STUDY PROGRAMME ACCREDITATION MATERIAL:

MEASUREMENT AND CONTROL ENGINEERING

UNDERGRADUATE ACADEMIC STUDIES

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Prevod sa srpskog jezika:

Jelisaveta Šafranj

Ivana Mirović

Marina Katić

Vesna Bodganović

Dragana Gak

Ličen Branislava

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Programme name	Measurement and Control 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, proffesional or art field	Electrical and Computer Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	241-252
Academic degree, abbreviation	Bachelor with Honours in Electrical and Computer Engineering, B.El.Comp.Eng.
Study length	4
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	240
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	
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00. Introduction

The study programme Measurement and Control 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.

Students who successfully complete this study programme obtain a diploma in Electrical and Computer Engineering with the title of the study programme Measurement and Control Engineering, as well as information on particular competences that the students obtain during their studies.

The current state and, especially, trends in the development of electrical and computer engineering, especially in the field of measurement and control, form the basis for defining the structure and content of the study programme. For that reason a number of subjects at the lower years of study is defined in such a way to provide the necessary general and theoretical knowledge, as well as basic skills that lead the student to practical application of gained knowledge. Good balance between knowledge and skills at lower years provides good base for subjects at higher years, which are devoted primarily to specialized courses which are aimed at providing professional and applied knowledge in the narrow fields of interest. Acquired knowledge and skills enable graduate students to successfully answer to the demands of the market and knowledge-based economy in the field of modern electrical and computer engineering. Particular knowledge and skills in fields of measurement and control engineering provide students after completing the programme to easily adapt to the industrial process in the field of measurement and control without additional courses in the company. At the same time, graduate students from this programme have good basic knowledge for higher levels of education on study programmes that follow this or similar programmes.

Lectures in professionally applied and scientific-professional subjects are carried out by teachers from the Department of the Power, Electronics and Telecommunications Engineering, which is responsible for the study programme, and Department of Computing and Control Engineering at the Faculty of Technical Sciences in Novi Sad. 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.

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.

Students of this programme have obligatory and elective courses. 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. A large number of laboratory practice in the professional subjects provides students to acquire practical knowledge needed to continue the career, as well as through joint work on the project and acquire the knowledge and skills that are not strictly professional, such as group work, project management, managing a group of people and so on.
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.

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 Measurement and Control 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.

Standard 03. Programme Goals

The objectives of the study programme can be classified in the following categories:
Technical knowledge: Acquiring the necessary knowledge in the field of electrical and computer engineering combined with the knowledge of mathematics, physics and selected social studies. The programme ensures the in-depth knowledge in measurement suystems, automatic control and power drives.
Practical knowledge: The focus of this program is placed on practical knowledge in identifying technical issues, terms of project requirements and formulating a plan for the implementation and resolution of technical problems using skills and knowledge in various areas. Engineers who complete their studies in this program of study will be competent in the design and development of complex measurement and regulation systems and their component parts, and will be trained for later master's and doctoral studies and monitoring of rapid technological development in the field of electrical engineering and computer science.
Communicative skills and team work. Acquiring the necessary knowledge and skill in at least one world language with the ability to present one's results to the professional and wider audience as well as developing the team work skills. Subjects in the field of project management will provide ability of critical thinking, understanding the importance of preparation, leadership roles in the team, and each participant for the timely completion of the project.
Preparation for further studies: 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. Acquiring the necessary knowledge which will enable the continuation of student's education at graduate, specialization or doctoral level.

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 engineering, especially in measurement and control systems that include wide area from measurement of electrical and nonelectrical quantities, data processing, automation and control to control of power drives.
Electrical and computer engineers who have completed Computing and Control Engineering study programme have the competence to solve real life problems in practice as well as to continue education if they decide to do so. Their competences include, primarily, critical thinking, the ability to analyze a problem, synthesize a solution, predict the behaviour of the chosen solution with the clear idea of the advantages and disadvantages of the chosen solution.
Students who successfully complete the study programme in the field of measurement and control engineering 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.

Standard 05. Curriculum

The curriculum of the undergraduate academic studies Measurement and Control 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.

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-Nađ 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

Table 5.2 Course specification

Course:		Introduction to laboratory practice
Course id:	MR0ULR	
Number of ECTS:	3	
Teachers:		Bojković J. Gordana, Mitrović Lj. Zoran, Pejić V. Dragan
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
1	0	1	0	2

Precondition courses None

1. Educational goal:

Acquisition of basic knowledge about the work in laboratory for electrical measurements.

2. Educational outcomes (acquired knowledge):

Student should use the acquired knowledge in further education. The student will learn to work in the lab. Gaining basic knowledge of experimental work.

3. Course content/structure:

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. Serial, parallel and equivalent networks. Linear potentiometer and a fixed source. Logarithmic potentiometer and a fixed source. Determination of internal resistance of the real voltage source. Thevenin's theorem. The current source and the variable resistors, linear and logarithmic. Fine-tuning of the desired resistance in three ways. Current divider. Voltage divider. Amplitude and phase diagrams. Integrator and differentiator in pulse mode. Temperature measurements using a thermosensitive resistor.

