Herlany: Slovak Society for Applied Cybernetics and Informatics and Technical University of Košice - Faculty of Electrical Engineering and Informatics, 23-25 Novembar, 2009, pp. 9-18, ISBN 978-80-8086-126-1. (Invited paper).				
3.	Luković I.: Application of Information System Development Tools and Methods - Some Experiences from Industry and Research Projects in Serbia, 9. International Business Informatics Conference – Symposium on Business Informatics in Central and Eastern Europe, Vienna: Austrian Computer Society and University of Vienna, 25-27 Februar, 2009, pp. 119-128, ISBN 978-3-85403-242-7. (Invited paper).				
4.	Luković I: An Approach to Specification and Generation of Software Systems using Form Types, 2nd Conference on Compilers, Related Technologies and Applications (CoRTA 2008), July 11, 2008, Braganca, Portugal, Proceedings, Polytechnic Institute of Braganca, Portugal, ISBN: 978-972-745-096-1, pp. 4. (Invited talk).				
5.	Mogin P, Luković I, Govedarica M: Principi projektovanja baza podataka, II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, 2004, ISBN: 86-80249-81-5, 700 str.				
6.	Mogin P, Luković I: Principi baza podataka, Univerzitet u Novom Sadu, Fakultet tehničkih nauka i MP "Stylos", Novi Sad, 1996, 350 str.				
7.	Obrenović N., Aleksić S., Popović A., Luković I.: Transformations of Check Constraint PIM Specifications, COMPUTING AND INFORMATICS, SLOVAK ACADEMY OF SCIENCES, ISSN 1335-9150, 2012, Vol. 31, No. 5, pp. 1045-1079.				
8.	Luković I, Mogin P, Pavičević J, Ristić S, "An Approach to Developing Complex Database Schemas Using Form Types", Software: Practice and Experience, John Wiley & Sons Inc, Hoboken, USA, ISSN: 0038-0644, DOI: 10.1002/spe.820, Vol. 37, No. 15, 2007, pp. 1621-1656.				
9.	Luković I., Pereira Varanda M., Oliveira N., Cruz D., Henriques Rangel P.: A DSL for PIM Specifications: Design and Attribute Grammar based Implementation, Computer Science and Information Systems (ComSIS), ISSN 1820-0214, 2011, Vol. 8, No 2, pp. 379-403.				

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
10.	Čeliković M., Luković I., Aleksić S., Ivančević V.: A MOF based Meta-Model and a Concrete DSL Syntax of IIS*Case PIM Concepts, Computer Science and Information Systems, ISSN 1820-0214, 2012, Vol. 9, No 3, pp. 1075-1103.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		22	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	International :
		1	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Malbaša D. Veljko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.11.1979	
Scientific or art field:		Electronics	
Academic carier	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Electronics
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E136	Introduction to Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E136d	Introduction to Digital and Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E222A	Electronics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
4.	EM401	Real-Time Microcomputer Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BMI103	Microprocessor Systems in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EM300A	Microprocessor Electronics	(H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EM305A	Digital Microcontrollers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EM404A	Computer Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI16	Microcomputer Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI24	Real Time Embedded Systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	DE100S	Selected Topics in Formal Methods of Harware Desing and Verification	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE401S	Design of Application Specific Integrated Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	SI012	Microprocessor Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	SI025	Selected Topics in Computer Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	EM508	Design and Development of Embedded Software	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	DE100	Selected Chapters in Formal Methods for Hardware Design and Verification	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
17.	DE401	ASIC Design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Mezei I., Lukić M., Malbaša V., Stojmenović I.: Auctions and iMesh Based Task Assignment in Wireless Sensor and Actuator Networks, COMPUT COMMUN, 2012, ISSN 0140-3664. rad prihvaćen za štampanje		
2.	Mezei I., Malbaša V., Stojmenović I.: Greedy Extension of Localized Auction Based Protocols for Wireless Actuator Task Assignment, Ad Hoc & Sensor Wireless Networks: An International Journal, 2012, rad prihvaćen za štampanje.		
3.	Mezei I., Malbaša V., Stojmenović I.: Robot to Robot: Communication Aspects of Coordination in Robot Wireless Networks, IEEE Robotics and Automation Magazine, 2010, Vol. 17, No 4, pp. 63-69, ISSN 1070-9932		
4.	Zoranović A., Stojanović G., Malbaša V.: Development of an MP3 player using an MP3 hardware decoder, International Journal of Electrical Engineering Education, 2010, Vol. 47, No 3, pp. 329-342, ISSN 0020-7209		
5.	Sešić A., Dautović S., Malbaša V.: Dynamic Power Management of a System with a Two-Priority Request Queue Using Probabilistic Model Checking, IEEE Trans. on CAD, 2008, 2008, Vol. 27, No 2, pp. 403-407, UDK: 10.1109/TCAD.2007.911342		
6.	Liu H., Malbaša V., Mezei I., Nayak A., Stojmenović I.: "Coordination in Sensor, Actuator and Robot Networks", In: Wireless Sensor and Actuator Networks: Algorithms and Protocols for Scalable Coordination and Data Communication, Wiley Blackwell, 2010, str. 233-262, ISBN 978-0-470-17082-3		
7.	V. Malbaša, "Mikroprocesori i mikroracunari", udžbenik, Fakultet tehničkih nauka, Novi Sad, 1992.		
8.	M. Manwaring, V. Malbaša, "An Architecture for Parallel Interpretation of Abstract Machine Languages", Facta Universitatis, Ser. Math. Inform. 17 (2002), 97-128.		
9.	V. Malbaša, M. Manwaring, "Pipelined Processor Architecture for Parallel Interpretation", Facta Universitatis, Series: Electronics and Energetics, Vol. 13, No.3, December 2000, 297-315.		
10.	V. Malbaša, "A Multimicroprocessor System for Dynamic System Simulation," Int. Journal for Computer Simulation, Vol. 56, No.1, Jan. 1991, 31-40.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		4	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	2
		International :	1

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications

Name and last name:		Malbaša V. Vuk	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.11.2012	
Scientific or art field:		Computer Science	
Academic carier	Year	Institution	Field
Academic title election:	2011	Faculty of Sciences - Novi Sad	Computer Science
PhD thesis	2011		Informatics
Bachelor's thesis	2006		Informatics and Computing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI017	Mobile computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI018	GIS in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
Representative references (minimum 5, not more than 10)			
1.	C. Zheng, V. Malbasa, M. Kezunovic: Regression Tree for Stability Margin Prediction Using Synchrophasor Measurements, IEEE Trans. Power Syst. 2012		
2.	C. Zheng, V. Malbasa, M. Kezunovic: A Fast Stability Assessment Scheme based on Classification and Regression Tree, PowerCon2012, Auckland, New Zealand, 2012		
3.	V. Malbasa, S. Vucetic: Spatially Logistic Regression for Disease Mapping on Large Moving Populations, pp. 1352, Proceedings of ACM SIGKDD 2011, San Diego, USA		
4.	V. Malbasa, D. Boscovic, M. Tosic: Predictions for Opportunistic Multi-Path Routing in Wireless Mesh Networks, Proceedings of COST Action IC 0902 Workshop, SIG 2: Learning and Artificial Intelligence 2011, Barcelona, Spain		
5.	V. Malbasa, S. Vucetic: A Reservoir Sampling Algorithm with Adaptive Estimation of Conditional Expectation, pp. 2200, Proceedings of the International Joint Conference on Neural Networks 2007, Miami, USA		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		1	
Total of SCI(SSCI) list papers :		0	
Current projects :	Domestic :	0	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:			Malbaški T. Dušan
Academic title:			Full Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			15.06.1975
Scientific or art field:			Applied Computer Science and Informatics
Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1980	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes

	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E131	Object-Oriented Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E214	Programming Languages and Data Structures	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
5.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	(koautori D.Obradović i V.Malbaša): "Analysis and Practical Considerations of an Improved Multimicroprocessor System", časopis Microprocessing and Microprogramming, North-Holland, no. 16, 1985 (naziv promenjen u Journal of Systems Architecture).
2.	(koautori J.Rekecki i dr.): "Automatic Design of the Technological Process for NC Lathes by the Use of SAPOR-S System", International Journal on Production Research, Vol. 21 No. 2, 1983.
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	(koautor D.Ivetić): "A Dichotomous Software Life Cycle Model", Journal of Applied Systems Studies, Cambridge International Science Publishing, Cambridge, England, vol. 2, No 2, 2001
5.	(koautori D.Obradović i V.Malbaša): "Multimicroprocessor Performance VS Shared Bus Efficiency", ACM European Regional Conference, Florence, Italy, 1985.<eng>
6.	(koautor D.Ivetić): "Some Notes on the Formal Definition of Streams", YUJOR, Vol.6, No. 2, 1996.
7.	(koautori M.Khlaif, D.Obradović): "A New Approach to Soft System Methodology", Automatika, Vol 30. (1989), No. 1-2.



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
Representative references (minimum 5, not more than 10)				
8.	(koautor D.Obradović): "CLAS-a Formal Aid to Data Elements Identification", časopis YUJOR, vol. 4, no. 2, 1994.			
9.	(koautor D. Ivetić) "UML? HCI = Essential Modeling", IEEE 7th INES Conference, 4-6 March, Assuit-Luxor, Egypt, 2003.			
10.	(koautori B. Markoski, P. Hotomski): " Symbolic Execution in Program Testing", International ZEMAK Symposium, Struga, Macedonia, 2002			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		0		
Total of SCI(SSCI) list papers :		2		
Current projects :		Domestic :	0	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Marčetić P. Darko	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.04.2007	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2006	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Magister thesis	1998	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E133	Power Converters	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EOS14	Laboratory from electrical machines	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
4.	EOS25	Solar and hybrid electric plants	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F203	Electrical Machines	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	HE2465	Mechatronics of Transport and Construction Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
7.	EE408A	Application of microprocessors in power engineering	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EEI310	Industrial systems and protocols	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	DE109S	Selected Chapters in Electromotive Drives	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE409S	Modern Methods of Digital Control of Drives and Converters	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE524	Methods of Regulation of Power Converters with Microconrollers	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EE534	Special Electric Motor Drives	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE537	Special Electrical Machines	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE109	Selected Chapters in Electromotive Drives	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
15.	DE409	Modern Methods of Digital Control of Drives and Converters	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Marčetić D., Adžić E.: Improved Three-Phase Current Reconstruction for Induction Motor Drives With DC-Link Shunt, IEEE Transaction on Industrial Electronics, 2010, Vol. 57, No 7, pp. 1-9, ISSN 0278-0046		
2.	Marčetić D., Vukosavic S.: Speed Sensorless AC Drives with the Rotor Time Constant Parameter Update, IEEE Transaction on Industrial Electronics, 2007, Vol. 54, No 5, pp. 2618-2625, ISSN <SPAN class=skype_pnh_		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	Marčetić D., Krcmar I., Matic P.: Discrete Rotor Flux Estimator for High Performance Induction Motor Drives with Low Sampling to Fundamental Frequency Ratio, International Review of Electrical Engineering IREE, 2012, Vol. 7, No 2, pp. 3804-3813.		
4.	Porobić V., Adžić E., Marčetić D.: High Speed Shaft Sensorless DFOC Induction Motor Drive with Field Angle Correction, International Review of Electrical Engineering IREE, 2011, Vol. 6, No 4, ISSN 1827-6660		
5.	Tomić J., Kušljević M., Marčetić D.: An Adaptive Resonator Based Method for Power Measurements According to the IEEE Trial-Use Standard 1459-2000, IEEE Transactions on Instrumentation		
6.	Vasić V., Marčetić D., Jeftenić B., Vladan J.: Speed-Sensorless Control of Induction Motor Based on Reactive Power with Rotor Time Constant Identification, IET ELECTR POWER APP, 2010, Vol. 4, No 6, ISSN 1751-8660		
7.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649		
8.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445.		
9.	Oros Đ., Vasić V., Marčetić D.: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components		
10.	Kušljević M., Tomić J., Marčetić D.: Active power measurement algorithm for power system signals under non-sinusoidal conditions and wide-range frequency deviations, IET Generation, Transmission		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		10	
Current projects :	Domestic :	1	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Maretić B. Ratko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		18.05.1993	
Scientific or art field:		Deformable Body Mechanics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	1993	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A237	Material Resistance	(A00) Architecture, Undergraduate Academic Studies
2.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	M4305	Thermomechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	M44051	Theory of Plates and Shells	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	M4501	Industrial Design	(M40) Technical Mechanics and Technical Design, Master Academic Studies
10.	M4505	Modelling of non-linear systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies
11.	DM403	Mathematical Rod Theory	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	R. Maretić, V. Glavardanov and V. Milosevic-Mitic: Transverse vibrations and stability of a heavy and heated vertical circular plate. International Journal of Structural Stability and Dynamics, 2010, 10(5), 1111-1121.		
2.	V. Glavardanov, R. Maretić and N. Grahovac: Buckling of a twisted and compressed rod supported by Cardan joints. European Journal of Mechanics A/Solids, 2009, 28, 131- 140.		
3.	V. Glavardanov and R. Maretić: Stability of a twisted and compressed clamped rod. Acta Mechanica, 2009, 202, 17-33.		
4.	R. Maretić and V. Glavardanov: Impact of mounting with an overlap on vibration and stability of a rotating annular plate. Journal of Sound and Vibration, 2008, 313, 308- 324.		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	R. Maretic, V. Glavardanov and D. Radomirovic: Asymmetric vibrations and stability of a rotating annular plate loaded by a torque. Meccanica, 2007, 42, 537- 546.		
6.	R. Maretic, 2005, "Transverse vibration and stability of an eccentric rotating circular plate", Journal of Sound and Vibration 280, 467-478.		
7.	R. B. Maretic, V. B. Glavardanov, 2004, "Stability of a Rotating Heated Circular Plate with Elastic Support", Journal of Applied Mechanics, Transactions of the ASME, 71, 897-899.		
8.	R. B. Maretic and T. M. Atanackovic, 2001, Journal of Engineering Mechanics Vol 127, 242-247, Buckling of Column with Base Attached to Elastic Half-Space.		
9.	L. Cveticanin, R. Maretic, 2000., Mechanism and Machine Theory 35, 1391-1411. Dynamic analysis of a cutting mechanism.		
10.	T.M. Atanackovic, R.B. Maretic, J.M. Milidragovic, 1999, Archive of Applied Mechanics 69, 94-104, On the stability of an elastic column positioned on an elastic half space.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		25	
Total of SCI(SSCI) list papers :		14	
Current projects :		Domestic :	1
		International :	0

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Marković -. Milan	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Science	
Academic carieer	Year	Institution	Field
Academic title election:			
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
3.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
10.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :	Domestic :		International :

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Mezei D. Ivan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.2002	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E136	Introduction to Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E136d	Introduction to Digital and Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM300A	Microprocessor Electronics	(H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM305A	Digital Microcontrollers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ETI02	Electronics and Telecommunication Development Tools 1	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
6.	ETI13	Electronics and Telecommunication Development Tools 3	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI17	Complex Digital System Design	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI24	Real Time Embedded Systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	DE400S	Complex Digital Systems and High Frequency Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE401S	Design of Application Specific Integrated Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EM502	Advanced Microprocessor Systems	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	SI025	Selected Topics in Computer Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	EM501A	Multiprocessor systems	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mezei I., Malbaša V., Stojmenović I.: Robot to Robot: Communication Aspects of Coordination in Robot Wireless Networks , IEEE Robotics and Automation Magazine, 2010, Vol. 17, No 4, pp. 63-69, ISSN 1070-9932		
2.	Liu H., Malbaša V., Mezei I., Nayak A., Stojmenović I.: "Coordination in Sensor, Actuator and Robot Networks", In: Wireless Sensor and Actuator Networks: Algorithms and Protocols for Scalable Coordination and Data Communication, Wiley Blackwell, 2010, str. 233-262, ISBN 978-0-470-17082-3		
3.	Mezei I.: Aukcijski agregacioni algoritmi za izbor izvršioca u bežičnim multihop mrežama elektronskih senzora i aktuatora, 2012		
4.	Formalna specifikacija i realizacija laboratorijskog mikroračunara na programabilnom integrisanom kolu		



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	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	Lukić M., Mezei I.: Distributed Distance Sensitive iMesh based Service Discovery in Dense WSAN, Lecture notes in computer science, 2012, No 7363, pp. 436-449, ISSN 0302-9743		
6.	Mezei I., Struharik R.: Sistem za prenos video signala baziran na korišćenju FPGA tehnologije, Tehnika - Elektrotehnika, 2010, Vol. 3, pp. 71-74, ISSN 0013-5836, UDK: 321.391.81		
7.	Daniel Mihajlović, Ivan Mezei, Miodrag Brkić, Miloš Živanov, Miloš Slankamenac: A System for Monitoring Well Logging Parameters, Advances in Electrical and Computer Engineering, 2006, Vol. 6(13), No. 1(25), str. 39- 41, ISSN 1582-7445.		
8.	Gašparović B., Mezei I.: Auction Aggregation Protocols for Agent-based Task Assignment in Multi-hop Wireless Sensor and Robot Networks, 10. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Budimpešta: IEEE/ASME, 3-7 Jul, 2011		
9.	Mezei I., Janićijević N.: Decision Making Based on Localized Auctions in Wireless Sensor Networks, 8. EUROCON, Lisabon, 27-29 April, 2011, pp. 1-4		
10.	Milan Nikolić, Veljko Malbaša, Goran Latiško, Ivan Mezei: Hardware and device driver for the Relay Assistant, rađeno za: Test Laboratories International, College Station, Texas, USA, korisnik: Razne elektroprivrede u svetu, 2001.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		9	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	International :
		1	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Mihailović P. Biljana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.03.1999	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2009	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2003	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	EOS07	Mathematics 2	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
10.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
14.	OIR009	Primenjena aktuarska matematika	(I20) Engineering Management, Specialised Professional Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M49	Aggregation Functions	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	E. Pap, B. Mihailović: A representatation of a comonotone-v-additive and monotone functional by two Sugeno integrals, Fuzzy Sets and Systems 155, (2005) 77-88		
2.	B. Mihailović, E. Pap: Sugeno integral based on absolutely monotone real set functions, Fuzzy Sets and Systems, Vol 161, Issue 22, (2010) 2857-2869		
3.	B. Mihailović, E. Pap: Asymmetric integral as a limit of generated Choquet integrals based on absolutely monotone real set functions, Fuzzy Sets and Systems 181, (2011) 39-49.		
4.	B. Mihailović, E. Pap: Asymmetric general Choquet integrals, Acta Polytechnica Hungarica, Volume 6, Issue Number 1, (2009) 161-173.		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	Kalina M., Manzi M., Mihailović B.: Choquet integrals and T-supermodularity, E. Pap (Ed.): Intelligent Systems: Models and Applications, TIEI 3, DOI: 10.1007/978-3-642-33959-2 4 c Springer-Verlag Berlin Heidelberg , (2013) 61-75.		
6.	B. Mihailović, Lj. Nedović, T. Grbić : The induced Sugeno integral-based operator w.r.t bi-fuzzy measures, Journal of Electrical Engineering, Vol.54, No. 12/s, (2003) 76-79.		
7.	B. Mihailović, E. Pap: Non-monotonic set functions and general fuzzy integrals, Proceedings of SISY 2008, Subotica, (2008) 371-374.		
8.	B. Mihailović: On the class of symmetric S-separable aggregation functions Proceedings of AGOP 2007, Ghent, Belgium, (2007) 187-191.		
9.	B. Mihailović, E. Pap: Decomposable signed fuzzy measures, Proceedings of EUSFLAT 2007, Ostrava, Czech Republic, (2007) 265-269.		
10.	B. Mihailović, M. Manzi: On the asymmetric Shilket-like integral, Proceedings of AGOP2011, Benevento, Italy, (2011) 73-77.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		10	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	International :
		2	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Mihajlović R. Dragan	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 24.09.1990	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1988	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1973	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1070	Faculty of Electrical Engineering - Sarajevo	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU54	Geoinformation Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
9.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
11.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
12.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mihajlović D., Informacioni sistemi i projektovanje baza podataka, FTN Novi Sad, 1998		
2.	Mihajlović D, Obradović D, Jedan algoritam sažimanja srpskohrvatskih reči, Informatika br 4, pp45-47, 1982		
3.	Mihajlović D, Obradović D, An evalution of textual documents indexing methods, Yujor, 1992, pp107-112.		
4.	Mihajlović D i ostali, Softversko rešenje za farmaceutske informacioni sistem, Diskobolos 97.		
5.	Mihajlović D, Kecman Ž, Farmaceutski informacioni sistem, I kongres farmaceuta Jugoslavije, Vrnjačka Banja, 1994		
6.	Mihajlović D, Izbor parova leksičkih jedinica iz poznatog rečnika za automatizovano postavljanje relacija u tezaursu		
7.	Mihajlović D, Odredjivanje vrsta reči iz srpskohrvatskog jezika primenom računara, Informatica, br 1, pp52-54, 1988		
8.	Perišić B, Obradović D, Mihajlović D, Standardizacija metodologije projektovanja informacionih sistema software-inženjerski aspekti, Standardizacija i kvalitet u informacionim tehnologijama, beograd 1995.		
9.	Mihajlović D, Nićin V, Prilog razvoju automastke obrade informacija u INDOK-delatnosti u organima uprave, Dani informatike 80, pp73-83, Novi Sad		
10.	Obradović D, Perišić B, Mihajlović D, Konjović Z, Stanje i trendovi u projektovanju informacionih sistema, IPME, Beograd, 1992		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications



Name and last name:		Milanović V. Jovica	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1996		Electrical and Computer Engineering
Magister thesis	1991		Electrical and Computer Engineering
Bachelor's thesis	1987		Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
3.	DE513	Advanced Methods of Monitoring and Management	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Jasna Dragosavac, Zarko Janda and J.V.Milanovic. Coordinated Reactive Power – Voltage Controller for Multi Machine Power Plant. IEEE Transactions on Power Systems. 2012; 27(3): 1540-1549.		
2.	J.M.Avendano-Mora and J.V.Milanovic. Monitor Placement for Reliable Estimation of Voltage Sags in Power Networks. IEEE Transactions on Power Delivery. 2012; 27(2): 936-944		
3.	F.B.Alhasawi and J.V.Milanovic. Ranking the Importance of Synchronous Generators for Integration of Wind Generation. IEEE Transactions on Power Systems. 2012 February; 27(1): 416-423		
4.	N.C.Woolley, J.V.Milanovic. Statistical Estimation of the Source and Level of Voltage Unbalance in Distribution Networks. IEEE Transactions on Power Delivery. 2012 August; 27(3): 1450-1460		
5.	F.B.Alhasawi and J.V.Milanovic. Techno-Economic Contribution of FACTS Devices to Operation of Power Systems with High Level of Wind Power Integration. IEEE Transactions on Power Systems. 2012; 27(3): 1414-1421		
6.	S.K.Yee, J.V.Milanovic and F.M.Hughes. Validated Models of Gas Turbines for Power System Dynamic Studies Based on Thermodynamic Relationships. IEEE Transactions on Power Systems. 2011; TPWRS-00411-2009		
7.	J. V. Milanovic and Y.Zhang. Goba minimisation of financial losses due to voltage sags with FACTS based devices. IEEE Transactions on Power Delivery. 2010 January; 25(1): 298-306		
8.	J. V. Milanovic and Y.Zhang. Modelling of FACTS Devices for Voltage Sag Mitigation Studies in Large Power Systems. IEEE Transactions on Power Delivery. 2010 November; 25(4): 3044-3052		
9.	M.Kayikci and J.V.Milanovic. Dynamic contribution of DFIG based wind plants to system frequency disturbances. IEEE Transactions on Power Systems. 2009 May; 24(2): 859-867		
10.	J.Y.Chan, J.V.Milanovic and A.Delahunty. Generic Failure Risk Assessment of Industrial Processes due to Voltage Sags. IEEE Transactions on Power Delivery. 2009 November; 24(4): 2405-2414		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Milanović N. Nikola	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003		Applied Computer Science and Informatics
Bachelor's thesis	1995		Applied Computer Science and Informatics
Magister thesis	-		Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	ISIT21	Internet mreže	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
3.	ISIT2D	Web design	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	SE0008	Algorithms and Data structures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	SE0016	Databases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SES102	NoSQL Data Bases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SES201	Advanced Web Technologies	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES302	High Technology Management	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	E2506	Advanced Internet Infrastructure	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	E2513	Semantic Web	(E20) Computing and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies



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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
11.	E2519	Domain-Specific Languages	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	N. Milanovic, M. Malek. Current Solutions for Web Service Composition. IEEE Internet Computing, 8(6):51-59, 2004. (SCI 11/86)		
2.	N. Milanovic, M. Malek, A. Davidson, V. Milutinovic. Routing and Security in Mobile Ad Hoc Networks. IEEE Computer, 37(2):61-65, 2004. (SCI 16/86)		
3.	N. Milanovic, M. Malek. Search Strategies for Automatic Web Service Composition. International Journal of Web Services Research, 3(2):1-32, 2006. (SCI 37/86)		
4.	N. Milanovic, B. Milic. Automatic Generation of Service Availability Models. IEEE Transactions of Service Computing, 2010. 4(1):56-69, 2011		
5.	P. Ibach, N. Milanovic, J. Richling, V. Stantchev, A. Wiesner, Malek M. CERO: CE Robots Community. IEE Proceedings Software, Special Issue on Embedded Systems, 152(5):210-214, 2005. (SCI 71/86)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>		
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Science, arts and professional qualifications

Name and last name:		Milosavljević P. Branko	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1998	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E2E40	XML and WEB Services	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2E41	E-Business Systems Security	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	F214I2	Raster Graphics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI100	Computer Practicum	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	RI41	Internet Software Architectures	(E20) Computing and Control Engineering, Undergraduate Academic Studies
7.	SEI41	Internet Software Architectures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
9.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
10.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
11.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
12.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
13.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
16.	E2506	Advanced Internet Infrastructure	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
17.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies		
18.	E2521	Business Process Management	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
19.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
20.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
21.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies		
22.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
23.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies		
24.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
25.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
26.	FDS224	Selected Chapters in Programming	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
27.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Branko Milosavljević. Models for Extensible Multimedia Document Retrieval. In IEEE 6th International Symposium on Multimedia Software Engineering, Miami, FL, 2004.				
2.	Branko Milosavljević, Milan Vidaković, Srđan Komazec, and Gordana Milosavljević. User Interface Code Generation for Data-Intensive Applications with EJB-Based Data Models. In Software Engineering Research and Practice (SERP'03), Las Vegas, NV 2003.				
3.	Branko Milosavljević and Zora Konjović. Design of an XML-Based Extensible Multimedia Information Retrieval System. In IEEE Multimedia Software Engineering (MSE2002), Newport Beach, CA, 2002. pp. 114-121.				
4.	G. Sladić, B. Milosavljević, Z. Konjović. Extensible Access Control Model for XML Document Collections, Intl. Conf. on Security and Cryptography ICETE-SECURITY'07, Barcelona, Spain, 2007.				
5.	Branko Milosavljević, Milan Vidaković, and Zora Konjović. Automatic code generation for database-oriented web applications. In James Power and John Waldron, editors, Recent Advances in Java Technology: Theory, Application, Implementation, pages 89-98. Trinity College Dublin, 2003.				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
6.	Danijela Tešendić, Branko Milosavljević, and Dušan Surla. A library circulation system for city and special libraries. The Electronic Library, 27(1):162-186, 2009. ISSN: 0264-0473, DOI: 10.1108/02640470910934669.		
7.	Jelena Radjenović, Branko Milosavljević, and Dušan Surla. Modelling and implementation of catalogue cards using FreeMarker. Program: electronic library and information systems, 43(1):62-76, 2009. ISSN: 0033-0337, DOI: 10.1108/00330330910934110.		
8.	Milan Vidaković, Branko Milosavljević, Zora Konjović, and Goran Sladić. Extensible Java EE-based agent framework and its application on distributed library catalogues. Computer Science and Information Systems (ComSIS), 6(2):1-28, 2009. ISSN: 1820-0214, DOI: 10.2298/csis0902001V.		
9.	Aleksandar Kovačević, Branko Milosavljević, Zora Konjović, and Milan Vidaković. Adaptive content-based music retrieval system. Multimedia Tools and Applications, 47(3):525-544, 2010. ISSN: 1380-7501, DOI: 10.1007/s11042-009-0336-2.		
10.	Bojana Dimić, Branko Milosavljević, and Dušan Surla. XML schema for UNIMARC and MARC 21. The Electronic Library, 28(2):245-262, 2010. ISSN: 0264-0473, DOI: 10.1108/02640471011033611.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		15	
Current projects :		Domestic :	International :
		2	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Milošević S. Vladimir	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 20.10.1976	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1984	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1980	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1976	School of Electrical Engineering - Beograd	Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK300	Digital Modulations	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK430	Fundamentals of Radio and Mobile Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	SK300	Principles of Digital Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK320	Principles of digital communications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK453	SCADA Systems Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK457	Principles of radio communication	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK461	Design of Radio Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	S1328P	Principles of digital modulations	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
10.	DE211S	Savremene tehnike prenosa digitalnih signala	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EK536	Coding Techniques	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EK541	Mobile Communications	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	SI045	Pristupne tehnologije - DSL, KDS	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	DE211	Contemporary Techniques of Digital Signal Transmission	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	V.Milošević, B.Ristić, "Effect of impulse noise rejection with median filter on binary digital receiver performance", IEE Electronic Letters, 1989, Vol.25 No.6, p.392-394		
2.	V.Šenk, V.Delić, V.Milošević, "A new speech scrambling concept based on Hadamard matrices", IEEE Signal Processing Letters, vol. 4, No. 6, june 1997, p.161-163;		
3.	S.Kostić, V.Milošević, " Analysis of Increasing HFHPTA Efficiency using Composite Signals", IEEE Transaction CAS1, 2003.		
4.	V.Milošević, S.Krčo, V.Delić, "Effect on combined impulse and gaussian noise rejection with median filter on binary digital receiver performance", "Facta Universitatis",series :Electronic and energetics, Niš 1996.; vol. 9, No. 2, p.219-227		
5.	V.Milošević, V.Crnojević, V.Radenković, V.Šenk, "PIP- a new adaptive filter for noise supression in still images", Facta Universitatis, series: Electronic and energetics, Niš 1997.; vol.10, No.1, p. 139-152		
6.	Monografija :Milorad Obradović, Vladimir Milošević i dr. "Digitalna obrada govornog signala", Novi Sad 1996. (recenzenti: Akademik prof. dr Dragoš Cvetković, prof. dr Dušan Drajić)		
7.	V.Milošević, A.Marinčić, "The influence of intersymbol interference and aditive noise on the transmission of M-ary data signal through a modelled telephone channel" IEEE Melecon" 83 Athens, 1983, Vol. I B10.2		
8.	B.Ristić, V.Milošević, "Impulse noise rejection in binary receiver using median filter", ISSPA 90, Gold Coast Australia 1990		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
9.	V.Milošević, V.D.Delić, V.Šenk, "Hadamard transform application in speech scrambling "IEEE DSP97 - 13th International conference on digital signal processing, 2-4 July 1997., Santorini Greece		
10.	V.Delić, V.Šenk, V.Milošević, "A new speech scrambling method: comparative analysis and a fast algorithm", EUSIPCO -96 VIII		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		1	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Milovančev S. Slobodan	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1975	
Scientific or art field:		Electrical Measurements	
Academic carier	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Cutting Processing Tools and Tribology
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	H210	Measurements in Technical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
3.	BM119E	Technical standards and regulations for medical devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E1411	Measurements in robotics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIMMB M	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
14.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
15.	DE305S	Electrical Measurements in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
16.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies



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<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
17.	DE305	Electrical Measurements in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	S.Milovančev, G.Pavkov, "Additional Losses in Massive Copper Conductor Due to Eddy-Currents", IEEE Power Engineering Society 2001 Winter Meeting, Columbus, Ohio, Jan-Feb. 2001.				
2.	D.Cvetinov, G.Pavkov, S.Milovančev, "Fault Location Algorithm in MV Networks with a Resistive Grounded Neutral", DistribuTECH EUROPE 2001, Berlin, Germany, November 2001.				
3.	G.Pavkov, D.Cvetinov, S.Milovančev: "The Real Value of a Grounding Grid Impedance in High Voltage Substations", IEEE Power Engineering Society T&D 2002, Sao Paulo, Brasil, March 2002.				
4.	G.Pavkov, S.Milovančev, D.Cvetinov: "An Analitical Evaluation of Current Distribution Over Grounding Conductor", IEEE GROUND "2002 and 3th WAE", Rio de Janeiro, Brasil, November 2002.				
5.	S.S.Milovančev, V.V.Vujičić, V.A.Katić: "Improvements of On-Line Measurement in Distribution System Using a New Adding A/D Converter", IEEE T Power Delivery, Vol. 10, No. 4, pp. 1750-1756, October 1995.				
6.	I.Župunski, L.Hodolić, V.Vujučić, S.Milovančev: "Power Factor Calibrator", IEEE Trans. Instrumentation and Measurement, vol. IM-46, No. 2, pp. 408-411, April 1997.				
7.	V.Vujičić, I.Župunski, S.Milovančev: "Predetermination of the Quantization Error in Digital Measurement Systems", IEEE Trans. Instrum.Meas., vol. IM-46, No. 2, pp. 439-441, April 1997.				
8.	V.Vujičić, S.Milovančev, M.Pešaljević, D.Pejić, I.Župunski: "Low Frequency Stochastic True RMS Instrument", IEEE Trans.Instrum.Meas., vol. 48, No.2, pp. 467-470, April 1999.				
9.	S. Milovančev, V. Vujičić, V. Katić, D. Dapčević: "Monitoring of PWM Regulated Drives - An Accuracy Improvement", International Conference on Electrical Drives and Power Electronics - EDPE'94, Stara Lesna-High Tatras (Slovakia), Oct.1994, pp.502-506.				
10.	V. Vujičić, S. Milovančev, I. Župunski, D. Pejić: "Proposal of a new measurement technology", 3rd International Symposium Interdisciplinary Regional Research (Hungary, Romania, Yugoslavia), pp. 95-97. Part I, September 1997.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			8		
Total of SCI(SSCI) list papers :			4		
Current projects :			Domestic :	1	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications

Name and last name:		Mirović Đ. Ivana	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.04.1990	
Scientific or art field:		English	
Academic carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	1984	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJE11	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJE12	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies		
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		



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FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
Study Programme Accreditation			
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
38.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
39.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
40.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
41.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Prevod monografije: Nenad Teofanov: Ultramodulation Spaces and Pseudodifferential Operators, Zadužbina Andrejević		
2.	Prevod publikacije o Fakultetu tehničkih nauka, Faculty of Technical Sciences, 2004		
3.	Vesna Bogdanović i Ivana Mirović: Engleski jezik 1 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2007		
4.	Ivana Mirović i Vesna Bogdanović: Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2011		
5.	I. Mirović, V. Bogdanović, B. Ličen: Istorijat nastave stručnog engleskog jezika na FTN u Novom Sadu. međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008		
6.	V. Bogdanović, I. Mirović, B. Ličen: Kreiranje udžbenika za engleski jezik za studente različitog predznanja, međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008		
7.	I. Mirović, B. Ličen, V. Bogdanović: Summarization skills of engineering students reading in a second language, Language for Specific Purposes. Challenges and Prospects. Belgrade. 2011		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Mirović I, Gak D., Bogdavić V.: Trust me - I'm an engineer or: Why we should challenge our students with demanding tasks, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012		
9.	Gak D, Bogdanović V, Mirović I, : Questionnaire - an instrument for collecting valuable data from teachers of business English courses, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 0 International : 0 </div>

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Mitrović Lj. Zoran	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		20.04.1994	
Scientific or art field:		Electrical Measurements	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1992	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1984	School of Electrical Engineering - Beograd	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E1411	Measurements in robotics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EZ302	Measurement systems in clean power sources	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
12.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
13.	DE504S	Contemporary Measuring Systems Design	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies


		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
16.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
17.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
18.	DE504	Contemporary Measuring Systems Design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Antić B., Mitrović Z., Vujičić V.: Method for Harmonic Measurement of Real Power Grid Signals with Frequency Drift using Instruments with Internally Generated Reference Frequency, Measurement Science Review, 2012, Vol. 12, No 6, pp. 277-285, ISSN 1335-8871				
2.	Zoran Mitrović: "A Phase Angle Standard", Measurement Science and Technology No. 15. Institute of Physics , January 2004, 559-564.				
3.	Mitrović Z., Milovančev S., Župunski I.: A Precision Power Amplifier for Calibration Systems, Measurement Science and Technology, 2009, Vol. 20, No 6, pp. 1-3				
4.	Santrač B., Sokola M., Mitrović Z., Župunski I., Vujičić V.: A Novel Method for Stochastic Measurement of Harmonics at Low Signal-to-Noise Ratio, IEEE Transactions on Instrumentation and Measurement, 2009, Vol. 58, No 10, pp. 3434-3441, ISSN 0018-9456				
5.	Trkuljić N., Babić Z., Marković R., Peruničić G., Sarić M., Spasić Jokić V., Mitrović Z.: Implementation of the Modern PACS System at the Institute of Oncology and Radiology of Serbia, Medical Data, 2011, No 1, pp. 69-72, ISSN 1821-1585, UDK: 616-07:621.39(497.11)				
6.	Mitrović Z., Spasić Jokić V.: Introduction in Picture Archiving and Communication System (PACS) in Medicine: DICOM (Digital Imaging and Communications in Medicine) , Medical Data, 2010, No 2, pp. 123-126, ISSN 1821-1585, UDK: 61:004				
7.	Zoran Mitrović, Ivan Župunski: "Stable Source of AC Voltage and Current", IMTC Conference, Como, Italy, 2004.				
8.	Nagy K., Vujičić V., Mitrović Z., Takacs M.: Fuzzyfication and measurement using stochastic approach, 7. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 25-26 Septembar, 2009, pp. 47-49, ISBN 978-1-4244-1442-0				
9.	Zoran Mitrović: "Prilog razvoju etalona faznog ugla", doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 1985.				
10.	P. Miljanić Z. Mitrović, I. Župunski, V. Vujičić: "Ka novom etalonu naizmeničnog napona, struje, električne snage i energije i faktora snage - rezultati ispitivanja", Kongres metrologa 2003, Beograd, Plenarni rad po pozivu				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			0		
Total of SCI(SSCI) list papers :			4		
Current projects :			Domestic :	3	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering	
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Science, arts and professional qualifications



Name and last name:		Nađ F. Laslo	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.05.1977	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	1983	Faculty of Electronic Engineering - Niš	Electronics
Bachelor's thesis	1977	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM304	Impulse and Digital Electronic Circuits	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
3.	EM440	Computer-Aided Electronic Circuit Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	H305	Analogue Electronics	(H00) Mechatronics, Undergraduate Academic Studies
5.	H309	Impuls Electronics	(H00) Mechatronics, Undergraduate Academic Studies
6.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI99	Electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E138A	Digital Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EM301A	Analog Microelectronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	DE400S	Complex Digital Systems and High Frequency Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE501S	Selected Chapters in Pulse and Analogue Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	EM530	Selected Chapters in Impulse Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	SI032	Selected Chapters in Mechatronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	BMIM1B	EMI and EMC in medicine equipment	(BM0) Biomedical Engineering, Master Academic Studies
17.	EM406A	High-Frequency Digital Systems and Circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	DE400	Complex Digital Systems and High Frequency Circuits	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
19.	DE501	Selected Chapters in Pulse and Analogue Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Radosavljević G., Živanov Lj., Smetana W., Marić A., Unger M., Nađ L.: A Wireless Embedded Resonant Pressure Sensor Fabricated in the Standard LTCC Technology, IEEE Sensor Journal, 2009, Vol. 9, No 12, pp. 1956-1962, ISSN 1530-437X		
2.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac, "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11 (2001), pp.869-897.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	Damjanović M., Živanov Lj., Nađ L., Đurić S., Biberdžić B.: A Novel Approach to Extending the Linearity Range of Displacement Inductive Sensor , IEEE Transactions on Magnetics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464		
4.	Nađ L., Radić J., Đugova A., Videnović-Mišić M.: Ultra Low-Power Low-Complexity Tunable 3-10 GHz IR-UWB Pulse Generator, Informacije MIDEM - Journal of microelectronics, electronic components and materials, 2012, Vol. 3, ISSN 0352-9045		
5.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362		
6.	Radić J., Đugova A., Nađ L., Videnović-Mišić M.: Feedback Influence on Performance of Ring Oscillator for IR-UWB Pulse Generator in 0.18µm CMOS technology, 28. International Conference on Microelectronics – MIEL, Niš: IEEE, 13-16 Maj, 2012, pp. 357-360, ISBN 978-1-4673-0235-7 , UDK: 10.1109/MIEL.2012.6222873		
7.	Nađ L., Babković K., Krklješ D., Borovac B.: Elastic Foot Contact Force Sensor System — Pendulum Application Example, 14. International Power Electronics and Motion Control Conference EPE-PEMC, Ohrid, 6-9 Septembar, 2010, pp. 38-38, ISBN 978-1-4244-7856-9		
8.	Babković K., Nađ L., Krklješ D.: Optical Sensor for Vibration Monitoring with Automatic Operating Point Adjustment, 28. International Conference on Microelectronics – MIEL, Niš, 13-16 Maj, 2012, pp. 189-192, ISBN 978-1-4673-0235-7		
9.	Radić J., Đugova A., Nađ L., Videnović-Mišić M.: Body Bias Influence on Ring Oscillator Performance for IR-UWB Pulse Generator in 0.18µm CMOS technology , 47. International Scientific Conference on Information, Communication and Energy Systems and Technologies - ICEST, Veliko Trnovo, 28-30 Jun, 2012, pp. 82-85		
10.	Krklješ D., Babković K., Nađ L.: Specific Conductance Characteristic of Force Sensing Resistor (FSR) with Custom Made Single-gap Conductive Contacts, 2. ICMAS-International Conference on Materials and Applications for Sensors and Transducers, Budapest, 24-28 Maj, 2012		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		6	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	International :
		3	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Nimrihter D. Miroslav	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.06.1976	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2009		Electroenergetics
PhD thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1984	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE409	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE413	Power System Reliability	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	DE106S	Reliability of Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE112S	Non-deterministic Modelling	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EE560	Planiranje elektroenergetskih sistema	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE409M	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	EM435A	Electronic Systems in Oil Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EM437A	The application of electronic systems in clean and renewable energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	ESI022	Quality control and assurance of electric power software	(ES0) Power Software Engineering, Master Academic Studies
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies
16.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
17.	ESI031	Business Intelligence and Data Warehouse Systems in Power Systems	(ES0) Power Software Engineering, Master Academic Studies
18.	ESI035	Computer graphic algorithms for smart grid systems	(ES0) Power Software Engineering, Master Academic Studies
19.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
20.	DE106	Reliability of Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DE112	Non-deterministic Modelling	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			


	UNIVERSITY OF NOVI SAD			
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering		
Representative references (minimum 5, not more than 10)				
1.	Gušavac S., Nimrihter M., Gerić Lj.: ESTIMATION OF OVERHEAD LINE CONDITION, , Electric Power System Research, 2008, Vol. 78, pp. 566-583			
2.	Desnica V., Živanov Lj., Aleksić S., Nimrihter M.: Comparative Characteristics of Thick-Film Integrated LC Filters, IEEE Transactions on Instrumentation and Measurement, 2002, Vol. 51, No 4, pp. 570-576, ISSN 0018-9456			
3.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Meddium Voltage Cable Distribution Networks, Electric Power System Research, 1994, No 29, pp. 43-50, ISSN 0378-7796			
4.	Popović D., Glamočić Lj., Nimrihter M.: The Optimal Automation Level of Medium Voltage Distribution Networks, International Journal of Electrical Power			
5.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Medium Voltage Cable Distribution Networks, Electric Power Research, 1994, No 29, pp. 43-50			
6.	Nimrihter M., Živanov M., Gušavac S.: FUEL CELLS – ECOLOGICAL COGENERATIVE ENERGY SOURCES, 9th INTERNATIONAL SYMPOSIUM INTERDISCIPLINARY REGIONAL RESEARCH – ISIRR 2007, , Novi Sad, 21-22 Jun, 2007			
7.	*****Živanov M., Nimrihter M., Živanov Lj.: Energetska efikasnost sistema sa gorivnim ćelijama Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: UDC 621.311.29.001.5/.004:620.92			
8.	*****Živanov M., Nimrihter M., Živanov Lj.: Efekti primene gorivnih ćelija Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: 621.311.29.001.5/.004:620.92			
9.	*****Nimrihter M., Gušavac S., Lukić J., Kuljić R.: Uticaj distribuiranih generatora na rizik u SN DEM, edukativni softver za potrebe CEFES magistarski studija Naziv skupa: 14th International Symposium on Power Electronics - Ee 2007 , UDK: 621.38; 620.9(082)			
10.	*****Nimrihter M., Gušavac S., Lukić J.: Uticaj distribuiranih protočnih elektrana na rizik napajanja potrošača Naziv skupa: 14. International Symposium on Power Electronics-Ee2007 , UDK: 621.38; 620.9(082)			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		22		
Total of SCI(SSCI) list papers :		5		
Current projects :		Domestic :	3	International : 12

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
--	---	--

Science, arts and professional qualifications

Name and last name:			Novak O. Ladislav
Academic title:			Full Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			01.09.1976
Scientific or art field:			Electronics
Academic carieer	Year	Institution	Field
Academic title election:	1994	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1982	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1978	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E128F	Electrical Circuit Theory	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	e141	Systems and Signals	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM402	Algorithms and Complexity	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	E128A	Electrical Circuit Theory	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM302A	Discrete-time systems and signals	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EM420A	Modelling and simulation of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	DE200S	Algorithms and Complexity-an Advanced Course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE300S	Randomised Approximation Algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	EM518A	Advanced simulation techniques of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	DE200	Algorithms and Complexity-an Advanced Course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
11.	DE300	Randomised Approximation Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Novak L., Gibbons A.: Hybrid Graph Theory and Network Analysis, Cambridge Univerity Press, Series: Cambridge Tracts in Theoretical Computer Science (No. 49), 1999, str. 1-188, ISBN 0521461170		
2.	Juhas A., Novak L.: Comments on "Class-E, Class-C, and Class-F power amplifier based upon a finite number of harmonics", IEEE Transactions on Microwave Theory and Technique, 2009, Vol. 57, No 6, pp. 1623-1625, ISSN 0018-9840		
3.	Struharik R., Novak L.: Intellectual property core implementation of decision trees, IET Computers and Digital Techniques, 2009, Vol. 3, No 3, pp. 259-269, ISSN pp.1751 - 8601		
4.	Struharik R., Novak L.: Evolving Decision Trees in Hardware, Journal of Circuits Systems and Computers, 2009, Vol. 18, No 6, pp. 1033-1060, ISSN 0218-1266		
5.	Dautović S., Novak L.: A Comment on "Boolean Functions Classification via Fixed Polarity Reed-Muller Form" , IEEE Trans. on Computers, 2006, Vol. 55, No 8, pp. 1067-1069		
6.	Novak L.: On Goetschel and Voxman fuzzy matroid , Fuzzy Sets and Systems, 2001, Vol. 117, pp. 407-412		
7.	Kostić S., Novak L., Juhas A.: Increasing efficiency and output power of HFHPTA by injection of two harmonics, IEEE Transaction on Broadcasting, 2001, Vol. 47, No 1, pp. 32-37		
8.	Juhas A., Novak L., Kostić S.: Signals with Flattened Extrema in Balance Power Analysis of HFHPTA: Theory and Applications, IEEE Transaction on Broadcasting, 2001, Vol. 47, No 1, pp. 38-45		
9.	Kostić S., Novak L.: General balance power analysis of HFHPTA with (M,N)-composite signals, IEEE Transaction on Broadcasting, 1998, Vol. 44, No 4, pp. 547-552		
10.	Novak L.: On Fuzzy Independence Set Systems, Fuzzy Sets and Systems, Elsevier, 1997, Vol. 91, No 2, pp. 365-374		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			23
Total of SCI(SSCI) list papers :			17

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES</p> <p>Power, Electronic and Telecommunication Engineering</p>				
Current projects :	Domestic :	0	International :	3	