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

Table 5.2 Course specification

Course:		Discrete Mathematics and Linear Algebra
Course id:	E213	
Number of ECTS:	9	
Teachers:		Doroslovački D. Rade, Mihailović P. Biljana, Lukić J. Tibor, Pantović B. Jovanka
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:

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 In practice classes 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	30.00
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Rade Doroslovački	Elementi opšte i linearne algebre	ALFA-GRAF NS	2006
2,	Rade Doroslovački i Nedović Ljubo	Zbirka ispitnih zadataka iz diskretne matematike 1985-2006	ALFA-GRAF NS	2006
3,	Rade Doroslovački i Nedović Ljubo	Testovi iz diskretne matematike i linearne algebre	ALFA-GRAF NS	2004
4,	Rade Doroslovački	Principi algebre, opšte, diskretne i linearne	ALFA GRAF NOVI SAD	2008

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, Šafranj 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

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 Cvetićanin	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

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-Nađ 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

Table 5.2 Course specification

Course:		Mathematical Analysis 1		
Course id:	E102			
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:
4	4	0	0	0
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 diferncijalni račun, obične diferencijalne jednačine	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
3,	M. Novković, B. Carić,S.Medić,V.Ćurić, I.	Zbirka rešenih zadataka iz Matematičke analize 1	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
4,	I.Kovačević,B.Carić,S.Medić, V.Ćurić	Testovi ispita iz Matematičke analize 1	FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012

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

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, Šafranj 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

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 Brogile 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

Table 5.2 Course specification

Course:		Introduction to Electronics
Course id:	E122	
Number of ECTS:	7	
Teacher:		Stojanović M. Goran
Course status:		Mandatory

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

Table 5.2 Course specification

Course:		Mathematical Analysis 2
Course id:	E221A	
Number of ECTS:	8	
Teachers:		Stojaković M. Mila, Adžić Z. Nevenka, Lukić J. Tibor, Pantović B. Jovanka
Course status:		Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	3	0	0	1

Precondition courses None

1. Educational goal:

Ability of abstract thinking and acquiring basic knowledge in the field of mathematical analysis.(array theory, integral functions of several variables, complex analysis, Fourrier and Laplace transforms)Ability of abstract thinking and acquiring basic knowledge in the field of mathematical analysis.(array theory, integral functions of several variables, complex analysis, Fourrier and Laplace transforms)

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, Fourrier and Laplace transforms) in further education and professional courses.

3. Course content/structure:

Number series, definitions and basic characteristics. Function sequences and 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. Fourrier series and transform. Laplace and inverse Laplace transform with applications.

4. Teaching methods:

Lectures; Numerical computing practice. Consultations. Lectures are combined. In lectures, theoretical part of the course 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 4 modules (the first module: array, the second module: integral function of several variables, the third module: complex analysis, the fourth module: Fourrier and Laplace transforms). 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	Coloquium exam	No	25.00
Test	Yes	15.00	Coloquium exam	No	20.00
Test	Yes	15.00	Oral part of the exam	Yes	20.00
			Practical part of the exam - tasks	Yes	45.00

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 ispitaiz matematička analiza 2	FTN,Novi Sad	2003

Table 5.2 Course specification

Course:		Electrical and electronic measurements in industry		
Course id:	EIEEMI			
Number of ECTS:	8			
Teachers:		Bojković J. Gordana, Župunski Ž. Ivan		
Course status:		Mandatory		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	1	0	2
Precondition courses		None		

1. Educational goal:

Acquiring knowledge in the field of electrical and electronic measurements, especially in industrial environment.

2. Educational outcomes (acquired knowledge):

good knowledge and understanding of the use, operation principles and the structure of electrical measuring instruments, gain experience and training in the field of analysis of electrical measurements' data, the ability to search the literature and other forms of information in the field of electrical measurement and capability to present the research results.

3. Course content/structure:

Physical quantities and measurement units. Electrical measuriement instruments. Electromechanical measuring instruments. Instruments with moving coil. Extending the measuring range of the instrument with the moving coil. Extending the measurement range of measuring instruments. Electronic measuring instruments. Electrical measurement of non-electrical quantities. Measurement systems. Measuring accesories. Counter-timer. Counting. Measuring time intervals. Measuring frequency and period. Frequency ratio measurements. Phase difference measurement. Digital-to-analog converters. Function generators. Analog-to-digital converters. Digital multimeters. Oscilloscopes. Time bases. Multi-channel oscilloscopes. Digital oscilloscopes. Scope probes. Measurement signal parameters using oscilloscope. Measuring bridges. DC measuring bridges. Wheatstone bridge. Kelvin bridge. Unbalanced Wheatstone bridge. AC measuring bridge. Measuring bridges with multiple sources. Measuring compensators. DC measuring compensators. Measurement of electrical current, voltage, resistance, impedance, power, capacitance and inductance. General characteristics of the measuring instruments. The static characteristics. Sensitivity. Linearity. Resolution. Measuring range / span. Scale / pointer hand / display. Input / output impedance. Accuracy. Stability. Normal / border / reference conditions. Instrument marking. Dynamic characteristics. Processing of the measurement results. Measurement error. Blunders. Systematic errors. Random error. Measurement uncertainty. Standard measurement uncertainty. Combined uncertainty. The expanded measurement uncertainty. Measurement information. Quality of measurement 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	40.00
			Oral part of the exam	Yes	30.00