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Okanović Đ. Dušan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.2004	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ISIT23	Web Programming	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
3.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	ISIT34	Identity Management	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT43	Configuration and Administration of Computer Systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	ISIT45	eTrade and eBanking technologies and systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
11.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
12.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Okanović D., van Hoorn A., Konjović Z., Vidaković M.: SLA-Driven Adaptive Monitoring of Distributed Applications for Performance Problem Localization, Computer Science and Information Systems (ComSIS), 2012, ISSN 1820-0214		
2.	Dušan Okanović, Zora Konjović, Automatska inicijalizacija klasa iz XML datoteke, Zbornik radova YU INFO 2005 (CD), Kopaonik 2005.		
3.	Dušan Okanović, Milan Vidaković, Upotreba JMX MLet servisa za ažuriranje verzija Java aplikacija, Zbornik radova YU INFO 2007 (CD), Kopaonik 2007.		
4.	Đorđe Obradović, Milan Vidaković, Zora Konjović, Dušan Okanović, "Generator ekranskih formi za JBoss Seam bazirane aplikacije", Zbornik radova YU INFO 2008 (CD), Kopaonik 2008.		
5.	Dušan Okanović, Milan Vidaković, "Primena jBPM okruženja u implementaciji eUprave", Zbornik radova YU INFO 2009 (CD), Kopaonik 2009.		
6.	Valentin Penca, Siniša Nikolić, Dušan Okanović, "Detekcija Skype saobraćaja sistemom za detekciju upada u mrežu Snort", Zbornik radova YU INFO 2009 (CD), Kopaonik 2009.		
7.	Okanović D., Vidaković M.: Software Performance Prediction Using Linear Regression, 2. International Conference on Information Society Technology and Management, Kopaonik, 29 mart-3 februar, 2012		
8.	Okanović D., van Hoorn A., Konjović Z., Vidaković M.: Towards Adaptive Monitoring of Java EE Applications, 5. International Conference on Information Technology - ICIT, Amman, 11-13 Maj, 2011, ISBN 9957-8583-0-0		
9.	Okanović D., Konjović Z., Vidaković M.: Continuous Monitoring System for Software Quality Assurance, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad, 14-16 Septembar, 2011		
10.	Okanović D., Vidaković M.: One Implementation of The System for Application Version Tracking and Automatic Updating, Proceedings of the IASTED International Conference on Software Engineering - SE 2007, Innsbruck, 12-14 februar 2008.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Oros V. Đura	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 05.11.1982	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1997	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1982	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H361	Control of Electrical Drives	(H00) Mechatronics, Undergraduate Academic Studies
2.	M109	Electric Machines and Power Electronics	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	E2315	Electrical Machines in Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE419A	Testing of electrical machines	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EE421A	Electrical Design and Calculation Software	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ZR405A	Protection from the harmful effects of electricity in the application of power converters	(Z01) Safety at Work, Undergraduate Academic Studies
8.	ZR43A	Health and safety regulations in electrical systems	(Z01) Safety at Work, Undergraduate Academic Studies
9.	EE534	Special Electric Motor Drives	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	M2541	Occupational Safety and Protection in Operation with Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
11.	GS016	Lighting in Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
12.	ZRD235	Systemic regulation in the field of occupational safety and health	(Z01) Safety at Work, Doctoral Academic Studies
13.	ZRD236	State and development of health and safety at work in the field of electrical engineering	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649		
2.	Đura V. Oros, Veran V. Vasić, Darko P. Marčetić: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components and Systems, 2008, Vol. 36, No. 12, str. 1318- 1336, ISSN 1532-5008.		
3.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445		
4.	Reljić D., Vasić V., Oros Đ.: Power factor correction and harmonics mitigation based on phase shifting approach, 15. International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia, pp. DS3b.12-1 - 12-8, ISBN: 978-1-4673-1971-3, IEEE catalog number CFP 1234A-USB		
5.	Dumnić B., Oros Đ., Milićević D., Matić D., Vasić V.: Vector Control of Induction Generator with Parallel Stator Resistance and Rotor Speed Estimation, 31. Power Electronics, Intelligent Motion, Power Quality PCIM, Nuremberg: Mesago PCIM GmbH, 4-6 Maj, 2010, pp. 608-612, ISBN 978-3-8007-3229-6		
6.	Vasić V., Marčetić D., Oros Đ., Kulić F.: Prediction of local instabilities caused by inverter dead time in AC drive, 13. European Conference on Power Electronics and Applications, Barselona, 8-10 Septembar, 2009, ISBN 9789075815009		
7.	Francuski Lj., Kulić F., Dumnić B., Oros Đ.: Fuzzy PI Controller for Vector Control of Induction Machine, 9. NEUREL- Symposium on Neural Network Applications in Electrical Engineering, Beograd: IEEE SCG Section, CAS - SP Chair, 25-27 Septembar, 2008, pp. 207-210, ISBN 978-1-4244-2903-5		
8.	Reljić D., Vasić V., Oros Đ.: Power Quality Considerations of Variable Speed AC Drives, A Simulation Study, Paper No. T6-2.4, pp. 1-5,, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5		
9.	Reljić D., Milićević D., Adžić E., Dumnić B., Grabić S., Porobić V., Vekić M., Ivanović Z., Katić V., Vasić V., Marčetić D., Oros Đ., Čorba Z.: Modern Laboratory Tools for Experimental Research in the Field of Electric Drives, 15. International Symposium on Power Electronics Ee, Novi Sad: Društvo za energetska elektroniku-Novu Sad, Elektrotehnički institut "Nikola Tesla"-Beograd, Fakultet tehničkih nauka-Novu Sad, 28-30 Oktobar, 2009, pp. 1-5, ISBN 978-86-7892-208-4		
10.	Ostojić D., Vasić V., Dujić D., Oros Đ.: The Influence of Parameter Mismatch on Natural Field Orientation Controlled Induction Motor Speed Estimation, 1. International Conference on Power Electronics and Intelligent Control for EnergyConservation, Varšava, 6-19 Oktobar, 2005		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		3	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Pantović B. Jovanka	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		13.06.1993	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2010		Mathematics
PhD thesis	2000	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1996	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1991	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E145	Operations Research	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	GI101	Algebra	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	H203	Mathematics 3	(H00) Mechatronics, Undergraduate Academic Studies
6.	IAM002	Discrete and Combinatorial Methods for Computer Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	S053N	Operations research	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	OM512	Models of Computation	(OM1) Mathematics in Engineering, Master Academic Studies
9.	OML512	Models of Computation	(OM1) Mathematics in Engineering, Master Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
11.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	D0M13	Theory of Mobile Processes	(OM1) Mathematics in Engineering, Doctoral Academic Studies
13.	D0M14	Process Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M22	Multiple-Valued Logic	(OM1) Mathematics in Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	D0M23	Clone Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
17.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies		
18.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Gilezan S., Pantović J., Žunić J.: Partitioning Finite d-Dimensional Integer Grids with Applications, chapter in: Approximation Algorithms and Metaheuristics (editor: T. F. Gonzalez)., Chapman				
2.	Ghilezan S., Pantović J., Žunić J., Separating points by parallel hyperplanes - characterization problem, IEEE Transactions on Neural Networks, 2007, Vol. 18, No. 5, 1356-1363.				
3.	Mariangiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantovic, Daniele Varacca: Security types for dynamic web data. Theor. Comput. Sci, 2008, 402(2-3): 156-171				
4.	Pantović J., Vojvodić D., On the cardinality of nonfinitely based functionally complete algebras, Algebra Universalis, Vol. 43, No. 4, 2000, 369-374.				
5.	Pantović J., Tošić R., Vojvodić G., The cardinality of functionally complete algebras on a three element set, Algebra Universalis, Vol. 38, No.2, 1997, 136-140.				
6.	Pantović J., Machida H., Rosenberg I.: Regular sets of operations, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 19, No 1-3, pp. 149-162, ISSN 1542-3980				
7.	Machida H., Pantović J.: Three classes of maximal hyperclones, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 18, No 2, pp. 201-210, ISSN 1542-3980				
8.	Pantović J., Machida H.: Maximal hyperclones on E2 as hypercores , Journal of Multiple Valued Logic and Soft Computing, 2009, pp. 1-13, ISSN 1542-3980				
9.	Pantović J., Tošić R., Vojvodić G., Relative completeness with respect to two unary functions, Discrete Applied Mathematics, Vol.113 (2-3), 2001, 337-342.				
10.	Marinagiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantović, Security types for dynamic web data, Proceedings of Trustworthy Global Computing, Lecture Notes in Computer Science, 2007, Vol. 4661, str. 263-280.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			30		
Total of SCI(SSCI) list papers :			13		
Current projects :			Domestic :	2	International : 3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Pap I. Ištvan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carieer	Year	Institution	Field
Academic title election:	2010		Computer Engineering and Computer Communication
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2008		Computer Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	RT43	Engineering of Computer Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
2.	RT52A	Dedicated Computer Structure Design 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	RT52B	Dedicated Computer Structure Design for Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	SE1006	Object Oriented Programming 2	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SERT03	Embedded system design 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT59	Real-Time System Design	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT10	Selected chapters of embedded computer based systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Pap I., Lukić N., Marčeta Z., Teslić N., Schu M.: Real-time video quality assessment platform, 27. International Conference on Consumer Electronics, Las Vegas: IEEE Consumer Electronics Society, , pp. 1-2, ISBN 978-1-4244-4701-5, UDK: 10.1109/ICCE.2009.5012206		
2.	Mrázovac B., Bjelica M., Pap I., Teslić N.: Smart audio/video playback control based on presence detection and user localization in home environment		
3.	Mrázovac B., Bjelica M., Teslić N., Pap I.: Towards Ubiquitous Smart Outlets for Safety and Energetic Efficiency of Home Electric Appliances, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronic Society, 6-8 Oktobar, 2011, pp. 324-328, UDK: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6031795		
4.	Pap I., Šarić Z., Vukosavljev S., Teslić N., Temerinac M.: Hands-free Voice Communication Platform Integrated With TV, 27. International Conference on Consumer Electronics, Las Vegas: IEEE Consumer Electronics Society, , pp. 1-2, ISBN 978-1-4244-4701-5, UDK: 10.1109/ICCE.2009.5012265		
5.	Pap I., Šarić Z., Teslić N.: Hands-free Voice Communication with TV, IEEE Transactions on Consumer Electronics, 2011, Vol. 57, No 2, pp. 606-614, ISSN 0098-3063, UDK: doi: 10.1109/TCE.2011.5955198		

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>		
<h2 style="margin: 0;">Study Programme Accreditation</h2>			
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>	
<p>Representative references (minimum 5, not more than 10)</p>			
6.	<p>Pap I., Šarić Z., Jovičić S., Teslić N.: Adaptive microphone array for unknown desired speaker's transfer function, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 2007, Vol. 122, No 2, pp. 44-49, ISSN 10.1121/1.2749077, UDK: http://dx.doi.org/10.1121/1.2749077</p>		
7.	<p>Pap I., Šarić Z., Pal S., Velikić I.: Hands-free VoIP solution for embedded platforms in consumer electronics, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 22-25, ISBN 978-1-4577-0233-4, UDK: 10.1109/ICCE-Berlin.2011.6031822</p>		
8.	<p>Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: A Full-Duplex Hands-Free Videophone Add-on Device for Digital Television Sets, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 382-385, ISBN 978-1-4577-0232-7, UDK: http://dx.doi.org/10.1109/ICCE-Berlin.2011.6031817</p>		
9.	<p>Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: An Integrated Audio and Video Communication System for Digital Television Sets, 2. IEEE Eastern European Conference on the Engineering of Computer Based Systems, Bratislava: IEEE Computer Society, 5-6 Septembar, 2011, pp. 78-84, ISBN 978-0-7695-4418-2, UDK: http://dx.doi.org/10.1109/ECBS-EERC.2011.20</p>		
10.	<p>Bjelica M., Pap I., Teslić N., Coulon J.: Set-top box-based home controller, 14. IEEE International Symposium on Consumer Electronics (ISCE2010), Braunschweig: IEEE Consumer Electronics Society, 7-10 Jun, 2010, pp. 1-6, ISBN 978-1-4244-6672-6/10, UDK: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5523704</p>		
<p>Summary data for teacher's scientific or art and professional activity:</p>			
<p>Quotation total :</p>		<p>0</p>	
<p>Total of SCI(SSCI) list papers :</p>		<p>2</p>	
<p>Current projects :</p>		<p>Domestic :</p>	<p>0 International : 0</p>

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications


Name and last name:		Pavlović J. Slobodan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Philosophy - Novi Sad 01.10.1993	
Scientific or art field:		Philology	
Academic carier	Year	Institution	Field
Academic title election:	2011		Philology
PhD thesis	2005	Faculty of Philosophy - Novi Sad	Philology
Magister thesis	1997	Faculty of Philosophy - Novi Sad	Serbian
Bachelor's thesis	1993	Faculty of Philosophy - Novi Sad	Serbian
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E1270	Academic Written and Spoken Communication in the Serbian Language	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
Representative references (minimum 5, not more than 10)			
1.	S. Pavlović, "Žanrovi starosrpskog poslovnopravnog stila", Naučni sastanak slavista u Vukove dane, 32/1, Beograd 2004, 223 234.		
2.	S. Pavlović, "Sistemi podsticaj za konektivnu unifikaciju asertivnosti i voluntativnosti u starosrpskom jeziku", Zora, 44, Maribor 2006, 181 190.		
3.	S. Pavlović, "Kondicionalna klauza u starosrpskoj poslovnopravnoj pismenosti", Južnoslovenski filolog, LXII, Beograd 2006, 113 138.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Pejić V. Dragan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1995	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Electrical Measurements
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1993	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E140	Measuring in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
11.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Pejić D., Vujičić V.: Accuracy Limit of High-Precision Stochastic Watt-Hour Meter, IEEE Transaction on Instrumentation and Measurement, 2000, Vol. 49, No 3, pp. 617-620		
2.	Vujičić V., Milovančev S., Pešaljević M., Pejić D., Župunski I.: Low Frequency Stochastic True RMS Instrument, IEEE Transaction on Instrumentation and Measurement, 1999, Vol. 48, No 2, pp. 467-470		
3.	Antić B., Pejić D.: A Measuring System for Supervision of the Rail Welding Machine PRSM-4 No. 083, Journal of Automatic Control, 2006, Vol. 16, No 1, pp. 9-12, UDK: 621.3-52		
4.	Pejić D.: Stohastičko merenje električne snage i energije, Novi Sad, FTN, 2010		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	D. Pejić, P. Sovilj, M. Urekar, V. Vujičić, Lj. Župunski, Uticaj zajedničkog napona na merenje biomedicinskog p300 potencijala, Zbornik radova 56. konferencije za ETRAN, Zlatibor, 11. – 14.6. 2012, pp. ML1.9-1-4, ISBN 978-86-80509-67-9		
6.	Pejić D., Urekar M., Vujičić V., Avramov-Zamurović S.: Comparator offset error supression in stochastic converters used in a Watt-Hour Meter, 1. Conference on Precision Electromagnetic Measurements - CPEM 2010, Daejeon, 13-18 Jun, 2010, pp. 235-236, ISBN 978-1-4244-6794-5		
7.	Pejić D., Urekar M., Crnojakić M., Župunski I., Vujičić V.: ETALONSKO BROJILLO ELEKTRIČNE ENERGIJE, 4. Kongres metrologa, Zlatibor: Kongres metrologa, 24-26 Septembar, 2007		
8.	Antić B., Pejić D.: Merni sistem za nadzor mašine za zavarivanje šina PRSM-4 br.083, 50. ETRAN, Beograd, 6-9 Jun, 2006		
9.	Pejić D.: Višekanalno merenje faktora izobličenja, Novi Sad, 1997		
10.	Mitrović Z., Pejić D., Župunski I., Urekar M., Milovančev S., Vujičić V.: Metoda merenja aktivne snage u složenoperiodičnom režimu, 2011		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering	
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Science, arts and professional qualifications



Name and last name:		Pekarić-Nadž M. Neda	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.07.1978	
Scientific or art field:		Theoretical Electrotechnics	
Academic carieer	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	1984	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	I087	Electrical Engineering in Industrial Engineering	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	II1007	Fundamental electrical engineering	(I10) Industrial Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
8.	URZP12	Introduction to electrical engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE408S	Selected chapters inl electromagnetics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	URZP55	Fire and Explosion Protection due to Electricity	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
12.	DE208	Selected Chapters on Electromagnetic Compatibility	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE408	Selected Chapters in Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Neda Pekarić-Nadž, Vera Bajović, "Izbor rešenih problema iz Osnova elektrotehnike", Gradjevinska knjiga, Beograd, 2007		
2.	Neda Pekarić-Nadž, Dejana Herceg, "Osnovi elektrotehnike za studente Računarskog odseka" edicija FTN, Novi Sad, 2005		
3.	Nikolajević S, Pekarić-Nadž N, Dimitrijević R, "Optimization of cable terminations", IEEE Trans. PWRD, Vol.12, No 2, 1997 p.p. 527-532		
4.	Nikolajević S, Pekarić-Nadž N, Dimitrijević R, "A new concept in construction of cable terminations for medium voltages", IEEE Trans. Power Delivery, Volume 13, No. 3, July 1998, p.p. 712-718		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>			
Representative references (minimum 5, not more than 10)				
5.	Šećerov Sokolović R., Sokolović S., Mihajlović Đ., Gelei T., Pekarić Nađ N., Šević S.: Effect of pulsed electromagnetic field on crude oil rheology, Industrial and Engineering Chemistry Research, 1998, Vol. 37, No 12, pp 4828-4834, ISSN 0888-5885			
6.	Buranj N., Milutinov M., Pekarić Nađ N.: Uređaj za izlaganje malih tečnih uzoraka magnetskom polju, 2011			
7.	Juhas A., Pekarić Nađ N., Herceg D.: Estimation of Human Exposure to Combined RF EM Field of Multiple Antennas, 5. International PhD Seminar on Computational Electromagnetics and Optimization in Electrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 Septembar, 2010, pp. 27-31, ISBN 978-954-438-856-0			
8.	Herceg D., Pekarić Nađ N., Juhas A.: Shield shape influence on a coreless probe inductance, 5. International PhD Seminar on Computational Electromagnetics and Optimization in Electrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 Septembar, 2010, pp. 18-21, ISBN 978-954-438-856-0			
9.	Milutinov M., Juhas A., Pekarić Nađ N.: Power line currents data extraction from magnetic field measurements, 17. International Symposium on Electrical Apparatus and Technologies – SIELA, Bourgas, 28-30 Maj, 2012, pp. 226-231, ISBN 1314-6297			
10.	Dimitrijević R., Tasić D., Raičević N., Aleksić S., Pekarić Nađ N.: Analysis of a MV XLPE Cable Termination Design with Embedded Electrodes, Facta universitatis - series: Electronics and Energetics, 2010, Vol. 23, No 1, pp. 99-117, ISSN 0353-3670			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	16			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Petrovački Lj. Nebojša	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Automatic Control and System Engineering	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2005	University of California, Los Angeles - Los Angeles	Automatic Control and System Engineering
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E238A	Control Systems Technology	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EMSAU ₁	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
9.	AU509	Nonlinear Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
10.	GIAU01	Geosensor networks	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
12.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	2.Zoran D. Jeličić, Nebojša Petrovački: Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, accepted for publication on July 29th, 2008 in Journal of Structural And Multidisciplinary Optimization, Springer, Berlin-Heidelberg		
2.	1.Nebojša Petrovački: Identifikacija, simulacija i upravljanje klasom EDFA pojačavača, Doktorska disertacija, Fakultet tehničkih nauka u Novom Sadu, Novi Sad, decembar 2008. godine.		

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>		
<h2 style="margin: 0;">Study Programme Accreditation</h2>			
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>	
<p>Representative references (minimum 5, not more than 10)</p>			
3.	3.Zoran D. Jeličić, Nebojša Petrovački: On The Fractional Order Model of EDFA With ASE, in The Proceedings of IEEE Conference on Numerical Simulation of Optical Devices, University of Nottingham, Great Britain, September 2008.		
4.	4.Zoran D. Jeličić, Nebojša Petrovački: Fractional Derivative Model of Erbium-Doped Fiber Amplifiers With Asynchronous Spontaneous Emission, in Book of Abstracts of 2007 SIAM Conference on Control and Its Applications, June 29th - July 1st, 2007, San Francisco, California		
5.	5.Nebojša Petrovački, Zoran D. Jeličić: Specific Optimal Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of IFAC Workshop: Technology Transfer In Developing Countries: Automation in Infrastructure Creation, May 17-18, 2007 Izmir-Cesme, Turkey		
6.	6.Nebojša Petrovački, Zoran D. Jeličić: Modeling, Simulation, And Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13th 2006		
7.	7.Nebojša Petrovački, Zoran D. Jeličić: Optimal Transient Response of Erbium-Doped Fiber Amplifiers, in The Proceedings of The 6th IEEE International Conference on Numerical Simulation of Optoelectronic Devices, Nanyang Technological University, Singapore, September 11-14th 2006		
8.	8.Nebojša Petrovački: Stationary Simulation of The Gas Pipeline Using Neural Networks - Case Study of Vojvodina, in The Proceedings of The 10th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2006, July 16-19, 2006, Orlando, Florida (co-chair of the session)		
9.	9.Nebojša Petrovački: Erbium-Doped Fiber Amplifiers, invited talk at Department of Electrical and Computer Engineering of University of California, San Diego, April 14th, 2006.		
10.	11.Nebojša Petrovački: Gain Regulation In Erbium-Doped Fiber Amplifiers, in The Proceedings of The IEEE EUROCON 2005: The International Conference on Computer As A Tool, November 21-24, 2005, Belgrade, Serbia		
<p>Summary data for teacher's scientific or art and professional activity:</p>			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	0 International : 3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
--	---	--

Science, arts and professional qualifications



Name and last name:			Petrović S. Vladimir
Academic title:			Assistant Professor
Name of the institution where the teacher works full time and starting date:			-
Scientific or art field:			Telecommunications and Signal Processing
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2001	University of Manchester - Padej	Telecommunications and Signal Processing
Bachelor's thesis	-		Telecommunications and Signal Processing
Magister thesis	-		Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK300	Digital Modulations	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK412	Shape Recognition	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI121	Image processing and Computer Vision in Medical Imaging	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK463	Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK464	Communication Systems Design	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK520	Medical Image Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	H1420	Fundamentals in Mechanical Vision	(H00) Mechatronics, Master Academic Studies
9.	DE311	Selected Chapters in Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Petrović V., Babalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828		
2.	Petrović V., Cootes T.: Objectively Adaptive Image Fusion, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535		
3.	Petrović V.: Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 208-216, ISSN 1566-2535		
4.	Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, IEEE Transactions on Image Processing, 2004, Vol. 13, No 2, pp. 228-237, ISSN 1057-7149		
5.	Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, INFORM FUSION, 2003, Vol. 4, pp. 167-183, ISSN 1566-2535		
6.	Petrović V., Xydeas C.: Objective Evaluation of Signal-level Image Fusion Performance, OPT ENG, 2005, Vol. 44, No 8, ISSN 0091-3286		
7.	V Petrović, T Cootes, C Twining, C Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Arlington,USA, 12-15 April 2007		
8.	V Petrović, T Cootes, A Mills, C Taylor, „Simultaneous Segmentation of Groups of Medical Images", Medical Image Understanding and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007		
9.	V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007		
10.	V Petrović, T Cootes, C Twining, A Mills, C Taylor, „Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir Bhalerao and Nasir Rajpoot; Warwick, GB September 10-13, 2007		
Summary data for teacher's scientific or art and professional activity:			

	UNIVERSITY OF NOVI SAD					
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
	Study Programme Accreditation					
	UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering			
Quotation total :		1359				
Total of SCI(SSCI) list papers :		7				
Current projects :		Domestic :	2	International :	1	

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Pjevalica U. Nebojša	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.08.1997	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E227A	Logic Design of Computer Systems 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E244	Selected Chapters in Physical Architecture Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	BMI115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMET	Metrology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
8.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
9.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
10.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	A.Kozarev, N. Pjevalica, V. Macar, D. Roncevic, O. Varga-Silberholc, "Some Issues in Multimedia/B-ISDN Based Telecommunication Network Evolution - General Model", Telsiks'97, Vol2, pp.425-428, Nis, Yugoslavia 1997.		
2.	A.Kozarev, M. Nikolic, D. Milidrag, N. Pjevalica, "An Integrated Approach to Public Telecommunication Network in Multimedia/B-ISDN Environment", Telsiks'97, Vol2, pp.421-424, Nis, Yugoslavia 1997.		
3.	D. Zrilic, N. Pjevalica, "Frequency Deviation Measurement Based on Two - Arm Delta - Sigma Modulated Bridge", IMTC2001 IEEE Instrumentation and Measurement Technology Conference, pp.756-760, Budapest, Hungary 2001.		
4.	D. Zrilic, N. Pjevalica, "Stochastic Signal Processing Using Delta - Sigma Modulation", Proceedings of the Fifth Biannual World Automation Congress WAC 2002, Vol 14, pp653-658, Orlando, Florida, USA 2002.		
5.	B. Antić, N. Pjevalica, A New Approach to Power Grid Measurements - Measuring in Frequency Domain, JUKO CIRED 2006, Zlatibor 17.-20. oktobar.		
6.	Djuro G. Zrilic, Nebojsa U. Pjevalica, "Frequency Deviation Measurement Based on Two-Arm D-S Modulated Bridge" IEEE Transactions on instrumentation and measurement, vol. 53, no.2, april 2004, pp.293-299.		
7.	N. Pjevalica, V. Pjevalica, "Merenja na visokonaponskoj distributivnoj mreži primenom digitalnih mernih pretvarača", Simpozijum o merenjima i mernoj opremi, Zbornik radova, knjiga prva, pp505-513, Beograd, Yugoslavia,1998.		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	V. Vujičić, N. Pjevalica, "Stohastička realizacija digitalnih filtara", D.O.G.S. 2000 zbornik radova, pp.60-63, Novi Sad, Yugoslavia 2000		
9.	N. Pjevalica, "Digitalno merilo efektivne vrednosti", Kongres metrologa Jugoslavije 2000, (CD-ROM zbornik radova), Novi Sad, Yugoslavia 2000.		
10.	J. Tomić, N. Pjevalica, Integrisano merilo harmonika, Kongres metrologa, Beograd, 2005 godina.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Popov B. Srđan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 05.09.2001	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E214	Programming Languages and Data Structures	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	URZP11	Fundamentals of Information Technologies	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	URZP23	Applied Information Technologies	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	IMDS45	Application of information and satellite technology in risk management	(I22) Engineering Management, Specialised Academic Studies
7.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
9.	IMDR45	Application of Information and Satellite Technologies in Risk Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Jovčić N., Radonić (Jakšić) J., Turk Sekulić M., Vojinović-Miloradov M., Popov S.: Identification of emission sources of particle-bound polycyclic aromatic hydrocarbons in the vicinity of the industrial zone of the city of Novi Sad DOI: 10.2298/HEMIND120113062J, Hemijska industrija, 2012, ISSN 0367-598X		
2.	Čosić Đ., Popov S., Sakulski D., Pavlović A.: Geo-Information Technology for Disaster Risk Assessment, Acta Geotechnica Slovenica, 2011, Vol. 8, No 2011/1, pp. 64-74, ISSN 1854-0171		
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503		
4.	Sakulski D., Čosić Đ., Popov S.: Implementation of Innovative Technologies for Disaster Risk Reduction, 1. International Conference Natural Hazards, Novi Sad: University of Novi Sad, Faculty of Science, 5 Maj, 2012, pp. 15-16, ISBN 978-86-7031-276-0		
5.	Sakulski D., Čosić Đ., Popov S., Pavlović A., Laban M.: Disaster risk management and fire safety, 1. International conference Protection, Ecology, Security, Bar: Fakultet za pomorstvo Kotor, 24-26 Maj, 2012, pp. 75-81		
6.	Simić J., Popov S., Čosić Đ., Sakulski D., Novaković T., Popović Lj., Pavlović A., Luhović A.: The aspect of bringing data in spatial relationship during the process of teaching at the subject "Disaster risk management" , UDK: 37.01:004 (082)		
7.	Pavlović A., Čosić Đ., Popov S., Kolaković S.: Indikatori praćenja hazardnih pojava poplave i suše u cilju poboljšanja planiranja melioracija, Tematski zbornik radova "Melioracije 07 - stanje i perspektive-", 2012, No 12, pp. 136-146, ISSN 978-86-7520-107-6, UDK: 626.8(082)		