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
3,	S. Tumanski	Principles of Electrical Measurement	Taylor & Francis	2006
4,	Alan S. Morris	Measurement & Instrumentation Principles	Butterworth-Heinemann, Oxford	2001
5,	Walt Kester	Practical Design Techniques for Sensor Signal Conditioning	Analog Devices	1999

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, Šafranj 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:

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

Table 5.2 Course specification

Course:		System Modeling and Simulation
Course id:	E232	
Number of ECTS:	8	
Teachers:		Erdeljan M. Aleksandar, Čapko Lj. Darko, Vukmirović M. Srđan
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:

Mastering theoretical and practical basics of system 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 understanding of professional courses

3. Course content/structure:

Place and role of modelling and simulation, practical applications. Theory of modelling and simulation. Mathematical models of time continuous systems. Examples of model forming: mechanical, thermal, hydrodynamic, electrical and electro-mechanical systems. Analogies between size and parameters. Electromechanical analogies. Model linearization. Simulation on analogue / hybrid computer. Simulation languages. Simulation on digital computer (Matlab/Simulink); Mathematical and simulation models of time discrete systems. System identification. Parameter identification. Example artificial neural networks.

4. Teaching methods:

Lectures; Numerical – calculation practice. Computer practice. Laboratory practice. consultations.
The examination is written and oral. The written part consists of at least four tasks, in order to pass the examination a students must successfully complete at least 50% of each task. The course material can be divided into two colloquia. The oral part of the examination is based on a list of examination questions. The colloquia, tests and examination are written. The written part is eliminating. The final grade is formed on the basis of colloquia, homework assignments, written and oral part of the examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	5.00	Coloquium exam	No	20.00
Complex exercises	Yes	5.00	Coloquium exam	No	20.00
Complex exercises	Yes	5.00	Oral part of the exam	Yes	30.00
Complex exercises	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	A. Erdeljan, D. Čapko	Štampani materijal koji pokriva predavanja i vežbe		2005
2,	Latinka Ćalasan, Menka Petkovska	MATLAB i dodatni moduliControl System Toolbox i SIMULINK	Mikro knjiga, Beograd	1995
3,	Duane Hanselman, Bruce Littlefield	Mastering MATLAB 6 - A Comprehensive Tutorial and Reference	Prantice Hall, ISBN: 0-13-019468-9	2001
4,	C.M.Close, D.K.Frederick, J.C.Newell	Modeling and Analysis of Dynamic Systems	John Wiley & Sons, Inc.	2002

Table 5.2 Course specification

Course:		Introduction to Programming		
Course id:	SE0001			
Number of ECTS:	7			
Teachers:		Ivanović V. Dragan, Marković -. Milan, Milosavljević P. Branko, Nenadić M. Goran		
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:

Understanding the concepts, elements, and structure of computer programs, and basic algorithms for data processing.

2. Educational outcomes (acquired knowledge):

Upon successful completion of this course students gain understanding of main computer program concepts and are able to write programs that interact with users; handle different types of data; use basic structural concepts in programming - sequences, selections, and iterations; use subprograms and decompose complex programs; understand elements of software development process; understand elements of algorithm analysis.

3. Course content/structure:

The notion of a computer program: the role of hardware and software in a computer system; basics of modern computer operation; the form and function of programming languages; features of the Python programming language; elements of a Python program. Handling numbers: the notion of a data type; numerical data types; representing numbers in a computer; accumulator variables; using mathematical functions. Handling strings: the notion of string and its computer representation; operations on strings; string formatting. Decision structures: the notion of decision; single, double, and n-ary decisions; handling exceptions. Loops and logical expressions: the notion of a loop; finite and infinite loops; interactive and sentinel loops; nested loops; Boolean algebra and Boolean expressions. Subprograms: program decomposition; invoking subprograms; transfering parameters and results; subprogram collections; recursion. Data collections: arrays, operations on arrays, multidimensional arrays; dictionaries. Software development process: representing a real system in a computer program; top-down and spiral development, program testing. Algorithm analysis: concepts, the notion of search, linear and binary search, sorting algorithms.

4. Teaching methods:

Lectures; Computer practice. Consultations. The examination is oral. The final grade is formed on the bases of success at laboratory practice and oral examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	J.M. Zelle	Python Programming: An Introduction to Computer Science, 2nd edition	Franklin, Beedle & Associates	2010

Table 5.2 Course specification

Course:		Electromechanical materials		
Course id:	ZC003			
Number of ECTS:	7			
Teacher:		Gerić D. Katarina		
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:

Obtaining new knowledge from the field od materials science and materials applied in electroenergetic plants and mechanical engineering.

2. Educational outcomes (acquired knowledge):

Obtained knowledge is applied in relating the materials structure and properties, as well as application in various engineering devices and plants, including materials selection for achieving an increased effectiveness.