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Popović Lj., Popov S., Čosić Đ., Sakulski D.: Impact of Visualization on Data Availability, UDK: CIP je dostupan u Univerzitetskoj biblioteci Rijeke pod brojem 121219001		
9.	Alargić I., Badnjarević I., Vrtunski M., Popov S.: Setting the platform for testing the quality of DTM in the format of DTM-ASCII , 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica, , pp. 253-256, ISBN 978-1-4244-7395-3		
10.	Popov S., Pavlović A., Čosić Đ., Hlebjan M.: Interfacing Data Structures of Legacy Systems, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica: 2010 IEEE , , pp. 409-411, ISBN 978-1-4244-7395-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Popović V. Miroslav	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		21.03.1985	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carier	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	1990	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1988	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1984	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E23A2	Real Time System Programming 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23M	Real Time System Programming 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	SE0032	Parallel Programming	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	SE1006	Object Oriented Programming 2	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SERT01	System Programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT57	Inter Computer Communications and Computer Networks 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
9.	DRT01	Selected Chapters in Real Time Systems Software	(E20) Computing and Control Engineering, Doctoral Academic Studies
10.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 1: Programski alati i paralelno programiranje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.		
2.	Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 2: Operativni sistemi za rad u realnom vremenu, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	Miroslav Popović, Communication Protocol Engineering, CRC Press, Boca Raton, Florida, 2006, ISBN 0849398142.		
4.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8		
5.	Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849		
6.	Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248		
7.	Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215		
8.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445		
9.	Bašičević I., Kukulj D., Popović M.: On the application of fuzzy-based flow control approach to High Altitude Platform communications, Applied Intelligence, 2010, Vol. 2093, pp. 75-84, ISSN 1573-7497		
10.	Bašičević I., Popović M.: Use of SIP Protocol in Development of Telecom Services, Journal of The Communications Network, 2008, Vol. 3, No October, ISSN 1477-4739		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		216	
Total of SCI(SSCI) list papers :		11	
Current projects :		Domestic :	1
		International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Popović S. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2004	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1995	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1990	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1985	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE415A	Distribution Network Analysis and Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE420	Exploitation of Distribution Systems / Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI011	Software security and safety in power engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI014	Integration of power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE104S	Regulation and Distribution Network Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE205S	Distribution networks development planning	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE308S	Facility Planning and Optimization of Distribution Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EE500	Modelling in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE504	Management Systems in Power Engineering – EMS and DMS	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	EE562	Power System Exploitation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	DE217S	PES Analysis 4	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE217	PES Analysis 4	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE308	Facility Planning and Optimization of Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers		
2.	Janjić A., Popović D.: Selective Maintenance Schedule of Distribution Networks Based On Risk Management Approach, IEEE Trans. on Power Systems, 2007, Vol. 22, No 2, pp. 597-604		
3.	Popović D., Varga E., Perlić Z.: Extension of the Common Information Model With a Catalog of Topologies, IEEE Transactions on Power Systems, 2007, Vol. 22, No 2, pp. 770-777		
4.	Popović D., Popović Z.: A Risk management Procedure for Supply Restoration in Distribution Networks, IEEE Transactions on Power Systems , IEEE Transactions on Power Systems, 2004, Vol. 19, No 1, pp. 221-229		
5.	Popović D., Čirić R.: A Multi-Objective Algorithm for Distribution Networks Restoration, IEEE Trans. on Power Delivery, 1999, Vol. 14, No 3, pp. 1134-1141		
6.	Popović D., Levi V., Gorečan Z.: Coordination of Emergency Secondary Voltage Control and Load Shedding to Prevent Voltage Instability, Transmission and Distribution , IEE Proceedings -Generation, Transmission and Distribution, 1997, No 3, pp. 293-300		
7.	Levi V., Popović D.: Integrated Methodology for Transmission and Reactive Power Planning , IEEE Trans. on Power Systems, 1996, Vol. 6, No 4, pp. 1493-1499		
8.	Popović D., Čalović M., Levi V.: Voltage/Reactive Security Analysis in Power Systems with Automatic Secondary Voltage Control, IEE Proceedings -Generation, Transmission and Distribution, 1994, No 3, pp. 177-183		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
Representative references (minimum 5, not more than 10)				
9.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836			
10.	Popović D., Glamočić Lj., Nimrihter M.: The Optimal Automation Level of Medium Voltage Distribution Networks, International Journal of Electrical Power			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		185		
Total of SCI(SSCI) list papers :		15		
Current projects :		Domestic :	0	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:			Popović N. Željko		
Academic title:			Assistant Professor		
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad		
			01.10.2012		
Scientific or art field:			Electroenergetics		
Academic carieer		Year	Institution		Field
Academic title election:		2012	Faculty of Technical Sciences - Novi Sad		Electroenergetics
PhD thesis		2011	Faculty of Technical Sciences - Novi Sad		Electroenergetics
Magister thesis		1999	School of Electrical Engineering - Beograd		Electroenergetics
Bachelor's thesis		1988	Faculty of Technical Sciences - Novi Sad		Electroenergetics
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name		Study programme name, study type	
1.	EE420	Exploitation of Distribution Systems / Networks		(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	
2.	DE205S	Distribution networks development pllanning		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies	
3.	DE205	Planning the Distribution Networks Development		(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
4.	DE306	Load Management in PES		(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)					
1.	D. S. Popović, Ž. N. Popović, "A Risk management Procedure for Supply Restoration in Distribution Networks", IEEE Trans. on Power Systems, Vol. 19, No.1, pp. 221-228, February 2004.				
2.	Ž. N. Popović, D. S. Popović, "Graph theory based formulation of multi-period distribution expansion problems", Electric Power Systems Research, Vol. 80, No. 10 , pp. 1256-1266, October 2010.				
3.	Ž. Popovic, V. Kerleta, , "Expansion planning of distribution networks using simulated annealing technique", in Proceedings of the 21th conference on electricity distribution CIRED, June 2011.				
4.	Ž. Popovic, D. S. Popovic, , "A Graph Theory Based Formulation of Multi-Period Distribution Expansion Planning Problems", in Proceedings of the 20th conference on electricity distribution CIRED, June 2009.				
5.	Ž. Popovic, D. S. Popovic, V. Dj. Kerleta, "Risk Management Based Procedure for Multi-Stage Expansion Planning of Distribution Networks Under Uncertainty", in Proceedings of the 19th conference on electricity distribution CIRED, May 2007.				
6.	Ž. Popovic, D. S. Popovic, Vojin Dj. Kerleta "A Novel Methodology for Multi-Year Planning of Large-Scale Distribution Networks", in Proceedinf of the 18th conference on electricity distribution CIRED, May 2005.				
7.	Ž. Popovic, D. S. Popovic "A Dynamic Programming Based Procedure for Distribution Network Planning", in Proceedings of the 1th regional conference on electricity distribution JUKO CIRED, October 2004.				
8.	Ž. Popovic, D. S. Popovic, "Direct Load Control as a Market-Based Program in Deregulated Power Industries", in Proceedings of the IEEE Bologna Power Tech'03, June 2003				
9.	Ž. Popovic, D. S. Popovic, "A Novel Decomposition Procedure for Distribution Network Planning", in Proceedings of the 38th Universities Power Engineering Conference UPEC 2003, pp. 609-612, September 2003..				
10.	D. S. Popovic, Ž. Popovic, "Distribution Network Restoration Supply Based on Fuzzy Risk Management", in Proceedings of the 17th conference on electricity distribution CIRED, May 2003.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			26		
Total of SCI(SSCI) list papers :			3		
Current projects :			Domestic :	0	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Porobić B. Vlado	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 24.04.2000	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EOS08	Electrical machines and devices	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	EOS18	Industrial Protocols and Network	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
4.	EOS20	Electrical Drives and Control	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	EOS23	Wind Energy Conversion System	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	HE2465	Mechatronics of Transport and Construction Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
7.	EE424A	Power Electronic in Drive and Industry	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EE430	Control circuits in power electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EOS11	Application of microprocessor in energetics	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
10.	EOS26	Small hydro plants	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
11.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	SI021	Power Electronic in Drive and Industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	SI031	Industrial Systems and Protocols	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
Representative references (minimum 5, not more than 10)			
1.	Upravljanje asinhronim motorom bez davača položaja pri velikim brzinama obrtanja, 2012.		
2.	V. Porobic, E. Adzic , D. Marcetic " High Speed Shaft Sensorless DFOC Induction Motor Drive with Field Angle Correction," International Review of Electrical Engineering / IREE, vol. 6 br. 4, pp. 1664-1674, 2011., ISSN 1827-6660, (M22).		
3.	V. Porobić, E. Adžić, D. Marčetić, "Performance Evaluation of Field Angle Correction Scheme for High Speed Sensorless IM", 15th International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia		
4.	Marčetić Darko, Porobić Vlado: Primena mikroprocesora u energetici, praktikum laboratorijskih vežbi , Novi Sad, Fakultet tehničkih nauka, Novi Sad, 2011. 168str., ISBN 978-86-7892-328-9		
5.	E. Adžić, V. Porobić, D. Marčetić, Algoritam slabljenja polja vektorski upravljanog asinhronog motora pogodan za pogone u domaćinstvu, Infoteh-Jahorina Vol. 9, Ref. A-13, p. 65-69, March 2010.		
6.	V.Porobić, D. Marčetić, E. Adžić, "Sensorless induction motor drive in high speed range - some aspects of digital implementation", VIII Simpozijum Industrijska elektronika INDEL 2010, Banja Luka, 04–06. novembar 2010.		
7.	D. Reljić, D. Milićević, E. Adžić, B. Dumnić, S. Grabić, V.Porobić, M. Vekić, Z. Ivanović, V. Katić, V. Vasić, D. Marčetić, Đ. Oros, Z. Čorba, "Modern laboratory tools for experimental research in the field of electrical drives", XV Međunarodni simpozijum Energetska elektronika – Ee 2009, Novi Sad, Srbija		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	P. Matic, D. Marčetić, E. Adžić, V. Porobić, S. Vukosavić, "Projektovanje i izrada razvojnog okruženja za verifikaciju algoritma digitalnog upravljanja asinhronim motorom", Infoteh-Jahorina Vol. 8, Ref. A-10, p. 42-46, March 2009.		
9.	Z. Čorba, V. Katić, V. Porobić, "Mogućnosti korišćenja fotonaponskih panela na širem području Novog Sada", Konferencija ETRAN, Vrnjačka Banja, jun 2009.		
10.	J.Timer, E. Adžić, V. Porobić, D. Marčetić, "Influence of Rotor Time Constant error on IFOC Control Structure", ELECTRONICS, VOL. 13, NO. 1, June 2009		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:			Prša A. Miroslav
Academic title:			Associate Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			29.09.1975
Scientific or art field:			Theoretical Electrotechnics
Academic carieer	Year	Institution	Field
Academic title election:	2010		Theoretical Electrotechnics
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1974	Faculty of Natural Sciences and Engineering - Ljubljana	Electrical and Computer Engineering
Bachelor's thesis	1971	Faculty of Natural Sciences and Engineering - Ljubljana	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	Z107	Electrical Engineering, Environment and Protection	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
5.	EM511	Quantum and Organic Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	M. Prša, "Kožni pojav v premem vodniku pravokotnega prereza (Površinski efekat u pravom provodniku pravougaonog poprečnog preseka)", magistarska teza, Fakulteta za elektrotehniko, Ljubljana, 1974.		
2.	M. Prša, "Prilog analizi i optimizaciji cikličnog pretvaranja energije u magnetskim kolima sa promenljivom reluktansom", doktorska teza, Fakultet tehničkih nauka, Novi Sad, 1986.		
3.	M. Prša , K. Kasaš-Lažetić , V. Bajović: Determination of Earth Impedance, PSU-UNS International Conference on Engineering and Environment – ICEE - 2007, Phuket, Tailand: 10 i 11 Maj, 2007.		
4.	M. Milutinov, A. Juhas, M. Prša: Electric Field of Three-Phase Power Line Systems, PSU-UNS International Conference on Engineering and Environment – ICEE - 200, Phuket, Thailand: 10, 11 maj, 2007.		
5.	D. Herceg , B. Vujičić, Miroslav Prša: Determination of EM field and induced EMF of Voltage Measuring Trnasformer, 8th International Conference on Applied Electromagnetics PES 2007, Niš, Srbija: 3. do 5. Septembar, 2007.		
6.	M. Milutinov , A. Juhas, M. Prša: Electric Field Strength and Pplarization of Multi Three-Phase Power Lines , 8th International Conference on Applied Electromagnetics PES 2007, Niš, Srbija: 3. do 5., Septembar, 2007.		
7.	M. Prša , K. Kasaš-Lažetić: An Accurate Determination of Current Distribution within the Earth, 8th International Conference on Applied Electromagnetics PES 2007, Niš, Srbija: 3. do 5. Septembar, 2007.		
8.	M. Prša: Osnovi elektrotehnike za studente neelektrotehničkih fakulteta, Novi Sad, Stylos, 1995. 248 str.		
9.	M. Prša, L. Juhas: Osnovi elektrotehnike za studente neelektrotehničkih fakulteta - zbirka zadataka, Novi Sad, FTN - Edicija Tehničke nauke, 2001. 178str., ISBN 86-80249-45-9.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Radivojević D. Radoš	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1991	
Scientific or art field:		Sociology	
Academic carieer	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Sociology
PhD thesis	1990	Faculty of Philosophy - Novi Sad	Sociology
Magister thesis	1983	Faculty of Philosophy - Beograd	Sociology
Bachelor's thesis	1973	Faculty of Philosophy - Beograd	Sociology
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E106	Sociology of Technique	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E251	Sociological Aspects of Technical Development	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	E251A	Sociological Aspects of Technical Development	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	F108	Sociology of Culture	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GG02	Sociology and Economics in Civil Engineering	(G00) Civil Engineering, Undergraduate Academic Studies
6.	GG105	Sociology of Work	(G00) Civil Engineering, Undergraduate Academic Studies
7.	M318	Sociology of Technique	(F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
8.	Z310	Social Ecology	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	A206	Sociology and Economy of the Built Enviroment	(A00) Architecture, Undergraduate Academic Studies
10.	ASO311	Sociology of Art and Culture	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ETI41	Sociology of Technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	IM1003	Sociology of Work	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	A005S	Urban sociology and economics: selected chapters	(A00) Architecture, Specialised Academic Studies
14.	ZRMI3A	Sociological and Legal Aspects of Occupational Safety	(Z01) Safety at Work, Master Academic Studies
15.	A005	Urban Sociology and Economics – Selected Chapters	(A00) Architecture, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sociologija nauke, Stylos, Novi Sad, 1997.		
2.	Tehnika i društvo, Fakultet tehničkih nauka, Novi Sad, 2003.		
3.	Sociologija naselja, Fakultet tehničkih nauka, Novi Sad, 2004.		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	Fakultet tehničkih nauka-Razvoj, delatnost, rezultati, Novi Sad, 2006.		
5.	Karakteristike inženjersko ekonomskog proučavanja organizacije rada, Sociološki pregled br. 1-2, Beograd, 1984.		
6.	Socijalizam kao neproduktivni sistem, Sociološki pregled br 1-2, Beograd, 1994.		
7.	Karakteristike empirijskog proučavanja organizacije rada, Sociologija br 4, 1985.		
8.	Milićeva sociologija saznanja, Sociologija br 4, Beograd, 1997.		
9.	Socio-psychological consequences of the flood-an Example of Jasa Tomic, Editors:Stevan Bruk&Tiosav Petkovic, Belgrade, 2006.		
10.	Gordana Vuksanović, Radoš Radivojević, THE ROLE OF CHILDREN IN INVESTIGATING AND ELIMINATING THE CONSEQUENCES OF NATURAL DISASTERS		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Rakarić Đ. Zvonko	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.11.1999	
Scientific or art field:		Mechanics	
Academic carier	Year	Institution	Field
Academic title election:	2012		Mechanics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Technical Mechanics
Magister thesis	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	F107	Technical Mechanics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	GG14	Mechanics 2	(G00) Civil Engineering, Undergraduate Academic Studies
4.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
5.	M103	Mechanics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	M107	Mechanics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	M201	Mechanics 3	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
9.	M4301	Computer Methods in Mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	M45021	Computer Methods in Mechanics 2	(M40) Technical Mechanics and Technical Design, Master Academic Studies
Representative references (minimum 5, not more than 10)			

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>			
<h2 style="margin: 0;">Study Programme Accreditation</h2>				
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>		
<p>Representative references (minimum 5, not more than 10)</p>				
1.	Rakarić Z., Kovačić I.: An elliptic averaging method for harmonically excited oscillators with a purely non-linear non-negative real-power restoring force, in press, Communication in Non-linear Science and Numerical Simulations, 2012, ISSN 1007-5704			
2.	Rakarić Z., Kovačić I.: Approximations for motion of the oscillators with a non-negative real power restoring force, Journal of Sound and Vibration, 2011, No 330, pp. 321-336, ISSN 0022-460X			
3.	Kovačić I., Rakarić Z.: Study of oscillators with a non-negative real-power restoring force and quadratic damping, Nonlinear Dynamics, 2011, Vol. 64, No 3, pp. 293-304, ISSN 0924-090X, UDK: DOI: 10.1007/s11071-010-9861-9			
4.	Cvetičanin L., Kovačić I., Rakarić Z.: Asymptotic methods for vibrations of the pure fractional-order non-linear oscillators, Computers			
5.	Kovačić I., Rakarić Z.: Oscillators with a fractional-order restoring force: higher-order approximations for motion via a modified Ritz method, Communication in Non-linear Science and Numerical Simulations, 2010, Vol. 15, pp. 2651-2658, ISSN 1007-5704			
6.	Kovačić I., Rakarić Z., Cvetičanin L.: A non-simultaneous variational approach for a certain class of non-linear oscillators, Applied Mathematics and Computation, 2010, Vol. 217, pp. 3944-3954, ISSN 0096-3003			
7.	Rakarić Z.: Oscillators with a quasi-constant restoring force: approximations for motion, Meccanica, 2010, ISSN 0025-6455			
8.	Rakarić Z., Kovačić I.: Oscillators with a purely nonlinear non-negative real-power restoring force: approximations for free and forced response via elliptic functions and averaging, 7. European Nonlinear Dynamics Conference - ENOC, Rim, 24-29 Jul, 2011, ISBN 978-88-906234-2			
9.	Rakarić Z., Kovačić I.: On the behaviour of forced oscillators with a non-negative real-power restoring force and van der Pol damping, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 1284-1296, ISBN 978-86-909973-3-6			
10.	Rakarić Z., Zuković M.: Iteration method solutions for oscillators with $\text{sign}(x) x ^\alpha$ elastic force, 2. International Congress of Serbian Society of Mechanics, Palić, 1-5 Jun, 2009, pp. 1-10, ISBN 978-86-7892-173-5, UDK: paper A14			
<p>Summary data for teacher's scientific or art and professional activity:</p>				
Quotation total :	20			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Rakić S. Predrag	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.01.2003	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ISIT04	Osnove računara	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SE0031	Operating Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0033	Generic and Meta Programming	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SEM099	Programm Optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI-CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978		
2.	Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214		
3.	Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45		
4.	Rakić P., Stričević L., Suvajdžin Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad, 16-20 September, 2012		
5.	Stričević L., Rakić P., Hajduković M.: Finite Strip Method Construction Analysis Program Execution Speed Improvement on an MPI Cluster by Using Multiple Network Links, 20. Telekomunikacioni forum TELFOR, Beograd: Telecommunications Society, 20-22 November, 2012, pp. 1405-1408, ISBN 978-1-4673-2982-8		
6.	Živanov Ž., Rakić P., Hajduković M.: Wireless sensor network application programming and simulation system, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 109-126, ISSN 1820-0214		
7.	Živanov Ž., Rakić P., Hajduković M.: Using code generation approach in developing kiosk applications, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 41-59, ISSN 1820-0214		
8.	Milašinović D., Živanov Ž., Rakić P., Suvajdžin Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization		
9.	Milašinović D., Borković A., Živanov Ž., Rakić P., Hajduković M., Furtula B.: Large Displacement Stability Analysis of Columns using the Harmonic Coupled Finite-Strip Method		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
10.	Rakić P., Stričević L., Živanov Ž., Suvajdžin Z., Hajduković M.: Računarska učionica - iskustva u pripremi i korišćenju, INFO M, Beograd, 2007, Vol. 6, No 21, pp. 9-13, ISSN 1450-6254, UDK: 659.25		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	International :
		1	0

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications

Name and last name:		Salamon D. Dragutin	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		School of Electrical Engineering - Beograd 01.10.1973	
Scientific or art field:		Electroenergetic Systems	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Electroenergetic Systems
PhD thesis	1992		Electroenergetic Systems
Magister thesis	1978		Electroenergetic Systems
Bachelor's thesis	1973		Electroenergetic Systems
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE0400	Electrical Substations 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	DE116S	Electrical Substations 2	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
3.	EE400	Electrical Substations	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
4.	DE116	Electrical Substations 2	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	J. Nahman, D. Salamon, "Safety Analysis at Overhead Line Towers in Close Proximity to the Substation", IEEE Transaction on Power Delivery (ISSN 0885-8977), Vol. 25, No. 3, July 2010., pp. 1508-1515. (IF 1.289)		
2.	Nahman J., Salamon D., "Analytical Expressions for The Resistance of Grounding Grids in Nonuniform Soil", IEEE Transactions on Power Apparatus and Systems (ISSN 0018-9510), Vol. PAS-103, April 1984., pp. 880-885, (IF 0.390); (časopis izlazio do 1986., posle se podelio na 3 časopisa)		
3.	Nahman J., Salamon D., "Analytical Expressions for The Resistance of Rodbeds and of Combined Grounding Systems in Nonuniform Soil", IEEE Transactions on Power Delivery (ISSN 0885-8977), Vol. PWRD-1, July 1986., pp. 90-96. (IF 0.081)		
4.	Nahman J., Salamon D., "A Practical Method for The Interpretation of Earth Resistivity Data Obtained From Driven Rod Tests", IEEE Transactions on Power Delivery (ISSN 0885-8977), Vol. PWRD-3, Oct. 1988., pp. 1375-1379. (IF 0.145)		
5.	Nahman J., Salamon D., "Effects of The Metal Sheathed Cables Upon ThePerformance of The Distribution Substations Grounding Systems", IEEE Transactions on Power Delivery (ISSN 0885-8977), Vol. PWRD-7, No.3, oct. 1992., pp. 1179 – 1187 (IF 0.247)		
6.	Nahman J., Djordjević V., Salamon D., "Nonuniformity Correction Factors for Maximum Mesh-voltages of Combined Grid-multiple Rods Electrodes", IEEE Transactions on Power Delivery (ISSN 0885-8977), PWRD-11, No. 3, July 1996. pp. 1343-1348, (IF 0.334)		
7.	Stojković Z., Savić M. S., Nahman J., Salamon D., Bukorović B., "Sensitivity Analysis of Experimental Determined Grounding Grid Impulse Characteristics", IEEE Transactions on Power Delivery (ISSN 0885-8977), Vol. 13, No. 4, Oct. 1998., pp. 1136-1142. (IF 0.334)		
8.	Stojković Z., Savić M. S., Nahman J., Salamon D., Bukorović B., "Experimental Investigation of Grounding Grid Impulse Characteristics", European Transactions on Electrical Power (ETEP) (ISSN 1430-144X), Vol. 8, Nov./Dec. 1998., pp. 417-421. (IF 0.352)		
9.	J. Nahman, V. Djordjevic, D. Salamon, "Grounding Effects of HV and MV Underground Cables Associated With Urban Distribution Substations", IEEE Transactions on Power Delivery (ISSN 0885-8977), Vol. 17, No. 1, January 2002. pp. 111-116, (IF 0.317)		
10.	J. Nahman, D. Salamon, Z. Stojkovic, J. Mikulovic, "Rationalization of operation of an industrial network", Electric Power System Research (ISSN 0378-7796), 78(2008), pp. 1664-1671, (IF 0.952)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		70	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:			Samardžija M. Dragan
Academic title:			Assistant Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			01.11.2008
Scientific or art field:			Computer Engineering and Computer Communication
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2004	Rutgers University - Newark, New Jersey	Electrical and Computer Engineering
Magister thesis	2000	Rutgers University - Newark, New Jersey	Electrical and Computer Engineering
Bachelor's thesis	1996	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E23B	Fundamentals of Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23B1	Computer Network Fundamentals 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	SE0015	Prenos podataka i računarske komunikacije	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
5.	DRT08	Selected Topics in Wireless Computer Communications	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Unquantized and Uncoded Channel State Information Feedback in Multiple Antenna Multiuser Systems, IEEE Transactions on Communication, 2006, Vol. 54, str. 1335- 1345		
2.	Blind Successive Interference Cancellation for DS-CDMA Systems, IEEE Transactions on Communications, 2002, Vol. 50, str. 276- 290		
3.	Pilot Assisted Estimation of MIMO Fading Channel Response and Achievable Data Rates, IEEE Transactions on Signal Processing, 2003, Vol. 51, str. 2882- 2890		
4.	Compressed Transport of Baseband Signals in Radio Access Networks, IEEE Transactions on Wireless Communications, Volume 11, Issue 9, pp. 3216 - 3225, 2012		
5.	Peer-to-Peer MIMO Radio Channel Measurements in a Rural Area, IEEE Transactions on Wireless Communications, 2007, Vol. 6, str. 3229- 3237		
6.	Impact of Pilot Design on Achievable Data Rates in Multiple Antenna Multiuser TDD Systems, IEEE JSAC, Special Issue on Optimization of MIMO Transceivers, 2007, Vol. 25, str. 1370- 1379		
7.	Prototype Experience for MIMO BLAST over Third Generation Wireless System, IEEE JSAC on MIMO Systems and Applications: Part I, 2003, Vol. 21, str. 440- 451		
8.	Joint Coding Rate Control for Audio Streaming in Short Range Wireless Networks, IEEE Transactions on Consumer Electronics, 2009, Vol. 55, No. 2, str. 486- 491, ISSN ISSN: 0098-3063.		
9.	A Human Detection Method for Residential Smart Energy Systems Based on Zigbee RSSI Changes, IEEE Transactions on Consumer Electronics, vol.58, no.3, pp.819-824, August 2012		
10.	Experimental Evaluation of Unsupervised Channel Deconvolution for Wireless Multiple-Transmitter/Multiple-Receiver Systems, Electronics Letters IEE, 2002, Vol. 38, No. 20, str. 1214- 1216		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			311
Total of SCI(SSCI) list papers :			11

	UNIVERSITY OF NOVI SAD				
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
Study Programme Accreditation					
UNDERGRADUATE ACADEMIC STUDIES			Power, Electronic and Telecommunication Engineering		
Current projects :	Domestic :	0	International :	0	

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Sarić T. Andrija	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	2012		Electroenergetics
PhD thesis	1997	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1992	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	School of Electrical Engineering - Beograd	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE411B	Exploitation of PES	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ESI018	GIS in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI019	Critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	DE307S	Planning and Optimization of Power System Plant	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE407S	Regulation and Distribution Network Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE513S	Advanced Methods of Monitoring and Management	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE314S	Selected Chapters in System Management in Power Systems – EMC and DMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE519S	PES Planning	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE307	Planning and Optimization of Power System Plant	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
10.	DE407	Regulation and Control of Electric Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
11.	DE513	Advanced Methods of Monitoring and Management	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE314	Selected Chapters in System Management in Power Systems – EMC and DMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE519	PES Planning	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	M. S. Čalović, A. T. Sarić, "Planiranje elektroenergetskih sistema; Prvi deo: Principi i metodologija planiranja elektroenergetskih sistema", Beopres, Beograd, 2000, 342 strane, ISBN 86-7418-010-8, CIP 621.311:65.012(075.8).		
2.	M. S. Čalović, A. T. Sarić, "Osnovi analize elektroenergetskih mreža i sistema", Akademska misao i Tehnički fakultet u Čačku, Beograd, 2004, 778 strana, ISBN 86-7466-134-3, CIP 621.311(075.8).		
3.	M. S. Čalović, A. T. Sarić, P. Č. Stefanov, "Eksplotacija elektroenergetskih sistema u uslovima slobodnog tržišta", Tehnički fakultet, Čačak, 2005, 420 strana, ISBN 86-7776-006-7, CIP 621.311(075.8).		
4.	Sarić A., Murphy F., Soyster A., Stanković A.: Two-Stage Stochastic Programming Model for Market Clearing with Contingencies, IEEE Trans. on Power Systems, 2009, Vol. 24, No 3, pp. 1266-1278		
5.	Sarić A., Stanković A.: Applications of Ellipsoidal Approximations to Polyhedral Sets in Power System Optimization, IEEE Transaction on Power Systems, 2008, Vol. 23, No 3, pp. 956-965		
6.	Sarić A., Stanković A., Stanković A.: An Application of Interval Analysis and Optimization to Electric Energy Markets, IEEE Transaction on Power Systems, 2006, Vol. 21, No 2, pp. 515-523		
7.	Sarić A., Stanković A.: Integration of Equation and Signal-based Models in Transient Analysis of Electric Energy Systems, IEEE Transactions on Circuits and Systems I, 2006, Vol. 53, No 7, pp. 1589-1596		
8.	Sarić A., Stanković A.: Model Uncertainty in Security Assessment of Power Systems, IEEE Transaction on Power Systems, 2005, Vol. 20, No 3, pp. 1398-1405		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>			
Representative references (minimum 5, not more than 10)				
9.	Stanković A., Sarić A.: Transient Power System Analysis with Measurement-Based Gray Box and Hybrid Dynamic Equivalents, IEEE Trans. on Power Systems, 2004, Vol. 19, No 1, pp. 455-462			
10.	Sarić A., Ćirić R.: Integrated Fuzzy State Estimation and Load Flow Analysis in Distribution Networks, IEEE Trans. on Power Delivery, 2003, Vol. 18, No 2, pp. 571-578			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		140		
Total of SCI(SSCI) list papers :		21		
Current projects :		Domestic :	2	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Satarić V. Miljko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		03.01.1973	
Scientific or art field:		Physics	
Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1984	School of Electrical Engineering - Beograd	Physics
Magister thesis	1979	School of Electrical Engineering - Beograd	Physics
Bachelor's thesis	1972	Faculty of Sciences - Novi Sad	Physics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E215	Physics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	Z103	Selected Chapters in Physics 1	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z110	Selected Chapters in Physics 2	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE203S	Odabrana poglavlja iz kvantne elektronike	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE301S	Molekularna elektronika(uneti naziv na engleskom)	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
9.	EM511	Quantum and Organic Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	SI028	Biophysics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	DE203	Selected Chapters in Quantum Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE301	Molecular Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	S. Zdravković, M.V. Satarić, "Single-Molecule Unzipping Experiments on DNA Peyrard-Bishop-Dauxois Model", Phys.Rev.E73,021905-11,2006.				
2.	J. A. Tuszynski, J. A. Brown, E. Crawford, E. J. Carpenter, M. L. A. Nip, J. M. Dixon, M. Satarić, "Molecular dynamics simulations of tubulin structure and calculations of electrostatic properties of microtubules", Mathematical and Computer Modelling, vol. 41, no.10, pp. 1055-1070, 2005.				
3.	M. Satarić, B. Satarić, J. A. Tuszynski, "Nonlinear model of microtubule dynamics", Electromagnetic Biology and Medicine, vol.24, no. 3, pp. 255-264, 2005.				
4.	S. Zdravković J. A. Tuszynski, M. Satarić "Peyrard-Bishop-Dauxois model of DNA dynamics and impact of viscosity", Journal of Computational and Theoretical Nanoscience, vol. 2, no. 2, pp. 263-271, 2005.				
5.	S. Zdravković, M. Satarić, "Optical and Acoustical Frequencies in a Nonlinear Helicoidal Model of DNA Molecule", Chinese Physics Letters 22, pp. 850-853, 2005.				
6.	S. Portet, J. A. Tuszynski, J. M. Dixon, M. Satarić, "Models of spatial and orientational self-organization of microtubules under the influence of gravitational fields", Physical Review E, vol. 68, no. 2, 2003.				
7.	M. Satarić, J. A. Tuszynski, "Relationship between the nonlinear ferroelectric and liquid crystal models for microtubules", Physical Review E, vol. 67, no. 1, 2003.				
8.	S. Zdravković, M. Satarić, "DNA dynamics and big viscosity", International Journal of Modern Physics B, vol.17, no. 31-32, pp. 5911-5923, 2003.				
9.	M. Satarić, J. A. Tuszynski, "Impact of regulatory proteins on the nonlinear dynamics of DNA", Physical Review E, vol. 65, no. 5, 2002.				
10.	G. Keković, D. Raković, M. Satarić, D. Koruga, "A kink-soliton model of charge transport through microtabular cytoskeleton", Current Research in Advanced Materials and Processes, vol. 494, pp. 507-512, 2005.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			295		
Total of SCI(SSCI) list papers :			67		
Current projects :			Domestic :	1	International : 2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Sečujski S. Milan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.06.2000	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK314	Digital Signal Processing	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
9.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
15.	SI036	Computer-Telephony Integration	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies
Representative references (minimum 5, not more than 10)			

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>			
<h2 style="margin: 0;">Study Programme Accreditation</h2>				
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>		
<p>Representative references (minimum 5, not more than 10)</p>				
1.	<p>Milan Sečujski, Radovan Obradović, Darko Pekar, Ljubomir Jovanov, Vlado Delić: "AlfaNum System for Speech Synthesis in Serbian Language", Lecture Notes in Artificial Intelligence – Subseries of Lecture Notes in Computer Science, 2002, pp. 237- 244, ISSN 0302-9743.</p>			
2.	<p>Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: "Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol", Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215</p>			
3.	<p>Popović B., Janev M., Pekar D., Jakovljević N., Gnjatović M., Sečujski M., Delić V.: A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models, DOI:10.1007/s10489-011-0333-9, Applied Intelligence, 2012, Vol. 37, No 3 (2012), pp. 377-389, ISSN 0924-669X</p>			
4.	<p>Delić V., Bojanić M., Gnjatović M., Sečujski M., Jovičić S.: Discrimination capability of prosodic and spectral features for emotional speech recognition DOI: http://dx.doi.org/10.5755/j01.eee.18.9.2806, Electronics and electrical engineering, 2012, Vol. 18, No 9, pp. 51-54, ISSN 1392-1215</p>			
5.	<p>Delić V., Sečujski M., Jakovljević N., Janev M., Obradović R., Pekar D.: "Speech Technologies for Serbian and Kindred South Slavic Languages", 9th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from: http://www.intechopen.com/articles/show/title/speech-technologies-for-serbian-and-kindred-south-slavic-languages, SCIYO, 2010, str. 141-164, ISBN 978-953-307-097-1</p>			
6.	<p>Pekar D., Mišković D., Knežević D., Vujnović Sedlar N., Sečujski M., Delić V.: "Applications of Speech Technologies in Western Balkan Countries", 7th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from http://www.intechopen.com/articles/show/title/applications-of-speech-technologies-in-western-balkan-countries, SCIYO, 2010, str. 105-122, ISBN 978-953-307-097-1</p>			
7.	<p>Sečujski M.: "Development of language resources for the Serbian language required for part-of-speech tagging", Chapter in book: „Speech and Language: Interdisciplinary Research III“, Eds.: S. T. Jovičić, M. Sovilj, Beograd, LAAC and IEPPS, 2009, str. 125-139, UDK: ISBN 978-86-81879-27-6</p>			
8.	<p>Milan Sečujski: A Software Tool for Automatic Part-of Speech Tagging in Serbian Language, Primenjena lingvistika, 2008, No. 9, pp. 97- 103, UDK: 004.934 : 004.4, ISSN 1451-7124.</p>			
9.	<p>Vlado Delić, Darko Pekar, Radovan Obradović, Milan Sečujski: "Speech Signal Processing in ASR&TTS Algorithms", Facta Universitatis (Niš), Series: Electronics and Energetics, 2003, Vol. 16, No. 3, pp. 355- 364, ISSN 0353-3670.</p>			
10.	<p>Jakovljević N., Sečujski M., Delić V.: Vocal Tract Length normalization strategy based on maximum likelihood criterion, 8. EUROCON, Sankt Peterburg: IEEE, 18-23 Maj, 2009, pp. 417-420, ISBN 978-1-4244-3861-7</p>			
<p>Summary data for teacher's scientific or art and professional activity:</p>				
Quotation total :	0			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
--	---	--

Science, arts and professional qualifications



Name and last name:		Simić S. Srbojlob	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 25.11.1993	
Scientific or art field:		Mechanics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1997	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1993	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	GG07	Mechanics 1	(G00) Civil Engineering, Undergraduate Academic Studies
3.	M4305	Thermomechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	M44031	Analytical mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	M4505	Modelling of non-linear systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies
7.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
8.	DM407	Nonlinear Mechanics with Nonconservative Properties	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
9.	DSIM8	Selected Chapters in Dynamics and Control	(M40) Technical Mechanics, Doctoral Academic Studies
10.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Srbojlob S. Simić: Analitička mehanika: dinamika, stabilnost, bifurkacije, Fakultet tehničkih nauka, Novi Sad 2006., Edicija „Tehničke nauke - udžbenici“, 415 str., ISBN 86-85211-83-2		
2.	Srbojlob S. Simić, Ratko B. Maretić: Osnove mehanike, Fakultet tehničkih nauka, Novi Sad 2008., Edicija „Tehničke nauke - udžbenici“, 273 str., ISBN 978-86-7892-147-6		
3.	B.D. Vujanovic, T. Kawaguchi, S.S. Simic (1997), A Class of Conservation Laws of Linear Time-Dependent Dynamical Systems, TENSOR (NS), 58 (3), pp. 243-252.		
4.	T.M. Atanackovic, S.S. Simic (1999), On the optimal shape of a Pflüger column, European Journal of Mechanics, A/Solids, 18 (5), pp. 903-913.<leng>		
5.	S.S. Simic (2002), On the symmetry approach to polynomial conservation laws of one-dimensional Lagrangian systems, International Journal of Non-Linear Mechanics, 37, pp. 197-211.<leng>		
6.	T. Ruggeri, S. Simić (2004), Non Linear Wave Propagation in Binary Mixtures of Euler Fluids, Continuum Mechanics and Thermodynamics, 16, pp. 125-148.<leng>		
7.	T. Ruggeri, S. Simić (2007), On the Hyperbolic system of a mixture of Eulerian fluids: a comparison between single- and multi-temperature models, Mathematical Methods in the Applied Sciences, 30, pp. 827-849.<leng>		
8.	T. Ruggeri, S. Simić (2009) Average temperature and Maxwellian iteration in multitemperature mixtures of fluids, Physical Review E, vol. 80, 026317		
9.	T. Atanacković, S. Konjik, S. Pilipović, S. Simić (2009) Variational problems with fractional derivatives: Invariance conditions and Nöther's theorem, Nonlinear Analysis: Theory, Methods and Applications, vol. 71, pp. 1504-1517		
10.	S. Simić (2009) Shock structure in continuum models of gas dynamics, Nonlinearity, vol. 20, pp. 1337-1366		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		7		
Total of SCI(SSCI) list papers :		9		
Current projects :		Domestic :	1	International : 1


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Sladić S. Goran	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.2004	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2E41	E-Business Systems Security	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS36	Elektronsko poslovanje i ugovaranje	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
6.	ISIT10	Introduction to Software Development	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	ISIT2A	Software Development Techniques	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
9.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
11.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
12.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
14.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
15.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies		
16.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
17.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
18.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
19.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
20.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
21.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
22.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Sladić G., Milosavljević B., Surla D., Konjović Z.: Flexible Access Control Framework for MARC Records, The Electronic Library, 2012, Vol. 30, No 5, pp. 623-652, ISSN 0264-0473, DOI:10.1108/02640471211275684				
2.	Gostojić S., Sladić G., Milosavljević B., Konjović Z.: Context-sensitive Access Control Model for Government Services, Journal of Organizational Computing and Electronic Commerce, 2012, Vol. 22, No 2, pp. 184-213, ISSN 1091-9392, DOI:10.1080/10919392.2012.667717				
3.	Sladić G., Milosavljević B., Konjović Z., Vidaković M.: Access Control Framework for XML Document Collections, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 3, pp. 591-609, ISSN 1820-0214, DOI: 10.2298/CSIS100827002S				
4.	Vidaković M., Milosavljević B., Konjović Z., Sladić G.: Extensible Java EE-Based Agent Framework and Its Application on Distributed Library Catalogues, Computer Science and Information Systems (ComSIS), 2009, Vol. 6, No 2, pp. 1-28, ISSN 1820-0214, DOI: 10.2298/cs0902001V				
5.	Sladić G., Milosavljević B., Konjović Z.: Extensible Access Control Model for XML Document Collections, 1. International Conference on Security and Cryptology - SECRIPT, Barcelona: INSTICC, 28-31 Jul, 2007, pp. 373-380, ISBN 9789898111128				
6.	Sladić G.: Kontrola pristupa u poslovnim sistemima, Beograd, Zadužbina Andrejević, 2011, ISBN 978-86-525-0000-0				
7.	Sladić G.: Kontrola pristupa XML dokumentima, Zadužbina Andrejević, 2008, ISBN 978-86-7244-683-8				

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397		
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59		
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		54	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	International :
		2	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Sladoje Matić I. Nataša	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		14.03.1994	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2011		Mathematics
PhD thesis	2005	University of Novi Sad - Novi Sad	Mathematical Sciences
Magister thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1992	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A101	Mathematics	(A00) Architecture, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
4.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA008	Mathematics for Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
11.	Z506	20BAAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
12.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
13.	D0M28	Digital Geometry	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M29	Image Processing 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M30	Image Processing 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M33	Positional Games	(OM1) Mathematics in Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
19.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
20.	AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856				
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611				
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828				
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<leng>				
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<leng>				
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<leng>				
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<leng>				
8.	Čurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.				
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.				
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			71		
Total of SCI(SSCI) list papers :			21		
Current projects :			Domestic :	2	International : 3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Slankamenac P. Miloš	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.2002	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM414	Optoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	F207	Electronics and Optoelectronics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	EM430A	Control and process electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM444B	Applied electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM455	Electronic multimedia systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EM456	Computers in the supervisory and control systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI02	Electronics and Telecommunication Development Tools 1	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI09	Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	ETI14	Digital Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI22	Sensors and Actuators	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI28	Industrial Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	ETI38	Optoelectronics for communication and sensors	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
13.	DE201S	Selected Chapters in Optoelectronics and Photonics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE503S	Industrial Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	SI013	Applied electronics in industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI035	Electronic Systems in Oil Industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	SI042	Optoelectronics components	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
18.	BMIM1A	Applications of lasers in medicine	(BM0) Biomedical Engineering, Master Academic Studies
19.	DE117S	Selected chapters from optoelectronics sensors systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
20.	DE315S	Optoelectronics sensors systems-advanced course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
21.	DE418S	Design of complex optoelectronics systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
22.	EM435A	Electronic Systems in Oil Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
23.	EM437A	The application of electronic systems in clean and renewable energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
24.	EM439A	Electronics in vehicles	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
25.	EM520	Industrial networks and protocols	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
26.	EM521	Applied optoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
27.	EM523	Applied electronics in industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
28.	EM532	Design of electronic devices.	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
29.	F510E1	Electronic multimedia systems	(F00) Graphic Engineering and Design, Master Academic Studies
30.	DE201	Selected Chapters in Optoelectronics and Photonics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
31.	DE400	Complex Digital Systems and High Frequency Circuits	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
32.	DE503	Industrial Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
33.	DE117	Selected chapters from optoelectronics sensors systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
34.	DE315	Optoelectronics sensors systems-advanced course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
35.	DE418	Design of complex optoelectronics systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Miloš P. Slankamenac, Miloš B. Živanov, Nikola Stojanović "Optoelektronske komponente -skripta", Fakultet tehničkih nauka u Novom Sadu, 281 str., 2010.		
2.	Miloš Slankamenac, Kalman Babković, Ivan Mezei: Mikrokontroler 8051/8052 - praktikum laboratorijskih vežbi, Fakultet tehničkih nauka u Novom Sadu, Edicija: Tehničke nauke – udžbenici, 115 str. ISBN: 978-86-7892-045-5, Novi Sad, 2007.		
3.	Miloš B. Živanov, Miloš P. Slankamenac, Optoelektronika, praktikum za laboratorijske vežbe, Fakultet tehničkih nauka u Novom Sadu, Edicija: Univerzitetski udžbenik, 110 str. ISBN: 978-86-7892-085-1, UDK: 621.38:535(075.8)(076), Novi Sad, 2008.		
4.	Slankamenac M., Lukić-Petrović S., Živanov M., Čajko K.: Electrical switching behavior of bulk $\text{Cu}_x(\text{AsSe}_{1.410.2})_{100-x}$ glasses: Composition dependence and topological effects, SOLID STATE COMMUN, 2012, Vol. 152, No 13, pp. 1160-1163, ISSN 0038-1098		
5.	Bajić J., Stupar D., Manojlović L., Slankamenac M., Živanov M.: A simple, low-cost, high-sensitivity fiber-optic tilt sensor, Sensors and Actuators A: Physical, 2012, Vol. 185, pp. 33-38, ISSN 0924-4247		
6.	Stupar D., Bajić J., Manojlović L., Slankamenac M., Joža A., Živanov M.: A Wearable Low-Cost System for Human Joint Movements Monitoring Based on Fiber-Optic Curvature Sensor, IEEE Sensors Journal, 2012, ISSN 10.1109/JSEN.2007.90		
7.	Manojlović L., Živanov M., Slankamenac M., Bajić J., Stupar D.: High-speed and high-sensitivity displacement measurement with phase-locked low-coherence interferometry, APPL OPTICS, 2012, Vol. 51, pp. 4333-4342		
8.	Lukić-Petrović S., Skuban F., Petrović D., Slankamenac M.: Effect of copper on DC and AC conductivity of $(\text{As}_2\text{Se}_3)(\text{AsI}_3)$ glassy semiconductors, Journal of Non-Crystalline Solids, 2010, Vol. 40, No 10, pp. 108-112, UDK: doi:10.1016/j.jnoncrysol.2010.05.009		
9.	Slankamenac M., Lukić-Petrović S., Živanov M.: Electrical switching in the bulk metal chalcogenide glassy semiconductor $\text{Cu}_{10}(\text{AsSe}_{1.410.2})_{90}$, Semicond. Sci. Technol., 2009, Vol. 24, No 8, pp. 1-7, ISSN 0268-1242, UDK: 10.1088/0268-		
10.	Bajić J., Stupar D., Joža A., Slankamenac M., Jelić M., Živanov M.: A simple fiber optic inclination sensor based on the refraction of light, Physica scripta, 2012, Vol. 149, pp. 1-4, ISSN 0031-8949, UDK: doi:10.1088/0031-8949/2012/T149/014024		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		26	
Total of SCI(SSCI) list papers :		18	
Current projects :		Domestic :	3
		International :	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Sovilj M. Platon	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.2007	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Biomedical Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BM119E	Technical standards and regulations for medical devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BM115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EI408	Project Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMMBM	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
11.	BMIM5B	Design and developoment of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	BMIM5C	Brain Computer Interface	(BM0) Biomedical Engineering, Master Academic Studies
13.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
15.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
17.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
18.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
19.	DE518	Brain Computer Interface Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sovilj P.: Stohastičko digitalno merenje EEG signala, Novi Sad, Fakultet tehničkih nauka, 2010		
2.	Sovilj P.: Eksterno testiranje površinskih kalemova uređaja za magnetsku rezonancu, FTN Novi Sad, 2006		
3.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456		
4.	Sovilj P., Pjevalica N.: FPGA based model of processing EEG signal, 17. Telekomunikacioni forum TELFOR, Beograd: Telecommunications society, Belgrade, 24-26 Novembar, 2009, pp. 677-680, ISBN 978-86-7466-375-2		
5.	Sovilj P., Čabrilo N., Vujičić V., Župunski I.: Remote measurements by ZigBit wireless module, 10. International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI, Banja Luka: Mašinski fakultet Banja Luka, 26-28 Maj, 2011, pp. 885-891, ISBN 978-99938-39-36-1, UDK: 621(082);621.3(082)		
6.	Sovilj P., Davidović D., Beljić Ž., Ković V.: Measurement and processing of event-related brain potential records, 19. Telekomunikacioni forum TELFOR, Beograd: TELFOR, 22-24 Novembar, 2011, pp. 683-686, ISBN 978-1-4577-1498-6		
7.	Pjevalica N., Pjevalica V., Sovilj P.: Tehničko rešenje: Unapređeni algoritam upravljanja memorijom, Razvijeno: u okviru projekta tehnološkog razvoja TR-11005, 2011		
8.	Ivanović M., Sovilj P.: Developing Expert System for assessment of quality management level, International Journal Total Quality Management		
9.	M. Bobrek, Z. Tanasić, P. Sovilj: Upravljanje projektima, udžbenik, MFBL, Banja Luka, 2006		
10.	M. Bobrek, M. Soković, P. Sovilj, Z. Tanasić: Upravljanje kvalitetom, udžbenik, MFBL, Banja Luka 2006, COBISS.SI-ID 982249		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		5	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	International :
		2	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Spasić T. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1985	
Scientific or art field:		Mechanics	
Academic carier	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	1993	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1991	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1884	Faculty of Technical Sciences - Novi Sad	Information-Communication Systems
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
2.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
4.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	M4302	Biomechanics and mechanics of sport	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	ASO	Introduction to engineering	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BMI128	Continuum Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI96	Mechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
14.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
15.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
17.	DM406	Nonsmooth Mechanics and Optimization	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	ZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Doctoral Academic Studies
20.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
21.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
22.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
23.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Spasić D., Glavardano V.: Does generalized elastica lead to bimodal optimal solutions?, International Journal of Solids and Structures, 2009, Vol. 46, No 14-15, pp. 2939-2949, ISSN 0020-7683		
2.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, No Prihvaćen za štampu, ISSN 0218-1274		
3.	D. T. Spasic and T. M. Atanackovic (2004), "Bimodal optimization of a compressed rotating rod", Acta Mechanica, 173, N 1-4, 77-87		
4.	Spasić D.: Optimizing the elctrodynamical stabilization method for a man-made Earth satellite, AUTOMAT REM CONTR , 2011, Vol. 72, No 9, pp. 112-121, ISSN 0005-1179		
5.	Petrović Lj., Spasić D., Atanacković T.: On a mathematical model of a human root dentin , Dental Materials, 2005, Vol. 21, pp. 125-128, ISSN 0109-5641		
6.	Mitić G., Spasić D.: Clinical Characteristic and type of thrombophilia in women with pregnancy-related venous thromboembolic disease, GYNECOL OBSTET INVES, 2011, Vol. 72, No 2, pp. 103-108, ISSN 0378-7346		
7.	T. M. Atanackovic and D. T. Spasic, (2004): "On viscoelastic compliant contact-impact models", Transactions of ASME Journal of Applied Mechanics, 71, 134-138		
8.	Radovic R., Spasic D.T., Karadzic B., Novakovic B., Atanackovic J., Jelcic Z.. and Tepavcevic B., (2002), ""New challenges and opportunities for the city of Novi Sad"", Coordinated by T. Atanackovic, The Danube Commision of EU and The University of Novi Sad, (monograph 157 pages in English and Serbian)		
9.	Spasić D.: Boudary elements, theory and applications (English to serbian traslation done by D.T. Spasić), Beograd, Gradjevinska knjiga, 2011		
10.	BD Vujanović, DT Spasić: Metodi optimizacije: primenjeni varijacioni račun, analitička mehanika, optimalno upravljanje, UNS, 1997.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		16	
Total of SCI(SSCI) list papers :		8	
Current projects :		Domestic :	International :
		1	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Spasić-Jokić M. Vesna	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.2006	
Scientific or art field:		Electrical Measurements	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical Measurements
Magister thesis	1986	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1978	School of Electrical Engineering - Beograd	Electrical Measurements
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EIJNZZ	Ionizing and Non-Ionizing Radiation and Protection	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIMET	Metrology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EISIK	Standardization and quality	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	DE303S	Biomedical Instrumentation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EI522	Introduction to knowledge management	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	SI018	Ionizing and Non-Ionizing Radiation and Protection	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
8.	SI019	Quality in Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
9.	SI039	Metrology	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	M.Tomašević, V.Spasić Jokić: "Rendgensko zračenje i zaštita u mamografiji", izdavač Srpsko lekarsko društvo, 2002, 348 strana.		
2.	Radovan Ilić, Vesna Spasić-Jokić, Petar Beličev, Miloš Dragović: "The Monte Carlo SRNA-VOX code for 3D proton dose distribution in voxelized geometry using CT data", Phys. Med. Biol. 50 (2005), 1011–1017.		
3.	D. Popović, D.Todorovic, V.Spasic Jokic i G.Djuric (2008) Air Radioactivity Monitoring In Serbia, chapter 10 In: Environmental Technologies: New Developments"Environment Technologies, I-Tech Education and Publishing, ARS Journal Vienna, ISBN 978-3-902613-10-3Ed. B.O Güngür 147-166, 268 stranica		
4.	V.Spasić Jokić (2008) Positron emission tomography (PET) in Medical Imaging, Chapter 2 In: Environmental, Health and Humanity Issues in the Down Danubian Region: Multidisciplinary Approach. Ed.Dragutin Mihailovic, Mirjana Vojinovic Miloradov, World Scientific Publishing Company, decembar 2008, ISBN: 978-981-283-439-3 i 978-981-283-439-7, strane 15-24, ukupno 392 strane		
5.	D. Popovic, D. Todorovic, V. Spasic Jokic, J. Nikolic and J. Ajtic, Contents of Radionuclides in Soils in Serbia: Dose Calculations and Environmental Risk Assessment, Chapter 3 In: Advances in Environmental Research. Volume 6, Ed. Justin A. Daniels, ISBN: 978-1-61728-737-4, (2012) strane 91-134		
6.	V. Spasic Jokic. Health Risks Associated with Low Dose Ionizing Radiation, In: Risk Assessment and Management, Ed. Zhang Zhiyong, Academy Publish (2012) strane 499- 528		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)					
7.	D.Popović, T.Božić, J.Stevanović. M.Frontasyeva, D.Todorovic, V.Spasić Jokić. (2010) Concentration of trace elements in blood and feed of homebred animals in Southern Serbia. Environmental Science and Pollution Research, Vol 17 (5), ISSN 0944-1344, strane 1119-1128				
8.	A.Milatovic, O. Ciraj Bjelac, S. Ivanovic, S. Jovanovic, V.Spasic Jokic, Patient dose measurements in diagnostic radiology procedures in Montenegro, Radiation Protection Dosimetry, Radiation Protection Dosimetry, 149 (4):454-463. (2012)				
9.	Župunski Lj., Spasić Jokić V., Trobok M., Gordanić V.: Cancer Risk Assessment after Exposure From Natural Radionuclides In Soil Using Monte Carlo Techniques DOI: 10.1007/s11356-010-0344-9, Environmental Science and Pollution Research, 2010, Vol. 17, No 9, pp. 1574-1580, ISSN 0944-1344				
10.	Spasić Jokić V., Župunski Lj., Janković Lj., Gordanić V.: Effective dose estimation and lifetime cancer mortality risk assessment from exposure to Chernobyl 137Cs on the territory of Belgrade City and the region of Vojvodina, Serbia, Environmental Science and Pollution Research, 2011, Vol. 18, pp. 708-715, ISSN 0944-1344				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		23			
Total of SCI(SSCI) list papers :		13			
Current projects :		Domestic :	1	International :	1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications

Name and last name:		Stankovski V. Stevan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 23.03.1987	
Scientific or art field:		Mechatronics, Robotics and Automation and Integral Systems	
Academic carier	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1409	Intelligent Systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
6.	H1501A	Systems for Surveillance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
7.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
8.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BM116C	Motion control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	II1009	Automatic identification systems	(I10) Industrial Engineering, Undergraduate Academic Studies
13.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
14.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
15.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
16.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
17.	II1042	Automation of Continual Processes	(I10) Industrial Engineering, Undergraduate Academic Studies
18.	II1045	Systems for measurement, surveillance and control	(I10) Industrial Engineering, Undergraduate Academic Studies
19.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
20.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
21.	IM1035	Identification technologies in enterprises	(I20) Engineering Management, Undergraduate Academic Studies
22.	IM1719	Implementation of information systems in insurance	(I20) Engineering Management, Undergraduate Academic Studies
23.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
24.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
25.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
26.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies
27.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
28.	MBA414	Integrated Business Processes	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
29.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
30.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
31.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
32.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
33.	GS006	Intelligent Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
34.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
35.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
36.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
37.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
38.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
39.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
40.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies
41.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
42.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
43.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
44.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
45.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
46.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
47.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
48.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
49.	HDOL13	Motion control and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
50.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
51.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
52.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Stankovski S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Didactic Manipulator in Mechatronics and Industrial Engineering Courses, IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. 572-579, ISSN 0018-9359		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
Representative references (minimum 5, not more than 10)			
2.	Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575		
3.	Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016		
4.	Stankovski, S., Ostojić, G., Raković, M., Trajan, L., Šenk, I., Nikolić, M.: Zbirka rešenih zadataka iz: Programiranje i primena programabilno logičkih kontrolera, Fakulte tehničkih nauka, 2009		
5.	Stankovski, S., Rakić-Skoković, M., Šešlija, D., Ostojić, G.: Primena RFID tehnologije u automatizaciji		
6.	Stankovski S., Lazarević M., Ostojić G., Čosić I., Purić R.: RFID Technology in Product/Part Tracking During the Whole Life Cycle, Assembly Automation, 2009, Vol. 29, No 4, pp. 364-370, ISSN 0144-5154		
7.	Ostojić G., Lazarević M., Stankovski S., Čosić I.: RFID Technology Application in Disassembly Systems, Strojinski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 11, pp. 759-767, ISSN 0039-2480, UDK: 658.5		
8.	Popović B., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote Control of Laboratory Equipment for Basic Electronics Courses: A LabVIEW-based Implementation DOI: 10.1002/cae.20531, Computer Applications in Engineering Education, 2011, ISSN 1061-3773		
9.	Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML Robot Grasping Process Improvement, Iranian Journal of Science & Technology, 2011, Vol.35, No M1, pp. 197-207, Transactions B ISSN: 1028-6284		
10.	Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators, Iranian Journal of Science & Technology, Transactions B, 2012, Vol. 36, No M1, pp. 95-106, ISSN: 1028-6284		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		25	
Total of SCI(SSCI) list papers :		20	
Current projects :		Domestic :	3 International : 4

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Stefanović D. Čedomir	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 22.06.2004	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2012		Telecommunications and Signal Processing
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK300	Digital Modulations	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	SK300	Principles of Digital Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	BM119B	Wireless sensor networks	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	BMI102	Communication Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EK320	Principles of digital communications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK453	SCADA Systems Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK459	Wireless sensor networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	ETI11	Communication systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	ETI33	Wireless sensor networks	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	S1328P	Principles of digital modulations	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
11.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE512S	Human-Machine Speech Communication	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	S0152	Next Generation Telecommunication Networks	(S01) Postal Traffic and Telecommunications, Master Academic Studies
15.	SI027	Advanced IP Communications	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
Representative references (minimum 5, not more than 10)			
1.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705		
2.	Stefanović Č., Bajić D.: On the Search for a Sequence from a Predefined Set of Sequences in Random and Framed Data Streams, IEEE Transactions on Communications, 2012, Vol. 60, No 1, pp. 189-197, ISSN 0090-6778		
3.	Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110		
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921		
5.	Stefanović Č., Vukobratović D., Crnojević V., Stanković V.: A Random Linear Coding Scheme for Perimeter Data Gathering, 8. International Conference on Wireless On-demand Network Systems and Services - WONS, Bardonekija: IEEE, 26-28 Januar, 2011, pp. 142-146, ISBN 978-1-61284-188-5/11		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)				
6.	Stefanović Č., Bajić D.: Acquisition Times of Contiguous and Distributed Marker Sequences: A Cross-Bifix Analysis, Lecture Notes in Computer Science, LNCS, 2010, pp. 55-66, 6. Sequences and Their Applications - SETA, Paris: Springer, 13-17 Septembar, 2010, pp. 55-66, ISBN 978-3-642-15873-5			
7.	Bajić D., Stefanović Č.: Statistical Analysis of Search for Set of Sequences in Random and Framed Data, Lecture Notes in Computer Science, LNCS, 2010, pp. 320-332, 6. Sequences and Their Applications - SETA, Paris: Springer, 13-17 Septembar, 2010, pp. 320-332, ISBN 978-3-642-15873-5			
8.	Vukobratović D., Stefanović Č., Stankovic V.: Fireworks: A Random Linear Coding Scheme for Distributed Storage in Wireless Sensor Networks, 2. IEEE Information Theory Workshop ITW, Dublin: IEEE, 30-3 Avgust, 2010, pp. 1-5, ISBN 978-1-4244-8262-, UDK: 10.1109/CIG.2010.5592800			
9.	Stefanović Č., Crnojević V., Vukobratović D., Niccolai L., Chiti F., Fantacci R.: Contaminated Area Monitoring via Distributed Rateless Coding with Constrained Data Gathering, 6. ACM International Wireless Communications and Mobile Computing Conf. IWCMC, Caen: ACM, 5-8 Jul, 2010, pp. 671-675, ISBN 978-1-4503-0062-9/10			
10.	Stefanović Č., Vukobratović D., Karabenč T., Rovčanin M., Crnojević V.: On Energy Efficiency of Rateless Packet Scheme for Distributed Data Storage in Wireless Sensor Networks, 7. IEEE International Conference on Wireless On-Demand Systems and Services WONS, Kranjska Gora: IEEE, 3-5 Februar, 2010, pp. 61-65, ISBN 978-1-4244-6060-1			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	57			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Stojaković M. Mila	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.1975	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1980	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1978	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1975	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ZC006	Probability, Statistics and Random Processes	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	OM504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
7.	OM505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
8.	OML504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
9.	OML505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
11.	IAM005	Mathematical Game Theory	(F20) Engineering Animation, Master Academic Studies (OM1) Mathematics in Engineering, Master Academic Studies
12.	SD0M03	Operational Research	(GI0) Geodesy and Geomatics, Specialised Academic Studies
13.	SD0M15	Statistics	(GI0) Geodesy and Geomatics, Specialised Academic Studies
14.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
15.	D0M03	Operational Research	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	D0M04	Random Processes	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M15	Statistics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M27	StatisticsApplied in Engineering	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DAU004	Selected Chapters in Mathematics 2	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies
20.	DOM59	Fixed point theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mila Stojaković, Decomposition and representation of fuzzy valued measure, Fuzzy Sets and Systems, 112(2000) 251-256		
2.	Mila Stojaković, Fuzzy conditional expectation, Fuzzy Sets and Systems, 52(1992) 49-54		
3.	Mila Stojaković, Fuzzy random variable, expectation, martingales, J.Math.Anal.Appl., 184(1994) 594-606.		
4.	Mila Stojaković, Fuzzy martingales, Stochastic Analysis and Applications, 14(1996), 355-368.		
5.	Mila Stojaković, Zoran Stojaković, Support function for fuzzy set, Proceedings of Royal Society, London A, 452(1996), 421-438.		
6.	Mila Stojaković, Zoran Stojaković, Addition and series of fuzzy sets, Fuzzy Sets and Systems, 83(1996) 341-346.		
7.	Mila Stojaković, Representation of fuzzy valued mappings, Fuzzy Sets and Systems, 98(1998) 375-381.		
8.	Mila Stojaković, Fuzzy valued measure, Fuzzy Sets and Systems, 65(1994) 95-104 .		
9.	Mila Stojaković, Common fixed point theorems in complete metric and probabilistic spaces, Bull. Australian Math. Soc., 36(1987)73-88.		
10.	Mila Stojaković, Zoran Ovcin, Fixed point theorems and variational principle..., Fuzzy Sets and Systems, 66(1994)353-356.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		71	
Total of SCI(SSCI) list papers :		16	
Current projects :		Domestic :	1 International : 1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Stojanović M. Goran	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1998	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2005	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1996	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E122	Introduction to Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM421	Characterization and Testing of Microelectronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	BM117A	Medical electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	BM117B	Flexible electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	BM118D	Modelling and simulation of biophysical proceses	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EM457	Nanoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	P322	Introduction to Precision Engineering	(P00) Production Engineering, Undergraduate Academic Studies
9.	DE202S	Advanced characterization techniques of electronic materials and components	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE403S	Design and fabrication of passive micro and nano electronic components	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	EM512	Nanodevices and Nanomaterials	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	SI033	Electronics in medicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
15.	DE202	Advanced Techniques in Electronic Component and Material Characterization	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE403	Design and Fabrication of Passive Micro and Nano Components	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Jeranč N., Vasiljević D., Samardžić N., Stojanović G.: A Compact Inductive Position Sensor Made by Inkjet Printing Technology on a Flexible Substrate, Sensors, 2012, Vol. 12, pp. 1288-1298, ISSN 1424-8220, UDK: 10.3390/s120201288		
2.	Maksimović M., Stojanović G., Radovanović M., Malešev M., Radonjanin V., Radosavljević G., Smetana W.: Application of a LTCC sensor for measuring moisture content of building materials, Construction and Buildings Materials, 2012, Vol. 26, No 1, pp. 327-333, ISSN 0950-0618(02)00045-4, UDK: 10.1016/j.conbuildmat.2011.06.029		
3.	Radonić V., Palmer K., Stojanović G., Crnojević-Bengin V.: Flexible Sierpinski Carpet Fractal Antenna on a Hilbert Slot Patterned Ground, International Journal of Antennas and Propagation, 2012, Vol. 2012, No 980916, pp. 1-7, ISSN 1687-5869, UDK: 10.1155/2012/980916		


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>			
<p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>				
<p>Representative references (minimum 5, not more than 10)</p>				
4.	<p>Milanović M., Stojanović G., Nikolić Lj., Radovanović M., Škorić B., Miletić A.: Electrical and structural characterisation of nanostructured titania coatings deposited on interdigitated electrode system, Materials chemistry and physics, 2011, Vol. 130, No 1-2, pp. 769-774, ISSN 0254-0584, UDK: 10.1016/j.matchemphys.2011.07.061</p>			
5.	<p>Savić S., Mančić L., Vojisavljević K., Stojanović G., Branković Z., Aleksić O., Branković G.: Microstructural and electrical changes in nickel manganite powder induced by mechanical activation, Materials Research Bulletin, 2011, Vol. 46, No 7, pp. 1065-1071, UDK: 10.1016/j.materresbull.2011.03.008</p>			
6.	<p>Stojanović G., Lečić N., Damjanović M., Živanov Lj.: Electrical and temperature characterization of NiZn ferrites, INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, 2011, Vol. 35, No 3, pp. 165-176, ISSN 1383-5416, UDK: 10.3233/JAE-2011-1329</p>			
7.	<p>Goran Stojanović, Slavica Savić, Ljiljana Živanov, "Important Role of the Hall Effect Measurement System in a Modified Course of Materials in Electrical Engineering", IEEE Transaction on Education, vol. 52, no. 3, pp. 297- 304, 2009.</p>			
8.	<p>R. Raghavendra, P. Bellew, N. Mccloughlin, G. Stojanović, M. Damjanović, V. Desnica, Lj. Živanov, "Characterization of Novel Varistor+Inductor Integrated Passive Devices," IEEE Electron Devices Letters, vol. 25, no. 12, pp. 778-780, December 2004.</p>			
9.	<p>G. Stojanović, "Nanoelektronika i primena nanomaterijala", Edicija tehničke nauke - Udžbenici, FTN Izdavaštvo (338), Novi Sad, 2012.</p>			
10.	<p>G. Stojanović, Lj. Živanov, "Materijali u elektrotehnici", Edicija Tehničke Nauke - Udžbenici, FTN izdavaštvo, Novi Sad, 2007.</p>			
<p>Summary data for teacher's scientific or art and professional activity:</p>				
Quotation total :	78			
Total of SCI(SSCI) list papers :	22			
Current projects :	Domestic :	2	International :	2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Strezoski C. Vladimir	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	1985	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1978	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E129A	Power Engineering Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE0306	Analysis of PES 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE303	Analysis of PES 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE115S	Selected Chapters in Power Engineering System Analysis	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE306S	Load Management in PES	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE313S	Selected Chapters in Power Engineering	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE114S	Selected Chapters in Distribution Network Analysis	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE104	Regulation and Operation Management of Distribution Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
10.	DE115	Selected Chapters in Power Engineering System Analysis	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
11.	DE313	Selected Chapters in Power Engineering	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE114	Selected Chapters in Distribution Network Analysis	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Švenda G., Simendić Z., Strezoski V.: Advanced Voltage Control Integrated in DMS, INT J ELEC POWER, 2012, Vol. 43, pp. 333-343, ISSN 0142-0615		
2.	Strezoski V.: A New Skaling Concept in Power System Analysis Naziv časopisa: IEE Proceedings (Generation, Transmission, Distribution) , IEE Proceedings (Generation, Transmission, Distribution), 2000		
3.	Strezoski V., Bekut D.: A Canonical Model for the Study of Faults in Power Systems Naziv časopisa: IEEE Trans. On Power Systems , IEEE Trans. on Power Systems, 1991, Vol. 6, No 4, pp. 1493-1499		
4.	Bekut D., Švenda G., Strezoski V.: Compound Algorithm for Distance Relay Setting		
5.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836		
6.	Strezoski V.: Advanced symmetrical components method, IET GENER TRANSM DIS, 2011, Vol. 5, No 8, pp. 833-841, ISSN 1751-8687		
7.	Strezoski V., Švenda G., Bekut D.: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions Electrical Power		
8.	Sarić A., Čalović M., Strezoski V.: Fuzzy Multi-Objective Algorithm for Multiple Solution of Distribution Systems Voltage Control, Electrical Power		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
9.	Strezoski V., Katić N., Janjić D.: Voltage Control Integrated in Distribution Management System, Electrical Power System Research, Electrical Power System Research, 2001, No 60, pp. 85-97		
10.	Strezoski V., Trpezanovski Lj.: Three-Phase Asymmetrical Load-Flow Naziv časopisa: Electrical Power		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		46	
Total of SCI(SSCI) list papers :		12	
Current projects :		Domestic :	6
		International :	14

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Struharik J. Rastislav	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		17.06.2002	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2009		Electronics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM400A	Complex Digital System Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM408A	RF and microwave electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM420A	Modelling and simulation of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM458	System Level Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM459	Functional Verification of Hardware	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	ETI17	Complex Digital System Design	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI32	Functional Verification of Digital Electronic Systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE200S	Algorithms and Complexity-an Advanced Course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE300S	Randomised Approximation Algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE515S	Design of Complex Digital Systems - Advanced Course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EM504	Failure Resistant Digital Systems	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EM507	Application-Specific Integrated Circuit Design (ASIC)	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	SI043	Complex Digital System Design	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	EM518A	Advanced simulation techniques of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	DE200	Algorithms and Complexity-an Advanced Course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE300	Randomised Approximation Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
17.	DE515	Design of Complex Digital Systems - Advanced Course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Rastislav J.R. Struharik, Ladislav A. Novak "Intellectual property core implementation of decision trees", IET Computers&Digital Techniques, Vol. 3, Issue 3, May 2009, pp. 259-269 (M23)		
2.	Rastislav J.R. Struharik, Ladislav A. Novak "Evolving Decision Trees in Hardware", Journal of Circuits, System and Computers, Vol. 18, Issue 6, October 2009, pp. 1003-1060		
3.	Rastislav Struharik, Ladislav Novak, Alessandra Fanni, "Finding an Optimal Neural Network Structure Using Decision Trees", WSEAS Transactions on Systems, Vol. 3, Issue 2, April 2004, pp. 438-442		
4.	Ivan Mezei, Rastislav Struharik, "Design of Huffman Decoder FPGA Core", ICEST 07, Ohrid, Macedonia, June 25-27 2007		
5.	Rastislav Struharik, Ivan Mezei, "FPGA Implementation of the 2D-DCT/IDCT Core for the Motion Picture Compression", ICEST 07, Ohrid, Macedonia, June 25-27 2007		


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
Representative references (minimum 5, not more than 10)			
6.	Vuk Vranković, Rastislav Struharik, "Dizajn i verifikacija DLX procesora", Naučno-stručni simpozijum "Informacione tehnologije - Jahorina 2007", Jahorina, Bosna i Hercegovina, Mart 28-30 2007		
7.	Rastislav Struharik, Ladislav Novak, Alessandra Fanni, "Finding an Optimal Neural Network Structure Using Decision Trees", WSEAS NNA, FSFS, EC 2004 Conferences in Udine, Italy, March 25-27 2004		
8.	Rastislav Struharik, Ivan Mezei, "8051 IP Core for FPGA Applications", TELFOR 08, Beograd, Srbija, November 25-27 2008		
9.	Ivan Mezei, Rastislav Struharik, "Sistem za prenos slike za potrebe u bušotinama", TELFOR 08, Beograd, Srbija, November 25-27 2008		
10.	Ivan Mezei, Rastislav Struharik, "Sistem za prenos video signala baziran na korišćenju FPGA tehnologije", Tehnika, Beograd, Srbija		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	1 International : 1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Suvajdzin Rakić B. Zorica	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.1998	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E234	Compilers	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	ISIT12	Osnove informacionih sistema	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	SE0034	Compilers	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
8.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
10.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Rakić P., Milašinović D., Živanov Ž., Suvajdzin Rakić Z., Nikolić M., Hajduković M.: MPI-CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978		
2.	Zorica Suvajdzin, Miroslav Hajduković, A Structure Editor for the Program Composing Assistant, Computer Science and Information Systems, Volume 3, Number 1, Beograd, jun 2006., pp 65-76		
3.	Miroslav Hajduković, Zorica Suvajdzin, Žarko Živanov, Character oriented program editing - habit or necessity, Novi Sad Journal of mathematics, vol. 33, no. 1, Novi Sad, 2003., pp 53-65		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	Hajduković M., Suvajdžin Z., Živanov Ž. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics , Novi Sad Journal of Mathematics, 2003, Vol. 33, No 1, pp. 67-73, ISSN 1450-5444, UDK: 51		
5.	Rakić P., Stričević L., Suvajdžin Rakić Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad: ACM, 16-20 Septembar, 2012, pp. 217-222		
6.	Milašinović D., Živanov Ž., Rakić P., Suvajdžin Rakić Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization		
7.	Suvajdžin Rakić Z., Rakić P.: Computers and Education, 1. VIPSI, Nepoznato, 3-4 April, 2009, ISBN 86-7466-117-3		
8.	Zorica Suvajdžin, Miroslav Hajduković, Program Composing Assistant For Novice Programmers, The ASEE Mid-Atlantic Spring Conference 2006, Brooklyn NY, April 2006, abstract+5 pages (CD-ROM)		
9.	Zorica Suvajdžin, Miroslav Hajduković, Towards Program Composing Assistants, Proceedings of the 2005 International Conference on Programming Languages and Compilers, PLC'05, Las Vegas, Nevada, USA, jun 2005, pp 142-147		
10.	Rakić P., Živanov Ž., Suvajdžin Rakić Z., Stričević L., Hajduković M.: Characteristics of Operating System for Wireless Sensor Network Applications, 9. International Symposium Interdisciplinary Regional Research - ISIRR, Novi Sad, , pp. 50-50		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0


	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Šafranĳ F. Jelisaveta	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.10.2000	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
PhD thesis	2008	Faculty of Philology - Beograd	English
Magister thesis	2000	Faculty of Philology - Beograd	English
Education Specialist Thesis	1994	Faculty of Philology - Beograd	English
Bachelor's thesis	1982	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		


		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation		Power, Electronic and Telecommunication Engineering	
		UNDERGRADUATE ACADEMIC STUDIES			
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies		
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
29.	ISIT01	English Language 1	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
35.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
36.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
37.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
38.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
39.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies		
40.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
41.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
42.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
Representative references (minimum 5, not more than 10)			
1.	Analiza diskursa udžbenika engleskog jezika, Monografija, Zadužbina Andrejević, Beograd 2006.		
2.	Retorička organizacija poslovne vesti, Monografija, Zadužbina Andrejević, Beograd 2009.		
3.	Engleski jezik za GRID 3 - Academic Writing for Graphic Engineering and Design, FTN Izdavaštvo, Novi Sad 2012.		
4.	Using Internet in English Language Teaching, NEW EDUCATIONAL REVIEW, (2011), vol. 26 br. 4, str. 45-59.		
5.	Reflections of English Language Teachers Concerning Computer Assisted Language Learning (Call), NEW EDUCATIONAL REVIEW, (2011), vol. 23 br. 1, str. 269-282.		
6.	Pragmatički aspekt udžbenika engleskog jezika, Pedagogija, 2009, 1, str.133-145.		
7.	Students' Communicative Competence, Zbornik Instituta za pedagoška istraživanja, 2009, 1, str. 180-195.		
8.	Retorička analiza lida poslovne vesti, Zbornik Matice Srpske za filologiju i lingvistiku, 2011, 1, str.191-210.		
9.	Some Aspects of Technical Statements in Power Engineering, Zbornik radova, XI Međunarodni simpozijum Energetska elektronika Ee 2001, str.150-153.		
10.	Genre Analysis of Research Abstract of an Engineering Scientific Paper, In Proceedings of English Language and Literature Studies: Interfaces and Integrations, 10-12 December 2004, Faculty of Philology, Belgrade, pp.365-374.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		20	
Current projects :		Domestic :	0 International : 1