3. Course content/structure:

Introduction to materials science. property dependance from atomic, crystal micro- and macrostructure. Imperfections in crystals. Alloying theory. Phase diagrams, one- and two-component systems. Phase transformations in liquid/solid and solid/solid. reinforcing mechanisms and fracture mechanics. Engineering materials characteristics: a) Metallic materialsi. Mechanical properties and testing. FErrous metallic materials, copper and aluminium; properties and applications. b) Ceramic materials - structure, properties and applications. c) Polymers - structure, properties and applications. g) Composite materials (nano, micro and macro composites), properties and applications. Materials selection.

4. Teaching methods:

Lectures and exercises are interactive. On lectures, materials science theory and practical applications are presented, to enable a more effective knowledge transfer. Laboratory exercises enable practical applications of lecture obtained knowledge on testing equipment.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Presentation	Yes	10.00	Theoretical part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 1	FTN, Novi Sad 2007	2007
2,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 2	FTN, Novi Sad 2007	2007
3,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 3	FTN, Novi Sad 2007	2007
4,	W.D. Callister, Jr.	Materials Science and Engineering	John Wiley &Sons.Inc. New York	2008
5,	D. R. Askeland and P. P. Fulay	Essentials of Materials Science and Engineering	Cengage Learning USA	2010

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

Table 5.2 Course specification

Course:		Mechanical Materials
Course id:	M105	
Number of ECTS:	8	
Teacher:		Gerić D. Katarina
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 None

1. Educational goal:

Acquisition of basic knowledge in the field of science on materials and materials used in mechanical engineering.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used to establish relationship between characteristics and properties of materials and application of materials in different mechanical parts and structures.

3. Course content/structure:

Introduction about materials in general. Dependency of material properties from atomic, crystal micro and macro structures. Characteristic of atomic and crystal material structures. Imperfections (errors) in crystals. Crystal plasticity. Theory of alloying. Characteristic types of phase diagrams, one-, two- and three- component systems. Phase transformations liquid/solid and solid/solid. Mechanisms of material strengthening and fracture. Classification and characteristics of engineering materials: 1. Metal materials. Impact of microstructure on metal material properties. Importance of mechanical properties and their experimental determination. Metal materials based on iron, copper and aluminium, properties and application. 2. Ceramic materials – structure, properties and application. 3. Polymers – structure, properties and application. 4. Composite materials (nano, micro, and macro composite materials). Properties and application. Selection of materials.

4. Teaching methods:

The course is interactive in the form of lectures and laboratory practice. During lectures theoretical part of the course is presented and followed by typical examples for better understanding. During laboratory practice, acquired knowledge is applied on the available laboratory equipment. Besides lectures and practice, consultations are held on a regular basis.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	Yes	5.00	Coloquium exam	Yes	20.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	50.00
Term paper	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 1	FTN, Novi Sad	2007
2,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 2	FTN, Novi Sad	2007
3,	L. Šiđanin, K. Gerić	Mašinski materijali I - sveska 3	FTN, Novi Sad	2007
4,	V. Đorđević	Mašinski materijali	Mašinski fakultet , Beograd	2001
5,	H.Šuman	Metalografija	Tehnološko – metalurški fakultet	1981

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

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:		Mandatory		
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 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++	Mikro knjiga, Beograd	1994
2,	Malbaški D.	Objekti i objektno programiranje	Univerzitet u Novom Sadu	1998

Table 5.2 Course specification

Course:		Measuring Instruments		
Course id:	E142			
Number of ECTS:	8			
Teachers:		Mitrović Lj. Zoran, Župunski Ž. Ivan		
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:

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

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):

- understanding the basic principles of electromechanical conversion of energy
- understanding the basic features and ways of operation of rotating machines
- understanding the basic features and ways of operation of static electric machines – transformers
- understanding the basic features and ways of operation of the power electronic devices and their application
- understanding the basics of electrical drives

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 Kingsly	Električne mašine	Naučna knjiga, Beograd	1962

Table 5.2 Course specification

Course:		Automatic Control Systems
Course id:	E226	
Number of ECTS:	8	
Teachers:		Kulić J. Filip, Ristić V. Aleksandar, Petrovački Lj. Nebojša
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	2	2	0	0

Precondition courses

1. Educational goal:

Students learn about theoretical and practical bases of science of system control.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems and forms a basis for future engineering subjects.

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, calculation, laboratory, computer and computer-laboratory practice. Consultations. Part of the course which forms a logical whole can be taken in the form of a colloquium. Colloquium and examinationsare oral and written. Both parts are taken in written form. The final grade is formed on the bases of performance at the colloquium, computer-laboratory practice and the written and oral examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Oral 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,	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. 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

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

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

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, Galllager	Data Networks	2nd edition, Prentice Hall	1997
3,	Predmetni nastavnici	Skripte i prezentacije na sajtu Katedre	KTIOS	2012
4,	Endru S. Tanenbaum	Računarskke 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

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

Table 5.2 Course specification

Course:		Electric Machines and Power Electronics
Course id:	M109	
Number of ECTS:	7	
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	1

Precondition courses None

1. Educational goal:

To provide the future engineers with the necessary level of knowledge in the area of electric machines and power electronics.

2. Educational outcomes (acquired knowledge):

Readiness for independent scientific and research work in the area of synthesis of drive mechanism of power machines.