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications



Name and last name:		Šećerov E. Emil	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.09.1987	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carieer	Year	Institution	Field
Academic title election:	2009		Telecommunications and Signal Processing
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1993	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	S1329P	Introduction to Communication Networks	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	S1437P	Telekomunikacione mreže i saobraćaj	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	EK532	Telecommunication System Software	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
6.	EK535	Computer Telephone Integration	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	S0152	Next Generation Telecommunication Networks	(S01) Postal Traffic and Telecommunications, Master Academic Studies
8.	DE111	Algorithms for Digital Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Kovačević V., Popović M., Šećerov E., "Requirements for Operating Systems included in Virtual Machine System", System Science Journal, Vol 17, No. 1, 1991, pp 61-65.		
2.	Kovačević V., Popović M., Šećerov E., "Requirements for Operating Systems included in Virtual Machine System", International Conference on System Science Abstract of Papewrs, Wroclaw, 1989, pp. 108.		
3.	Šećerov E., Teslić N., Popović M., "Efficient kernel for real-time systems operating in non-deterministic enviroment", Procedeengs of the 12th International Conference on Systems Science, Volume 3, Wroclaw, Poland, 1995, pp 104-111.		
4.	Šećerov E., Popović M., Svirčević S., "Middle Level of Control for Call Processing Protocol in Telephone Exchanges", Procedeengs of the 12th International Conference on Systems Science, Volume 3, Wroclaw, Poland, 1995, pp 112-119.		
5.	Šećerov E., Popović M., Kovačević V., "Heuristic Method for Dimensining Processing Elements in Stored Program Telephone Exchange", Relectronic, 1995, 9th Symposium on Quality and Reliability in Electronics, Budapest, 1995, pp 263-268.		
6.	Kovačević V., Popović M., Šećerov E., Manojlović Z., Škrbić M., "Software Concept applied in subscriber digital concentrator ACK 2000 for Russian Telephone Network", ICT '98 International Conference on Telecommunications, Vol. IV, 1998, Porto Carras, pp 212-215.		
7.	Bender M. , Šećerov E. , Šenk V., Popov S.: "Application Gateway between Open and Legacy Systems", Eurocon 2005, The International Conference on "Computer as a tool", IEEE Region 8, November 2005, Belgrade, pp 1072-1076.		
8.	Popović M., Kovačević V., Šećerov E., "Merenje apsolutnog vremena u VMS", XIII Simpozijum o informacionim tehnologijama, Sarajevo-Jahorina, 1989, str. 114-1 – 114-4.		
9.	Šećerov E., Petković M., Jurca Ž., Djordjević S., "Pristup definisanju uslova za uključivanje OS u VMS", XXXIII Jugoslovenska konferencija ETAN, Knjiga VIII, Novi Sad, 1989, str. 1999-2005.		
10.	Petković M., Popović M., Šećerov E., "Segmentiranje magnetnog medijuma sa direktnim pristupom kap podrška sistemu virtuelnih mašina", XXXIII Jugoslovenska konferencija ETAN, Knjiga VIII, Novi Sad, 1989, str. 207-213.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	0 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Šenk I. Vojin	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.01.1987	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1992	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK462	Entrepreneurship in ICT	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK464	Communication Systems Design	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	DE310S	Encoding and Signal Transmission Techniques	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE510S	Algorithms of Signal Detection and Estimation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK533	Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EK534	Cryptography System for Data Protection	(OM1) Mathematics in Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EK536	Coding Techniques	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	RPR004	Entrepreneurship, Innovation, Knowledge Regions - Role of Universities	(RPR) Regional Development Planning and Management, Master Academic Studies
11.	DAU001	Selected Chapters in Telecommunications and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DE310	Encoding and Signal Transmission Techniques	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE510	Algorithms of Signal Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8,, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548		
2.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616		
3.	Vukobratović D., Šenk V.: Generalized ACE Constrained Progressive Edge-Growth LDPC Code Design , IEEE Communications Letters, 2008, Vol. 12, No 1, pp. 32-34, ISSN 1089-7798, UDK: 10.1109/LCOMM.2008.071457		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, no. 7, 2004, pp. 589-593.		
5.	D. Bajić, V. Šenk, M. Despotović, "Subsets of the STM-1 frame-alignment signal: a monitoring analysis", IEE Proc. Commun., vol. 149, no. 5, Oct. 2002. pp. 242-248.		
6.	Miroslav Despotović, Vojin Šenk, Bartolomeu F. Uchôa Filho, "DISTANCE SPECTRA OF CONVOLUTIONAL CODES OVER PARTIAL-RESPONSE CHANNELS", IEEE Transactions on Communications, vol. 49, no.7, pp. 1121-1124, July 2001.		
7.	Kovačević M., Šenk V.: On Possible Dependence Structures of a Set of Random Variables, Acta Mathematica Hungarica, 2012, Vol. 135, No 3, pp. 286-296		
8.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: "Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol", Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215		
9.	Bojović Ž., Šećerov E., Dobromirov D., Šenk V.: Maximizing the Profit of Telecom Telcos by a Novel Traffic Scheduling Policy, Electronics and electrical engineering, 2011, Vol. 7, No 113, pp. 67-73, ISSN 1392-1215		
10.	Bojović Ž., Šenk V., Dobromirov D., Bojović P.: Intervendor working of VOIP networks, Journal of the Institute of Telecommunications Professionals, 2011, Vol. 5, No 3, pp. 26-32, ISSN 1755-9278		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		141	
Total of SCI(SSCI) list papers :		18	
Current projects :		Domestic :	3
		International :	3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Švenda S. Goran	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Electroenergetics	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2001	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE401	Application of Computers in Power Systems 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	ESI043	Optimization Methods in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	SEI002	Architecture of Distributed Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	DE207S	Prelazni procesi i stabilnost u EES	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE216S	Computational Intelligence in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	EE501	Numerika i algoritmi	(M30) Energy and Process Engineering, Master Academic Studies
8.	EE506	Analysis of PES 3	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE560	Planiranje elektroenergetskih sistema	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	DE105S	Optimization Methods in Power Engineering - II	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE217S	PES Analysis 4	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	EE0501	Optimization Methods in Power Systems - 1	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE0516	Specialized Software in Power Systems	(ES0) Power Software Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE216	Computational Intelligence in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
15.	DE105	Optimization Methods in Power Engineering - II	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8		
2.	Švenda G., Simendić Z., Strezoski V.: Advanced Voltage Control Integrated in DMS, INT J ELEC POWER, 2012, Vol. 43, pp. 333-343, ISSN 0142-0615		
3.	Švenda G., Nahman J.: Transformer Phase Coordinate Models Extended for Grounding System Analysis, IEEE Trans. on Power Delivery, 2002, Vol. 17, No 4, pp. 1023-1029		
4.	Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215		
5.	Strezoski V., Popović D., Bekut D., Švenda G.: DMS – Basis for Increasing of Green Distributed Generation Penetration in Distribution Networks, Thermal Science, 2012, Vol. 1, No 16, pp. 189-203, ISSN 0354-9836		
6.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)				
7.	Strezoski V., Švenda G., Bekut D.: Extension of the Canonical Model Application for Calculation on Power Systems Under Fault Conditions, Electrical Power			
8.	Nahman J., Švenda G.: Power and Earthing System Modeling in Natural Coordinates, Electrical Power			
9.	Bekut D., Švenda G., Strezoski V.: Dead Zone Phenomenon in Distance Relaying of Overhead Transmission Lines, Electrical Power System Research, 2000, No 56, pp. 1-8			
10.	Nahman J., G. Svenda: Power and Earthing System Modeling in Natural Coordinates, Electrical Power And Energy Systems, ELSEVIER, 2002, No.24, pp. 541-549, ISSN 0142-0615.,			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	6	International :	14

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Teofanov Đ. Ljiljana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		18.12.1995	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2000	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1994	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A101	Mathematics	(A00) Architecture, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	GG00	Mathematical Methods 1	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI101	Algebra	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
10.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
11.	SE0009	Discrete Mathematics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		Power, Electronic and Telecommunication Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	IA022	Numerical Optimization	(F20) Engineering Animation, Master Academic Studies		
14.	D0M48	Numerical Methods for Solving Differential Equations	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
15.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Surla, K., Teofanov, Lj., Uzelac, A Robust Layer-Resolving Spline Collocation Method for a Convection-Diffusion Problem, Applied Mathematics and Computation,(2009), 208(1): 76-89				
2.	Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters II: robust finite element solution, J. Comput. Appl. Math. Vol. 212, 2008, 374-389				
3.	Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters I: solution decomposition, J. Comput. Appl. Math. Vol. 206, 2007, 1082-1097				
4.	Surla, K., Uzelac, Z., Teofanov, Lj., The discrete minimum principle for quadratic spline discretization of a singularly perturbed problem, Math. Comput. Simul. 2009, Vol. 79, No 8, pp.2490-2505				
5.	Teofanov, Lj., Zarin, H., Superconvergence for two-parameter singularly perturbed problem, BIT Numerical Mathematics, Vol. 49, No. 4, 2009, 743-765				
6.	Vulanović, R., Teofanov, Lj., A uniform numerical method for semilinear reaction-difusion problems with a boundary turning point, Numer. Algor. 54, 2010, 431-444				
7.	Teofanov, Lj., Uzelac, Z., Family of Quadratic Spline Difference Schemes for a Convection-Diffusion Problem, Int. J. Comput. Math., Vol. 84, No. 1, 2007, 33-50				
8.	Surla, K., Uzelac, Z., Teofanov, Lj., On collocation methods for singular perturbation problems of convection-diffusion type, Novi Sad J. Math, Vol. 31, No. 1, 2001, 125-132				
9.	Surla, K., Uzelac, Z., Pavlović, Lj., On collocation methods for singular perturbation problems, Novi Sad J. Math., Vol. 30, No. 3, 2000, 173-183				
10.	Čomić, I., Pavlović, Lj., Funkcije više promenljivih, Fakultet tehničkih nauka, Novi Sad, 2000, 95 str.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			12		
Total of SCI(SSCI) list papers :			7		
Current projects :			Domestic :	1	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Teslić Đ. Nikola	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Computer Engineering and Computer Communication
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E227A	Logic Design of Computer Systems 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E244	Selected Chapters in Physical Architecture Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	RT50	Television and Image Processing Software 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK465	Architectures of digital signal processors	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	SERT02	Basics of computer engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT56	Television and Image Processing Software 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT04	Selected Chapters in Computer Communications	(Z01) Safety at Work, Doctoral Academic Studies
9.	DRT04	Selected Chapters in television software	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Arhitekture i algoritmi DSP 1, Vladimir Kovačević, Miroslav Popović, Miodrag Temerinac, Nikola Teslić		
2.	Zbirka rešenih zadataka iz logičkog projektovanja. računarskih sistema I : projektovanje digitalnih sistema. Mihajlo Katona, Nikola Teslić, Vladimir Kovačević		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	Z. Šarić, S. Jovičić, V. Kovačević, N. Teslić, D. Kukolj, SYSTEM AND TECHNIQUE FOR SPEAKER LOCALIZATION USING MICROPHONE ARRAY, filed 21.november, 2006, No. P-2006/0642.		
4.	D. Kukolj, V. Kovačević, N. Teslić, I. Papp, TECHNIQUE FOR DIRECTION OF ARRIVAL ESTIMATION FROM SOUND SOURCE USING DUAL MICROPHONE SYSTEM, filed 3.november, 2006, No. P-2006/0612.		
5.	Z. Šarić, S. Jovičić, V. Kovačević, N. Teslić, I. Papp, TECHNIQUE AND SYSTEM FOR AUTOMATIC GAIN CONTROL (AGC) USING MICROPHONE ARRAY, filed 3.november, 2006, No. P-2006/0611.		
6.	Majstorović D., Čelanović I., Teslić N., Čelanović N., Katić V.: Ultra-Low Latency Hardware-in-the-Loop Platform for Rapid Validation of Power Electronics Designs, IEEE Transaction on Industrial Electronics, 2011, Vol. 58, No 10, pp. 4708-4716, ISSN 0278-0046, UDK: http://dx.doi.org/10.1109/TIE.2011.2112318		
7.	Pap I., Šarić Z., Jovičić S., Teslić N.: Adaptive microphone array for unknown desired speaker's transfer function, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 2007, Vol. 122, No 2, pp. 44-49, ISSN 10.1121/1.2749077, UDK: http://dx.doi.org/10.1121/1.2749077		
8.	Katona M., Kaštelan I., Peković V., Teslić N., Tekcan T.: Automatic black box testing of television systems on the final production line, IEEE Transactions on Consumer Electronics, 2011, Vol. 57, No 1, pp. 224-231, ISSN 0098-3063, UDK: 10.1109/TCE.2011.5735506		
9.	Pap I., Šarić Z., Teslić N.: Hands-free Voice Communication with TV, IEEE Transactions on Consumer Electronics, 2011, Vol. 57, No 2, pp. 606-614, ISSN 0098-3063, UDK: doi: 10.1109/TCE.2011.5955198		
10.	Marijan D., Zlokolica V., Teslić N., Peković V., Tekcan T.: Automatic Functional TV Set Failure Detection System, IEEE Transactions on Consumer Electronics, 2010, Vol. 56, No 1, pp. 125-133, ISSN 0098-3063, UDK: 10.1109/TCE.2010.5439135		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		6	
Current projects :		Domestic :	International :
		2	10

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Tomić J. Josif	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1995	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK301	Measurement Systems in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EOS10	Laboratory of electrical measurement	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
4.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EM456	Computers in the supervisory and control systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI28	Industrial Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI38	Optoelectronics for communication and sensors	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
13.	DE503S	Industrial Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	SI048	Measurement Systems in the Field of Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
16.	DE117S	Selected chapters from optoelectronics sensors systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
17.	DE315S	Optoelectronics sensors systems-advanced course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
18.	DE418S	Design of complex optoelectronics systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
19.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
21.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation			
	UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
22.	EM520	Industrial networks and protocols	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies	
23.	EM532	Design of electronic devices.	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies	
24.	DE503	Industrial Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies	
25.	DE117	Selected chapters from optoelectronics sensors systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
26.	DE315	Optoelectronics sensors systems-advanced course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
27.	DE418	Design of complex optoelectronics systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Poljak P., Kušljević M., Tomić J.: Power Components Estimation According to IEEE Standard 1459-2010 Under Wide-Range Frequency Deviations, IEEE Transactions on Instrumentation and Measurement, 2012, Vol. 61, No 3, pp. 636-644, ISSN 0018-9456			
2.	J. Tomić, M. Kušljević, D. Marčetić, An Adaptive Resonator Based Method for Power Measurements According to the IEEE Trial-Use Standard 1459-2000, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 250-258, February 2010.			
3.	M. Kušljević, J. Tomić, Lj. Jovanović, Frequency Estimation of Three-Phase Power System Using Weighted-Least-Square Algorithm and Adaptive FIR Filtering, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 322-329, February 2010.			
4.	Tomić J., Kušljević M., Vujičić V.: A New Power System Digital Harmonic Analyzer , IEEE Transactions on Power Delivery, 2007, Vol. 22, No 2, pp. 772-780			
5.	M. Kušljević, J. Tomić, D. Marčetić, Active power measurement algorithm for power system signals under non-sinusoidal conditions and wide-range frequency deviations, IET Generation, Transmission & Distribution, Vol. 3, No. 1, pp. 57-65, September 2008.			
6.	D. Marčetić, J. Tomić, M. Kušljević, Unbalanced 3-Phase Distribution System Frequency Estimation Using LMS Method and Positive Voltage Sequence, IET Science, Measurement & Technology, 2013. rad prihvacen za objavljivanje			
7.	Bajić J., Stupar D., Tomić J., Slankamenac M., Joža A., Živanov M.: Implementation of the Optical Beam Profiler System Using LabVIEW Software Package and Low-Cost Web Camera, 35. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroracionalima u telekomunikacijama, Opatija: MIPRO Croatian Society, 21-25 Maj, 2012, pp. 173-178, ISBN 978-953-233-069-4			
8.	Tomić J., Slankamenac M., Kušljević M., Živanov M.: A Virtual Laboratory for Teaching Frequency Estimation Techniques, 15. International Power Electronics			
9.	Stupar D., Bajić J., Slankamenac M., Živanov M., Jelić M., Joža A., Tomić J.: Influence of fiber diameter on fiber optic displacement sensor, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978-86-7892-355-5			
10.	Stupar D., Bajić J., Slankamenac M., Tomić J., Živanov M., Jelić M., Manojlović L.: Optoelectronics system for measuring light-wave attenuation in liquids, 3. Research People and Actual Tasks on Multidisciplinary Sciences, Lozenec: Printing house "Angel Kunchev" Univeristy of Rousse 8, Studentska Street, 7016 Rouse, Bulgaria, 8-10 Jun, 2011, pp. 184-188, ISBN 1313-7735			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :			46	
Total of SCI(SSCI) list papers :			6	
Current projects :			Domestic :	2 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Trpovski V. Željien	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.1985	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1991	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK435	Optical Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	EK201	Signals and Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ETI08	Telecommunication systems and signals	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
6.	S1215P	Analysis of Telecommunication signals	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	S1220P	Analysis of Telecommunication Systems	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
13.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Ispitivanje statističkih osobina digitalnog prenosa u UKT FM radio difuziji primenom sistema RDS		
2.	Uniformne i neuniformne filter banke i njihova primena u kompresiji signala slike		
3.	Ž.Trpovski, "Reliability Testing Method for RDS Based on the PI Code Statistics", IEEE Trans. on Consumer Electronics, Vol.37, No.4, November 1991., pp. 884-891.		
4.	Ž.Trpovski, "Contribution to window design for modulated lapped transforms", Electronics Letters, Vo.33, No. 24, November 1997, pp.2013-2014.		
5.	Vesna Zeljković, A. Dorado, Ž. Trpovski, E. Izquierdo, "Classification of Building Images in Video Sequences", IEE Electronics Letters, Vol. 40, No. 3, 5th February 2004, pp. 169-170.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h3 style="text-align: center;">Study Programme Accreditation</h3> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, Vol.11, No. 7, July 2004, pp.589-592.		
7.	M.Temerinac, A.Kozarev, Z.Trpovski, B.Šimšić, An Efficient Image Compression Algorithm Based on Filter Bank Analysis and Fractal Theory, Proc. of EUSIPCO-92, Sixth European Signal Processing Conference, Brussels, Vol.III, pp.1373-1376.		
8.	J.Knezevic, V.Katic, Z.Trpovski, D.Graovac: "Modulated Lapped Transforms Filter Bank Technique Application For AC/DC Converter Power Quality Analysis", Power Quality Conference - PCIM-PQ 2000, Nuremberg (Germany), June 2000, published on CD-ROM.		
9.	T.Lončar-Turukalo, V.Crnojević, Ž.Trpovski, Image Compression by Decomposition into Bit Planes, 5th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services, TELSIKS 2001, Niš.		
10.	V.Zeljko, Ž.Trpovski, V.Šenk, Improved Illumination Independent Moving Object Detection in Real World Video Sequences, 4th International Conference on Video-Image Processing and Multimedia Communications, Zagreb, Croatia, July 2003.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		14	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	1
		International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Vasić V. Veran	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.04.1995	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Power Electronics, Machines and Facilities
PhD thesis	2001	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Magister thesis	1996	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E133	Power Converters	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE304	Electric Machines 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE307	Electric Machines 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE401	Electric Machines 3	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EOS18	Industrial Protocols and Network	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
7.	F203	Electrical Machines	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
8.	H351	Electrical Machines	(H00) Mechatronics, Undergraduate Academic Studies
9.	EE424A	Power Electronic in Drive and Industry	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DE210S	Selected topics in electrical machines	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	DE210	Selected Chapters in Electric Machinery	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DOM28	Modeling and Simulation of Driving Systems	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Dumnić B., Katić V., Vasić V., Milićević D., Delimar M.: An Improved MRAS Based Sensorless Vector Control Method for Wind Power Generator" Journal of Applied Research and Technology – JART, October 2012, Center for Applied Sciences and Technological Development, National Autonomous University of Mexico (UNAM), ISSN: 1665-6423, [Online]. Available: http://www.jart.ccadet.unam.mx/volumen10_5.htm		
2.	Kulić F., Matić D., Dumnić B., Vasić V.: Optimal fuzzy controller tuned by TV-PSO for induction motor speed control, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 1, pp. 49-54, ISSN 1582-7445		
3.	Vasić V., Marčetić D., Jeftenić B., Vladan J.: Speed-Sensorless Control of Induction Motor Based on Reactive Power with Rotor Time Constant Identification, IET ELECTR POWER APP, 2010, Vol. 4, No 6, ISSN 1751-8660		
4.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445		
6.	Oros Đ., Vasić V., Marčetić D.: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components&Systems, 2008, Vol.36.No.12, pp.1318-1336.		
7.	Reljić D., Vasić V., Ostojić D., Dumnić B.: A Comparison of PI Current Controllers in Field Oriented Induction Motor Drive, Journal of Advances in Electrical and Computer Engineering, 2006, Vol. 6, No 2, pp. 46-51, ISSN 1582-7445		
8.	V. Vasić, S. Vukosavić, E. Levi, "A stator resistance estimation scheme for speed sensorless rotor flux oriented induction motor drives", IEEE Transaction on Energy conversion, vol. 18 no.4, pp. 476-483, december 2003.		
9.	V. Vasić, S. Vukosavić, "Sensorless MRAS Based Induction Motor Control with Paralelle Speed And Stator Resistance Estimation", European Transactions on Electrical Power – ETEP, Vol. 12 no.2 pp. 135-139. March/April 2002.		
10.	V. Vasić, S. Vukosavić, "Robust MRAS based algorithm for stator resistance and rotor speed identification", IEEE Power Engineering Review, vol. 21 no.11, November 2001.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		73	
Total of SCI(SSCI) list papers :		9	
Current projects :		Domestic :	International :
		3	1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Vidaković P. Milan	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		20.01.1998	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
4.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
11.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
12.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vidaković, M., Milosavljević, B., "Internationalisation of the BISIS Library Information System", Proceedings of the 28th International Unicode Conference, Orlando, USA, September 7-9, 2005.		
2.	Vidaković, M., Sladić, G., Zarić, M., "Metadata Harvesting Using Agent Technology", Proceedings of the 8th IASTED International Conference on Software Engineering and Applications (SEA 2004), Cambridge, USA, November 9-11, 2004., pp. 489-493		
3.	Vidaković M., Sladić G., Komazec S., "Sistemi za upravljanje elektronskim sadržajima i njihova promena u eUpravi", Info M: časopis za informacione tehnologije i multimedijalne sisteme, 2006., pp. 36-41, ISSN 1451-4397		
4.	Vidaković, M., Zubić, T., Milosavljević, B., Pupovac, B., Tošić, T., "Processing Bibliographic Documents in the Library Information System BISIS", Proceedings of the International Conference on Distributed Library Information Systems, Ohrid, Former Yugoslav Republic of Macedonia, June 1-6, 2004., pp. 65-91.		
5.	Vidaković, M., Sladić, G., Konjović, Z., "Security Management In J2EE Based Intelligent Agent Framework", Proceedings of the 7th IASTED International Conference on Software Engineering and Applications (SEA 2003), Marina Del Rey, USA, November 3-5, 2003., pp. 128-133.		
6.	Milosavljević B., Vidaković M., Komazec S. and Milosavljević G., "User Interface Code Generation for Data-Intensive Systems with EJB-based Data Models", In Software Engineering Research and Practice, Las Vegas, NV, USA, 2003.		
7.	Vidaković, M., Konjović, Z., "EJB Based Intelligent Agents Framework", Proceedings of the 6th IASTED International Conference on Software Engineering and Applications (SEA 2002), Cambridge, USA, November 4-6, 2002., pp. 343-348.		
8.	Vidaković M., "Agentska okruženja", Zadužbina Andrejević. Beograd, 2007, ISBN: 9-788672-446210		
9.	Milosavljević B., Vidaković M., Java i Internet programiranje, FTN izdavaštvo, 2007., ISBN 978-86-7892-047-9		
10.	Okanović D., Vidaković M., „Upotreba JMX mlet servisa za ažuriranje verzija aplikacija“, Zbornik radova YulInfo 2007 (CD), Kopaonik 2007.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		119	
Total of SCI(SSCI) list papers :		7	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Videnović-Mišić S. Mirjana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.08.1998	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM440	Computer-Aided Electronic Circuit Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM411A	Telecommunication electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM424A	Computer aided design of analogue integrated circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	ETI09	Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
5.	ETI30	Computer-Aided Electronic Circuit Design	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
6.	ETI36	Telecommunication electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	EM516	Noise in Electronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EM517	Modeling and Simulation of Semiconductor Components	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	SI013	Applied electronics in industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	SI035	Electronic Systems in Oil Industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	SI043	Complex Digital System Design	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	SI044	Computer-Aided Electronic Circuit Design	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	DE402S	Chosen areas of analogue, digital and RF integrated circuits design	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	EM510A	Advanced computer aided design of microelectronic circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	DE402	Chosen areas of analogue, digital and RF integrated circuits design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Emil V Jelenković, G S Ristić, M M Pejović, Milan M Jevtić, Shrawan K Jha, Mirjana Videnović-Mišić, M Pejović and K Y Tong: Effect of fluorination and hydrogenation by ion implantation on reliability of poly-Si TFTs under gamma irradiation , Journal of Physics D: Applied Physics, 2011, Vol. 44, No 1		
2.	Videnović-Mišić M., Jevtić M.: Impact of bias condition on 1/f noise of dual-gate depletion type MOSFET in linear region and consequences for noise diagnostic application and modelling , Microelectronics Reliability, 2008, Vol. 48, No 7, pp. 1008-1014, ISSN 0026-2714		
3.	Nađ L., Radić J., Đugova A., Videnović-Mišić M.: Ultra Low-Power Low-Complexity Tunable 3-10 GHz IR-UWB Pulse Generator, Informacije MIDEM - Journal of microelectronics, electronic components and materials, 2012, Vol. 42, No 3, pp. 185-191, ISSN 0352-9045		
4.	Mišić, M., Jevtić, M., Nađ, L., "Low-frequency noise of a dual-gate MOSFET in linear region", Journal of Automatic Control, Vol. 16, pp.: 37- 40, 2006, UDK: 621.3-52, ISSN 0354-124X, M52		
5.	Jelena Radic, Alena Djugova, Laszlo Nagy, Mirjana Videnovic-Misic, "A Low Power 3.1-7.5 GHz Tunable Pulse Generator for Impulse Radio UWB", IEEE International Symposium on Intelligent Systems and Informatics – SISY, 20 – 22 September, 2012, Subotica, Serbia, pp. 425 – 428, ISBN: 978-1-4673-4749-5 (pendrive); 978-1-4673-4748-8 (printed)		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<div style="text-align: center;"> Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>				
Representative references (minimum 5, not more than 10)				
6.	Jelena Radic, Alena Djugova, Laszlo Nagy, Kalman Babkovic, Mirjana Videnovic-Misic, "Feedback Influence on Ring Oscillator Performance for IR-UWB Pulse Generator in 0.13µm CMOS technology", IEEE International Symposium – ELMAR-2012, 12 – 14 September, 2012, Zadar, Croatia, pp. 101 – 103, ISBN 978-953-7044-13-8 (ISSN 1334-2630)			
7.	Videnović-Mišić, M., Jevtić, M. M., "Modelling of dual-gate MOSFET 1/f noise in linear region", The International Conference on "Computer as a Tool" EUROCON 2007., pp.: 1987 – 1993, September 2007, ISBN:1-4244-0813-X			
8.	Jelena Radic, Alena Djugova, Laslo Nadj, Mirjana Videnovic-Misic, "Feedback Influence on Performance of Ring Oscillator for IR-UWB Pulse Generator in 0.18µm CMOS technology", IEEE 28th International Conference on Microelectronics – MIEL, 13 – 16 May, 2012, Niš, Serbia, pp. 357 – 360, ISBN 978-1-4673-0235-7 (Proceedings), 978-1-4673-0236-4			
9.	Alena Djugova, Jelena Radic, Mirjana Videnovic-Misic, "A 0.18µm CMOS Low Power LNA for 6–8.5 GHz UWB Receiver", IEEE International Semiconductor Conference – CAS, 17 – 19 October, 2011, Sinaia, Romania, Vol. 1, pp. 215 – 218, ISBN 978-1-61284-171-7			
10.	Videnović-Mišić, M., Jevtić, M. M., "Influence of inner transistors working modes on DGMOSFET 1/f noise", 26th International Conference on Microelectronics, MIEL 2008., pp.: 557 – 560, May 2008, ISBN: 978-1-4244-1882-4			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Vujičić V. Vladimir	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1975	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1983	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK301	Measurement Systems in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMMB M	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
14.	DE103S	Measurement Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	DE304S	Measurements in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
16.	DE404S	Intelligent Measurements	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
17.	SI018	Ionizing and Non-Ionizing Radiation and Protection	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
18.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
19.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
21.	DE103	Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE304	Measurements in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
23.	DE404	Intelligent Measurements	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456		
2.	Santrač B., Sokola M., Mitrović Z., Župunski I., Vujičić V.: A Novel Method for Stochastic Measurement of Harmonics at Low Signal-to-Noise Ratio, IEEE Transactions on Instrumentation and Measurement, 2009, Vol. 58, No 10, pp. 3434-3441, ISSN 0018-9456		
3.	Antić B., Mitrović Z., Vujičić V.: Method for Harmonic Measurement of Real Power Grid Signals with Frequency Drift using Instruments with Internally Generated Reference Frequency, Measurement Science Review, 2012, Vol. 12, No 6, pp. 277-285, ISSN 1335-8871		
4.	J.J.Tomić, M.D.Kušljević, V.V.Vujičić: "A New Power System Digital Harmonic Analyzer", IEEE Trans. on Power Delivery, Vol. 22, No. 2, pp.772-780, April 2007.		
5.	Radonjić A., Vujičić V.: Integer Codes Correcting Burst Errors Within A Byte, IEEE Transactions on Computers, 2011		
6.	Radonjić A., Vujičić V.: Integer SEC-DED Codes for Low Power Communications, Information Processing Letters, 2009, Vol. 110, No 12-13, pp. 518-520, ISSN 0020-0190		
7.	V.Vujičić: "GENERALIZED LOW FREQUENCY STOCHASTIC TRUE RMS INSTRUMENT", IEEE Trans.Instrum.Meas., Vol. 50, No. 5, pp.1089-1092, October 2001.		
8.	S. S. Milovančev, V. V. Vujičić, V. A. Katić: "Improvements of On-Line Measurement in Distribution System Using a New Adding A/D Converter", IEEE Trans. on Power Delivery, Vol. 10, No. 4, pp. 1750-1756, October 1995.		
9.	I. Župunski, L. Holiček, V. Vujičić, S. Milovančev: "POWER FACTOR CALIBRATOR", IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 408-411, Apr. 1997.		
10.	V. Vujičić, I. Župunski, S. Milovančev: "PREDETERMINATION OF THE QUANTIZATION ERROR IN DIGITAL MEASUREMENT SYSTEMS, IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 439-441, Apr. 1997.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		9	
Total of SCI(SSCI) list papers :		18	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Vukmirović M. Srđan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 20.11.2000	
Scientific or art field:		Automatic Control and System Engineering	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	ESI004	Cloud Computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI008	Development of Cloud application in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
11.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
12.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation			
	UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering			
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
14.	ESI032	Smart grid applications in Cloud	(ES0) Power Software Engineering, Master Academic Studies	
15.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies	
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies	
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies	
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Kljajic, Miroslav; Gvozdenac, Dusan; Vukmirovic, Srdjan Use of Neural Networks for modeling and predicting boiler's operating performance ENERGY 2012 45 (1):304-311			
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883			
3.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679			
4.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64			
5.	D. Capko, A. Erdeljan, S.Vukmirovic, I. Lendak, A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control ISSN: 1392-124X, pp. 316 - 322			
6.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control ISSN: 1392-124X, pp. 310 - 316			
7.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836			
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456			
9.	Vukmirović S., Vujić G., Vujic B., Jovičić N., Jovičić G., Babić M.: Experimental and Artificial Neural Network approach for forecasting of traffic air pollution in urban areas: the case study of Subotica, Thermal Science - International Scientific Journal, 2010, Vol. 14, pp. 79-87, ISSN 0354-9836			
10.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		0		
Total of SCI(SSCI) list papers :		12		
Current projects :		Domestic :	2	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Vukobratović V. Dejan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.11.2003	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2008	University of Novi Sad - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BM119B	Wireless sensor networks	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI102	Communication Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EK200	Development Tools for Communications and Signal Processing 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK203	Modelling and Simulation of Communication Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK321	IP technology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	ETI21	Communication Protocols	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI23	Wireless Communications	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI31	Video Technology	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	S1329P	Introduction to Communication Networks	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
10.	DE414S	Modern Coding Theory	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE514S	Multimedia Processing and Communications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	S0152	Next Generation Telecommunication Networks	(S01) Postal Traffic and Telecommunications, Master Academic Studies
13.	SI015	Integrated Services Digital Network (ISDN)	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	SI016	Advanced ISDN Networks	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	SI027	Advanced IP Communications	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
17.	DE414	Modern Coding Theory	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
18.	DE514	Multimedia Processing and Communications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vukobratović D., Stanković V., Sejdinović D., Fagoonee-Stankovic L., Xiong Z.: Scalable Video Multicast Using Expanding Window Fountain Codes, IEEE Transactions on Multimedia, 2009, Vol. 11, No 6, pp. 1094-1104, ISSN 1520-9210, UDK: 10.1109/TMM.2009.2026087		
2.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
3.	Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110		
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921		
5.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616		
6.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548		
7.	Dejan Vukobratovic, Vojin Senk: "Generalized ACE Constrained Progressive-Edge-Growth LDPC Code Design", IEEE Communications Letters, Vol.12, No.1, pp. 32-34, January 2008.		
8.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705		
9.	Vukobratović D., Vladimir S.: Unequal Error Protection Random Linear Coding Strategies for Erasure Channels, IEEE Transactions on Communications, 2012, Vol. 60, No 5, pp. 1243-1252		
10.	Vukobratović D., Clavier L., Matthias W., Werner T., Andreas C., Kimmo K.: Adaptive Coding, Modulation and Signal Processing - in Pervasive Mobile and Ambient Wireless Communications, Heidelberg, Springer, 2012		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		9	
Current projects :		Domestic :	0
		International :	2