3. Course content/structure:

Modelling the components of drive systems. Model levels, quasi-static and dynamic models, concentration of model parameters. Model reduction. Stationary and transitional work mode. Solving the equation of motion and determining section load in the chain of drive mechanism elements. Modelling the electric motor: asynchronous cage and slip ring motor, synchronous motor, DC motor with series, separate and combined excitation. Modelling the systems of electrical motor feeding. Modelling the power transfer in a drive system: mechanical, hydro-dynamic, hydro-static and pneumatic. Modelling the control and regulation sub-systems. Computer simulation of drive operation. Commercial software.

4. Teaching methods:

Lectures. Practice classes: numerical (N), laboratory (L), computer (C). Individual consultations. The examination consists of the development and defence of an individual paper and an oral part.

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	25.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	25.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Levi, E., Vučković, V., Strezoski, V.	Osnovi elektroenergetike, elektroenergetski pretvarači	Stylos-FTN	1997
2,	Vukić, Đ	Elektrotehnika	Naučna knjiga	1991
3,	V. Teodorović	Električne pogonske mašine	Naučna knjiga	1978

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

Table 5.2 Course specification

Course:		Digital Control Systems
Course id:	AU41	
Number of ECTS:	7	
Teachers:		Jeličić D. Zoran, Rapaić R. Milan
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	1	2	0	0

Precondition courses

1. Educational goal:

Students gain theoretical and practical knowledge about computer control systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in solving practical engineering problems and form the basis for future professional courses.

3. Course content/structure:

Introduction to digital control systems. Sampling and hold process. Direct digital control. z-transform. Concept of digital state space models. Pulse transfer function. Analysis of digital systems. Digital system stability. Digital control system design: regulators, PID regulators, servo regulators, cancellation controllers, state space regulators. Implementation of digital control algorithms.

4. Teaching methods:

Lectures, numerical calculation practice, computer practice, laboratory practice. Consultations. The exam is written and oral. The course material can be divided into two colloquia. The oral part of the exam is based on a set of exam questions. Colloquia and tests are valid for two exam periods. Colloquia and exam are written, with the written part being prerequisite for the oral. The final grade is formed on the bases of achievements at the colloquia, 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
Project	Yes	30.00	Coloquium exam	No	40.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Stojić	Digitalni sistemi upravljanja	Nauka, Beograd	1990
2,	Lj. DGrujić	Diskretni sistemi	Mašinski fakultet, Beograd	1980
3,	R. Isermann	Digital Control Systems	Springer-Verlag	1989
4,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice hall	1997

Table 5.2 Course specification

Course:		Technical Equipment for Control Systems
Course id:	AU42	
Number of ECTS:	4	
Teachers:		Jorgovanović Đ. Nikola, Bojanić M. Dubravka
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:

Gaining knowledge about electrical measuring instruments and ways of measuring basic measuring quantities. Knowledge about seniors, electric, hydraulic and pneumatic servo systems and industrial regulators.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future education and in engineering subjects.

3. Course content/structure:

Errors in measurement. Standards and rule books for measuring instruments (measuring and indicated range, precision class, reference conditions, test intensity, markings). Electrical measuring instruments (moving coil instrument, soft iron instrument, digital instruments). Measuring basic physical quantities (current, voltage, power, resistance). Physical basics of sensors. Electrical servo systems. Hydraulic servo systems. Pneumatic servo systems. Application of industrial regulators (temperature regulator, pressure regulator, pneumatic pressure regulator, analogue and digital electronic regulators). Logic automata (relay, electronic, programmable).

4. Teaching methods:

Lectures, computer and laboratory practice classes. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	50.00
Project task	Yes	15.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mladen Popović	Senzori i merenja	Viša elektrotehnička škola Beograd	2000

Table 5.2 Course specification

Course:		Control Systems Technology
Course id:	E238A	
Number of ECTS:	6	
Teachers:		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:
2	0	3	0	1

Precondition courses

1. Educational goal:

Students learn about modern technologies and development trends in the filed of control systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems and form the basis for future engineering courses.

3. Course content/structure:

Systematic engineering approach and computer control systems. Basic theoretical knowledge which enables understanding of laboratory classes with semi- industrial plants (temperature regulations, level and flow, Ph value, DC motor, robotic hand, digital signal processing, SCADA), as well as understanding of processes encountered with real life industrial plants. Current computer based automatic control projects for industrial purposes. Visits to industrial plants and other institutions which apply bioengineering technologies in order to examine contemporary technologies of computer based control.

4. Teaching methods:

Lectures. Laboratory and computer-laboratory practice classes. Consultations. Part of the course which forms a logical whole can be taken in the form of colloquium. Colloquium and examination are written and oral. Both parts are taken in written form. The final grade is based on the colloquium, obligatory assignment, written and oral part of the examination.

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,	Robert N. Bateson	Introduction to Control System Technology	Prentice Hall	2002
2,	Filip Kulić	Radni materijali za predmet tehnologije upravljačkih sistema		2005

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 emebedded 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

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 tečnosti i gasova	Zavod za udžbenike i nastavna sredstva Srpsko Sarajevo	2003
3,	Mladen Popović	Senzori u robotici	Viša elektrotehnička škola Beograd	1996

Table 5.2 Course specification

Course:		Compilers		
Course id:	E234			
Number of ECTS:	4			
Teacher:	Suvajdžin Rakić B. Zorica			
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:

Students gain knowledge about translating one programming language into another, principles of compiler operation, tools for their development and their implementation. Beginner level knowledge of constructing compilers.

2. Educational outcomes (acquired knowledge):

The acquired knowledge forms a basis for the future engineering courses.

3. Course content/structure:

Compiler task. Types of computer programs and compilers. Formal languages. Grammars and automata. Lexical, syntax and semantic analysis, (Intermediate) code generation, Memory control and table of symbols, (Intermediate) code optimization, Types, Intermediate code interpretation, Compiler structure, Compiler generators.

4. Teaching methods:

Lectures, computer practice, consultations. Pre examination assignments include four tests and one course project. Final examination checks the theoretical knowledge of the subject. The number of points necessary for obtaining a 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, Z. Suvajdžin	Praktični uvod u programske prevodioce	u pripremi	2008

Table 5.2 Course specification

Course:		Fundamentals of Information Systems and Software Engineering
Course id:	E235	
Number of ECTS:	6	
Teachers:		Perišić R. Branko, Dejanović R. Igor
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	3	0	1

Precondition courses None

1. Educational goal:

Knowledge about the basics of software design and information system design. Students learn about the application of different methodological approaches in software design and understand the place of software within a complex information system. Students are able to develop complex, standard based software solutions based on object platform.

2. Educational outcomes (acquired knowledge):

After completing the course students are able to independently implement complex software solutions, design graphical user interface based on specified standards and manage data storage based on textual databases using object platform. Students also acquire the bases of professional software development and information system design.

3. Course content/structure:

Theoretical part: Fundamentals of software engineering, motivation and problems, definition of profession and structure of knowledge. Software demands, design, construction, testing, maintenance and software configuration management. Software lifecycle models, quality and related disciplines. Basic notions of system programming. Fundamentals of information system design, concept of modern information system organization. Phases of information system evolution. Challenges of modern information technologies and concepts in information system design. Business information system architecture.
Practical part: Object oriented programming repetition, elements of object platform, standard template library, visual components standard library. Advanced concepts of object oriented programming.

4. Teaching methods:

Within the theoretical part of the course a selected example of the simplified, data oriented, real system is specified where, during the practical part of the course, steps in the individual phases of a software lifecycle can be practiced (request analysis, design specification, implementation, testing, etc). Having practiced the early phases of lifecycle, the students get individual tasks to implement based on the standards of user interface, on the object platform they are capable of using based on the prerequisite course.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Theoretical part of the exam	Yes	25.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	25.00
Laboratory exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Project defence	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Branko Perišić	Osnovi informacionih sistema i softverskog inženjerstva	Elektronska verzija-PDF	2007
2,	S.L.Pfleeger, J. M. Atlee	Software engineering Theory and Practice", third edition	Prentica Hall	2006
3,	B. Shniederman	Designing The User Interface	Addison Wesley	2002
4,	G. Curtis, D. Cobham	Business Information Systems Analysis, Design and Practice	Prentica Hall	2002
5,	B. Eckel	Thinking in C++ Volume 1 and 2 (elektronska verzija)	Elektronska verzija-PDF	2000

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

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 sequent ional 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

Table 5.2 Course specification

Course:		Real Time System Programming 2
Course id:	E23M	
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:
2	0	3	0	1

Precondition courses

1. Educational goal:

Educating students in design and parallel programming of real time system's software components with focus on real time operating systems and complex parallel software architectures.

2. Educational outcomes (acquired knowledge):

Ability to design and implement parallel programs for real time system's software components with focus on real time operating systems and complex parallel software architectures.

3. Course content/structure:

Introduction. Part 1: Operating system design (Management of resources. Management of processor: process planning algorithms, deadlocks of processes, time driven software, example of time driven system. Memory management: memory allocation in multiprogramming conditions, virtual memory. Input-output management: input-output units, interrupts and I/O processes, program independence of I-O units, communication programs. Examples of RTOS.). Part 2: Parallel programming of complex parallel software architectures (Examples of architectures. Parallelization methodology.).

4. Teaching methods:

Lectures, tutorials, computer practice classes, consultations. During the semester students first complete laboratory practice tasks and then a course project. This is completed during the computer practice classes.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	20.00	Theoretical part of the exam	Yes	30.00
Computer exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Project	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Kovačević i M. Popović	Sistemska programska podrška u realnom vremenu 2: Operativni sistemi za rad u realnom vremenu	FTN Izdavaštvo, Novi Sad	2011

Table 5.2 Course specification

Course:		Fundamentals of DSP Architecture and Algorithms 1		
Course id:	E240			
Number of ECTS:	4			
Teacher:		Temerinac R. Miodrag		
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:

Students gain knowledge about algorithms and their program realizations on processors with architecture characteristic of digital signal processors.

2. Educational outcomes (acquired knowledge):

Knowledge about notions and procedures characteristic of algorithms and digital signal processor architecture.

3. Course content/structure:

Introduction to algorithms and DSP architecture. A/D and D/A conversion. Discrete signal transformation software. Software for FIR filter design. IIR filter design software. Digital filter software. Power spectrum estimation.