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		



Science, arts and professional qualifications

Name and last name:		Zdravković T. Sunčica	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Philosophy - Novi Sad 01.01.2004	
Scientific or art field:		Psychological Science	
Academic carieer	Year	Institution	Field
Academic title election:	2009		Psychological Science
PhD thesis	2002	Rutgers University - Newark, New Jersey	Psychological Science
Magister thesis	2000	Rutgers University - Newark, New Jersey	Psychological Science
Bachelor's thesis	1994	Faculty of Philosophy - Beograd	Psychological Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EI303	Cognitive Processes for Engineers	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	FDS222	Lightness and Colour Perception	(F00) Graphic Engineering and Design, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Zdravković, S., Milin, P (2006). "The underlaying distribution of lightness matches". Fechner's days Proceedings.		
2.	Zdravković, S., Economou, E and Gilchrist, A (2006). Lightness of an object under two illumination levels. Perception. Vol. 35 (1185-1201).		
3.	Stojanović R., Zdravković S. (2007) Mentalna eksploracija distanci na mapama i u realnom prostoru. Psihologija, 40, 1, (93-111)		
4.	Stevanov, Z., Zdravković. S. (2007) Prepoznavanje identiteta na osnovu pojedinih delova lica. Psihologija, 40, 1, (37-57)		
5.	S. Zdravković: "Opažanje dubine u pokretnim dvodimenzionalnim stimulusima" (2003). Psihologija, vol. 36 (3)		
6.	S. Zdravković: Analysis of depth percepts induced by mobile two-dimensional stimuli (2002). Psihologija, Vol. 35 (br. 3-4)		
7.	S. Zdravković: "Influence of edge sharpness depends on the number of illumination levels", ECVP, Budimpešta, Madjarska, 2004; Perception (Supplement Vol. 33; 113b)		
8.	S. Zdravković, A. Gilkristom: "Computation of illumination level in human vision", Psychonomics Society, Vancouver, Canada, 2003;		
9.	S. Zdravković: "Effects of illumination edge position and sharpness on lightness", Symposium on Perception and Cognition, Trst, Italija, 2003;		
10.	S. Zdravković: "Spotlight size determines lightness; publikovano u Perception", ECVP, Pariz, Francuska, 2003, Supplement Vol. 32; 150a;		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		4	
Total of SCI(SSCI) list papers :		7	
Current projects :		Domestic :	1 International : 1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES		
	Power, Electronic and Telecommunication Engineering		

Science, arts and professional qualifications



Name and last name:		Zuković M. Miodrag	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.12.1995	
Scientific or art field:		Mechanics	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Mechanics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
2.	M103	Mechanics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	M107	Mechanics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
4.	M201	Mechanics 3	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	M4301	Computer Methods in Mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
10.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
11.	M45021	Computer Methods in Mechanics 2	(M40) Technical Mechanics and Technical Design, Master Academic Studies
12.	DTM01	Computer Methods in kinematics and dynamics of mechanical systems	(M40) Technical Mechanics, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Zukovic, M. and Cveticanin, L.: Chaotic Responses in a Stable Duffing System of Non-ideal Type, Journal of Vibration and Control, 2007, Vol. 13, No. 6, str. 751- 767, ISSN 10775463.		
2.	Zukovic,M., Cveticanin,L., Chaos in non-ideal mechanical system with clearance, Journal of Vibration and Control , 15(8): 1229–1246, 2009		
3.	Miodrag Zuković, TORZIONE PARAMETARSKE OSCILACIJE CILINDRIČNOG ZUPČASTOG PARA SA EVOLVENTNIM OZUBLJENJEM, Magistarska teza, Novi Sad, 2000.		
4.	Zuković,M., Nelinearne TORZIONE OSCILACIJE U ZUPČASTIM PRENOSNICIMA, VII Međunarodna konferencija fleksibilne tehnologije MMA 2000, Novi Sad, 08.juna 2000.		
5.	Zuković, M., Radomirović, D. Kuzmanović, S.: Analiza uticaja rasporeda zupčanika na dinamiku dvostepenog reduktora, Drugi skup o konstruisanju, oblikovanju i dizajnu KOD 2002, Novi Kneževac, Maj 2002, str. 141-144.		
6.	Radomirović, D., Zuković. M., Gligorić, Radojka: Uticaj ubrzanja, nagiba i mase prikolice na kretanje traktora, Traktori i pogonske mašine, Vol.7, No.4, Novi Sad, Decembar, 2002, str.57-61.		
7.	Zuković, M., Radomirović, D. Rakarić, Z.: Nelinearne oscilacije u mehaničkim sistemima sa zazorom, VIII MEĐUNARODNA KONFERENCIJA FLEKSIBILNE TEHNOLOGIJE, MMA 2003., Novi Sad, Srbija i Crna Gora, 26-27. Jun 2003.		
8.	Radomirović, D., Maretić, R., Zuković. M.: UNUTRAŠNJE KOORDINATE RAVANSKIH KRIVIH U MEHANICI, Letopis naučnih radova, Godina 27(2003), broj 1, strana 119-127		
9.	Radomirović, D., Gligorić, Radojka, Zuković. M.: Kretanje traktora sa jednoosovinskom prikolicom, Traktori i pogonske mašine, Vol.8, No.4, Novi Sad, Novembar, 2003, str.124-129.		
10.	M. Zuković and Z. Rakarić : Steady state vibration of mechanical system with electric motor and nonlinear spring, Book of Abstracts, The First International Conference on COMPUTATION MECHANICS, Belgrade (CM'04), Serbia and Montenegro, November, 15-17, 2004., 31		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		7	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Živanov D. Ljiljana	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.03.1976	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1989	School of Electrical Engineering - Beograd	Electronics
Magister thesis	1980	School of Electrical Engineering - Beograd	Electronics
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E222A	Electronics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	EM303	Microelectronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	H110	Materials in Electrical Engineering	(H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BM117C	MEMS and NEMS	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	DE101S	Contemporary microelectronic technologies and materials	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE502S	Micro-sensors and MEMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EM517	Modeling and Simulation of Semiconductor Components	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	SI014	Microelectronic technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	SI024	Application of Sensors and Actuators	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	BMIM1D	Application of MEMS and NEMS in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
14.	EM519	Sensors, actuators, MEMS and NEMS	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	DE101	Contemporary Microelectronic Technologies and Materials	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE502	Micro-sensors and MEMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	R. Raghavendra, P. Bellew, N. Mcloughlin, G. Stojanović, M. Damjanović, V. Desnica, Lj. Živanov, "Characterization of Novel Varistor+Inductor Integrated Passive Devices," IEEE Electron Devices Letters , vol. 25, no. 12, pp. 778-780, 2004.		
2.	G.Stojanović, M. Damjanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. Mcloughlin, "High performance zig-zag and meander inductors embedded in ferrite material," Journal of Magnetism and Magnetic Materials, vol. 297/2, pp. 76-83, 2006.		
3.	M.Damjanović, G. Stojanović, Lj. Živanov, V. Desnica, "Comparison of different structures of ferrite EMI suppressors," Microelectronics International, vol. 23, no. 3, pp. 42-48, September 2006.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	M.Damnjanović, G. Stojanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. McLoughlin, "Analysis, design and characterization of ferrite EMI suppressors," IEEE Transactions on Magnetics (impact factor: 0.837), vol. 42, no. 2, pp. 270-277, 2006.		
5.	G. Stojanović, Lj. Živanov, "Novel efficient method for inductance calculation of inductors with optimized layout," International Journal of RF and Microwave Computer-Aided Engineering, vol. 16, no. 5, pp. 463-469, September 2006		
6.	V. Desnica, Lj. Živanov, O. Aleksić, "The modeling and design of symmetrical thick film EMI/EMC cells", Studies in Applied Electromagnetics and Mechanics: Electromagnetic Fields in Electrical Engineering, vol. 22, pp. 395-400, IOS Press, Amsterdam, 2002		
7.	V. Desnica, Lj. Živanov, M. Nimrihter, O. Aleksić, M. Luković: "A Comparative Characteristics of Thick Film Integrated LC Filters", IEEE Transactions on Instrumentation and Measurement - IMTC Special Issue, Vol. 51, No. 4, pp. 570-576,		
8.	V. Desnica, Lj. Živanov, O. Aleksić, S. Jenei: "Modeling and optimization of thick film solenoid-bar type inductors and transformers", COMPEL (Computation and Mathematics in Electrical and Electronic Engineering), Vol. 19, No. 2, pp. 615-621, 2000		
9.	P.M.Nikolić, M.B.Pavlović, Z.Maričić, S.Djurić, Lj.Živanov, D.Samaras, G.A.Gledhill, "Low temperature far-infrared complete reflectivity spectra of single crystal Ba hexaferrite", Infrared Physics, vol. 33, No.5, Pergamon Press, G.B., pp.401-408, 1992		
10.	P.M.Nikolić, Lj.D.Živanov, O.S.Aleksić, D.Samaras, G.Gledhil, J.Collins: "Far infrared optical properties of single crystal Ba- and Sr- hexaferrite", Infrared Physics, Vol.30,		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		48	
Total of SCI(SSCI) list papers :		12	
Current projects :		Domestic :	1 International : 3

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications



Name and last name:		Živanov B. Miloš	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.04.1994	
Scientific or art field:		Electronics	
Academic carieer	Year	Institution	Field
Academic title election:	2004	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1992	School of Electrical Engineering - Beograd	Electronics
Magister thesis	1978	School of Electrical Engineering - Beograd	Electronics
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Physics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EM414	Optoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM301A	Analog Microelectronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EM430A	Control and process electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EM444B	Applied electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	DE201S	Selected Chapters in Optoelectronics and Photonics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	DE503S	Industrial Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
8.	H1402	Digital Controlling Electronics	(H00) Mechatronics, Master Academic Studies
9.	SI013	Applied electronics in industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	SI035	Electronic Systems in Oil Industry	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	BMIM1A	Applications of lasers in medicine	(BM0) Biomedical Engineering, Master Academic Studies
12.	DE117S	Selected chapters from optoelectronics sensors systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE315S	Optoelectronics sensors systems-advanced course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE418S	Design of complex optoelectronics systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	EM435A	Electronic Systems in Oil Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	EM437A	The application of electronic systems in clean and renewable energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	EM439A	Electronics in veichles	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	EM521	Applied optoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
19.	EM523	Applied electronics in industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	DE201	Selected Chapters in Optoelectronics and Photonics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE503	Industrial Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
22.	DE117	Selected chapters from optoelectronics sensors systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>		
<h2 style="margin: 0;">Study Programme Accreditation</h2>			
<p>UNDERGRADUATE ACADEMIC STUDIES</p>		<p>Power, Electronic and Telecommunication Engineering</p>	
<p>Representative references (minimum 5, not more than 10)</p>			
1.	Šašić B., Živanov M., Lazić M.: Desing of Multiphase Boost Converter for Hybrid Fuel Cell/Battery Power Sources, Beč, Jatin Nathwani and Artie Ng (Ed.), 2010, str. 1-51, ISBN 978-953-307-401-6		
2.	Manojlović L., Živanov M.: White-Light Interferometric Sensor for Rough Surface Height Distribution Measurement, IEEE Sensors Journal, 2010, Vol. 10, No 6, pp. 1125-1132, ISSN 10.1109/JSEN.2007.90		
3.	Slankamenac M., Lukić-Petrović S., Živanov M., Čajko K.: Electrical switching behavior of bulk $Cu_x(AsSe_{1.410.2})_{100-x}$ glasses: Composition dependence and topological effects, SOLID STATE COMMUN, 2012, Vol. 152, No 13, pp. 1160-1163, ISSN 0038-1098		
4.	Sekulić D., Satarić M., Živanov M.: Symbolic Computation of Some New Nonlinear Partial Differential Equations of Nanobiosciences Using Modified Extended Tanh-function Method, Applied Mathematics and Computation, 2011, Vol. 218, No 7, pp. 3499-3506, ISSN 0096-3003		
5.	Stupar D., Bajić J., Manojlović L., Slankamenac M., Joža A., Živanov M.: A Wearable Low-Cost System for Human Joint Movements Monitoring Based on Fiber-Optic Curvature Sensor, IEEE Sensors Journal, 2012, ISSN 10.1109/JSEN.2007.90		
6.	Manojlović L., Živanov M.: Spectrally Resolved White-Light Interferometric Sensor for Absolute Position Measurement Based on Hilbert Transform, IEEE Sensors Journal, 2012, Vol. 12, No 6, pp. 2199-2204, ISSN 10.1109/JSEN.2007.90		
7.	Bajić J., Stupar D., Manojlović L., Slankamenac M., Živanov M.: A simple, low-cost, high-sensitivity fiber-optic tilt sensor, Sensors and Actuators A: Physical, 2012, Vol. 185, pp. 33-38, ISSN 0924-4247		
8.	Manojlović L., Živanov M., Slankamenac M., Bajić J., Stupar D.: High-speed and high-sensitivity displacement measurement with phase-locked low-coherence interferometry, APPL OPTICS, 2012, Vol. 51, pp. 4333-4342, ISSN 0003-6935		
9.	M.B. Živanov, "Elektronika - elektronske komponente i kola - analiza i projektovanje", 2001. Univerzitet u Novom Sadu, Fakultet tehničkih nauka, No. 129, Novi Sad, str. 651. 2001.		
10.	G.Mančić, S.Martinović, M.Živanov, "Karotazna merenja - osnovni fizički principi", 2002.		
<p>Summary data for teacher's scientific or art and professional activity:</p>			
Quotation total :		32	
Total of SCI(SSCI) list papers :		23	
Current projects :		Domestic :	2 International : 2

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering</p>	
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Science, arts and professional qualifications

Name and last name:		Župunski Ž. Ivan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		14.10.1974	
Scientific or art field:		Electrical Measurements	
Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1981	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1973	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E140	Measuring in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EI408	Project Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	DE204S	Selected topics in metrology	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	SI023	Measurement and processing of the results	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	SI039	Metrology	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE204	Selected Chapters in Metrology	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	S. Avramov, I. Župunski: "An AC Comparator for Audio Frequency Waveforms", IEEE Trans. Instrum. Meas., vol. IM-40, pp. 373-376, Apr. 1991.		
2.	I. Župunski, L. Holiček, V. Vujičić, S. Milovančev: "Power Factor Calibrator", IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 408-411, Apr. 1997.		
3.	V. Vujičić, I. Župunski, S. Milovančev: "Predetermination of the Quantization Error in Digital Measurement Systems, IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 439-441, Apr. 1997.		
4.	V. Vujičić, S. Milovančev, M. Pešaljević, D. Pejić, I. Župunski: "Low Frequency Stochastic True RMS Instrument", IEEE Trans. Instrum. Meas., vol. IM-48, No.2, pp. 467-470, Apr. 1999.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication Engineering </div>		
Representative references (minimum 5, not more than 10)			
5.	M. Pešaljević, I. Župunski: "Komparacija električnih mernih etalon-uređaja", Savezni zavod za mere i dragocene metale, naučna knjiga, 339 strana, Beograd, 1981.		
6.	I. Župunski, P. Miljanić: "AC Power Calibrator with a Precision Digital Wattmeter in Feedback Loop", IEEE Trans. Instrum. Meas., vol IM-36, pp.354-356, June 1987.		
7.	I. Župunski, P. Miljanić: "AC Power Calibrator with a Precision Digital Wattmeter in the Feedback Loop", Conference on Precision Electromagnetic Measurements CPEM "86, CPEM"86 Digest, Editor: Ronald F. Dziuba, pp. 23-24, Gaithersburg, 1986.		
8.	S. Avramov, I. Župunski: "One AC Comparator", Conference on Precision Electromagnetic Measurements CPEM "90, CPEM"90 Digest, Editor: Gary R. Hanes, pp. 74-75, Ottawa, 1990.		
9.	S. Milovančev, V. Vujičić, V. Katić, I. Župunski: "An Intelligent Multichannel Converter of AC Electrical Power and/or Voltage and Current RMS Values", Proceedings of IEEE International Symposium on Industrial Electronics ISSIE "95, pp. 138-142, Athens, Greece, 1995.		
10.	V. Vujičić, I. Župunski, S. Milovančev: "General Method for Quantization Error Predetermination in Digital Measurement System", Conference on Precision Electromagnetic Measurements CPEM "96, CPEM"96 Digest, pp.49-50, Editor: Andreas Braun, Braunschweig, Jun. 1996.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		11	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	International :
		2	0



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students' number are to be provided. Lectures are held in amphitheatres, classrooms and specialized computer or measurement laboratories (between 12 and 20 work places) which are equipped with contemporary equipment where students experimentally prove and deepen the matter taught in lectures. Library is within the Faculty of Technical Sciences building, and has more than 250 bibliographic units which are relevant for this study programme. All courses within the study programme are accompanied by adequate textbook literature, teaching aids and props available for normal teaching process.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Power, Electronic and Telecommunication
Engineering

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. At the Faculty of Technical Sciences there is a perennial positive practice of interviewing students through questionnaire.

The quality control of the study programme is performed through following activities: (a) interviewing students by questionnaire at the end of the lectures for the given course, (b) interviewing graduated students by questionnaire about study programme quality and logistic support to the studies at the diploma awarding ceremony, (c) interviewing students by questionnaire about evaluation of logistic support to the studies at the certification of the study year, (d) interviewing students by questionnaire when enrolling to the year of study. Students assess study programme of the previously completed school year, (e) interviewing lecturing and non-lecturing staff by questionnaire about quality of the study programme and logistic support to the studies.



Study Programme Accreditation
UNDERGRADUATE ACADEMIC STUDIES Power, Electronic and Telecommunication
Engineering

Standard 12. Distance Education

Distance learning is not available within this study programme.