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	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,	S. Berber	Digitalna obrada signala	FTN	2004

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.Ćurić ,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

Table 5.2 Course specification

Course:		Software Design		
Course id:	RI45			
Number of ECTS:	7			
Teacher:		Perišić R. Branko		
Course status:		Elective		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	1	2	0	0
Precondition courses				

1. Educational goal:

Students learn about efficient and effective software design. They acquire knowledge and skills for architecture design, implementation and testing of complex software systems. Standardization of implementation, testing, verification and validation of software. Using tools for tracking software faults. Documentation for complex software products. Software characteristics presentation.

2. Educational outcomes (acquired knowledge):

A the end of the course the students are able to design complex software systems based on standardized processes of implementation, testing, verification and validation of software and use of available tools for tracking software configuration and software faults. In addition they are also capable of making high quality documentation and presentations related to characteristics of complex software products.

3. Course content/structure:

Model based software construction. Aspects of software system design: conceptual and technical design, decomposition and modularity, software architecture, styles and strategies. Aspects of software system construction: organization and structure of software, elements of program solution, construction standards and functionality implementation. User interface design. Software construction procedure: methods and techniques of construction, team work and team software development, X-treem programming, code standard and quality, software testing, software inspection, software integration, verification and validation. Fundamentals of software quality control. Fundamentals of fault tracking and software configuration.

4. Teaching methods:

On the basis of specification of event controlled system, developed within the course: Software Specification and Modeling, and working in teams, students work on practical implementation of the knowledge about software construction. Relying on two software inspections during the lectures, students learn about methods and techniques of presenting software solutions, their testing, verification and validation. At the end of the course the students give a class presentation and defense of their project.

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	40.00
Lecture attendance	Yes	5.00			
Project	Yes	50.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Branko Perišić	“Projektovanje softvera”	Elektronsko izdanje-PDF,PPT	2007
2,	S.L.Pfleeger, J. M. Atlee	“Software engineering Theory and Practice”, third edition	Prentica Hall	2006
3,	SWEBOK	SWEBOK, materijal u elektronskoj formi	Elektronsko izdanje(www.swebok.org)	2007
4,	Matthew Robinson, Pavel Vorobiev	Swing, Second Edition	Elektronsko izdanje-PDF	2003
5,	John Zukowski	Majstor za javu, Java J2SE 1.4	Kompjuterska biblioteka Čačak	2002

Table 5.2 Course specification

Course:		Real Time Software 1		
Course id:	RT49			
Number of ECTS:	6			
Teacher:		Atlagić S. Branislav		
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 real time operating systems and are able to design adequate software support.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions, standards and technologies in the field of real time software and the ability to design and realize simple programs of this type.

3. Course content/structure:

Introduction. Tasks of real time software, the notion of program component in distributed systems. Control software of computer based systems, program implementation of control algorithm. Architecture and components of GAUS system. Program model of control object. Process control software (real time multiprocessor program environment, implementation of standards for connection with sensors/execution elements, handlers of components for physical acquisition of process data, standard procedures of primary and secondary processing of process data).

4. Teaching methods:

Lectures: Tutorials. Computer practice. Consultations.
Students attend lectures and practice classes. Students work during the semester in computer practice classes on developing their examination paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	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,	Branislav Atlagić	PROGRAMSKA PODRŠKA U REALNOM VREMENU, skripta		2005

Table 5.2 Course specification

Course:		Production systems		
Course id:	IM1027			
Number of ECTS:	6			
Teachers:	Ćosić P. Ilija, Lazarević M. Milovan, Marić B. Branislav, Lalić P. Bojan, Mitrović R. Vojin			
Course status:	Elective			
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
2	0	2	0	2
Precondition courses	None			

1. Educational goal:

The course is aimed at discussing the process of systemic transformation of inputs into finished goods and services in different production systems. The goal of course is to prepare students for the development and design of production and service delivery system, defining their characteristics, design manufacturing processes that take place in them. Students are trained to use the tools for shaping the flows of materials, design of system structures and processes, and this provides the basis for the design of energy systems. During the program, students acquire the knowledge necessary to determine the spatial distribution of the elements of the system as a way of selecting the macro and micro sites. In the present program, service creation and service delivery are studied separately because of their specificity.

2. Educational outcomes (acquired knowledge):

Students will be prepared to develop and design manufacturing system and system for the creation and delivery of services, to recognize and understand the importance of the production system, production and service processes and manufacturing products as essential purposes of the production system and the basic definitions of energy support to the functioning of the system. Through lectures, exercises and practical work, students will gain knowledge about the company as an integrated whole with the connection of all functional elements.

3. Course content/structure:

Content / Structure of the course: The basic elements of production and business systems, Conditions for developing production and business systems, Utility systems and delivery of services, Product and production program, Intangible products / services, the nature and manner of perceiving, Workflow and system capacity, Design of material flow, Individual approach in the design flow, Group approach in the design flow, General model of the flow of materials, balance of flows in the system design flow systems in the service, Design the structure of production and business systems, Process approach to shaping the structure, Subject approach in designing structures, The basic foundation for design of structures, Defining the elements of the system, Creating spatial structure of the system design flow of energy, Determination of energy needs, Designing energy structure, Location of production systems, Location determination system in the narrow and broad sense, Relocation (outsourcing) function or process to another location or to another production system, The conditions for outsourcing, delegating responsibility and competence management process displaced, Ability of the Company according to the state of available resources for adoption of modern technology solutions, Simulation of business systems in order to design and re-configure flow.

4. Teaching methods:

Lectures are auditory based character with the required number of theoretical case studies. Exercises for the students are auditory, introduction for observing in the problem, and a case study of interactive processing and calculation examples for the purpose of mastering the practical tools for system design and group work on the preparation of project tasks. Students work in small groups on aspecific project task which aims to use the knowledge acquired in the design of real production systems and service delivery. Laboratory exercises include training on a specially equipped workplaces, which are tied into the production line, in the specific laboratory under the supervision of laboratory technicians. Public display of project tasks is planned. During the course, company visits are provided.

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			
Project	Yes	50.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Zelenović, D.	Projektovanje proizvodnih sistema	Fakultet tehničkih nauka u Novom Sadu	2005
2,	Zelenović, D., Ćosić, I., Maksimović, R.	Projektovanje prizvodnih sistema - priručnik za vežbe	Fakultet tehničkih nauka u Novom Sadu	2005
3,	Zelenović, D., Ćosić, I., Maksimović, R., Maksimović, A.	Projektovanje proizvodnih sistema - pojedinačni prilaz	Fakultet tehničkih nauka u Novom Sadu	2005

Table 5.2 Course specification

Course:		DSP Architecture and Algorithms 1
Course id:	RT44	
Number of ECTS:	7	
Teacher:		Kovačević V. Jelena
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	1	2	0	0

Precondition courses

1. Educational goal:

Students are able to design architecture for digital signal processing, with accent on the architecture of processors for digital signal processing and their programming.

2. Educational outcomes (acquired knowledge):

Students have mastered basic techniques of design and testing of architecture for digital signal processing (DSP). The acquired knowledge is the basis for the future professional courses.

3. Course content/structure:

Introduction. Architecture of processors for digital signal processing (Von Neuman and Harvard architecture, RISC and DSP, parallel processing, pipelining, DSP recourses: ALU, memory, dedicated DSPs, DSPs for audio signal processing, DSPs for video signal processing). VLSI technology for DSP. Arithmetic's of processors for digital signal processing (data format, ways of representing numbers, basic operations ADD, MUL and MAC, specific operations: complex arithmetic's, cordic, convolution and vector arithmetic's). DSP programming (real time operation, programming languages C and assembler, tools: compiler, simulator and debugger, testing).

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
Project	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. Temerinac, M. Popović, N. Teslić	Arhitekture i algoritmi DSP-a I	FTN	2004

Table 5.2 Course specification

Course:		Standardization and quality		
Course id:	EISIK			
Number of ECTS:	4			
Teacher:		Spasić-Jokić M. Vesna		
Course status:		Mandatory		
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

Table 5.2 Course specification

Course:		DSP Applications in Control Systems
Course id:	AU47	
Number of ECTS:	7	
Teachers:		Jorgovanović Đ. Nikola, Bojanić M. Dubravka
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	4	0	0

Precondition courses None

1. Educational goal:

Students acquire the basic knowledge of processors and algorithms for digital signal processing.

2. Educational outcomes (acquired knowledge):

The acquired knowledge forms the basis for the future education and professional courses.

3. Course content/structure:

Periodic signals. Aperiodic signals. Frequency spectrum and frequency analysis of signals, an introduction to Fourier analysis. The Fourier Series. The Fourier Transform (FT). Introduction to digital signal processing. Signal discretization, sampling theorem. Discrete signals and systems. Fourier transform of discrete signals, discrete FT. Fast Fourier transform (FFT). Infinite Impulse Response (IIR) systems. Finite Impulse Response (FIR) systems. Application of DFT and FFT algorithms and digital filters in control.The importance of DSP in control systems. The architecture of DSP TMS320C2000 platform. Application of IrDA protocol in control. Application of Bluetooth protocol in control.

4. Teaching methods:

Lectures, practice, computer practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Lj. Milić, Z. Dobrosavljević	Uvod u digitalnu obradu signala	Elektrotehnički fakultet Univerziteta u Beogradu	1999
2,	M. V. Popović	Digitalna obrada signala	Akademska misao, Beograd	2003
3,	M. Popović, A. Mojsilović	Digitalna obrada signala - Računarske vežbe i simulacije u MATLAB-u	Nauka, Beograd	1996
4,	A. Cohen	Biomedical signal processing: Time and Frequency Domain Analysis	Boca Raton, Fla, CRC Press	1986
5,	A. Cohen	Biomedical signal processing: Compression and Automatic Recognition	Boca Raton, Fla, CRC Press	1986

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

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

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

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

Table 5.2 Course specification

Course:		XML and WEB Services		
Course id:	E2E40			
Number of ECTS:	7			
Teachers:		Ivanović V. Dragan, Milosavljević P. Branko		
Course status:		Elective		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	4	0	0
Precondition courses				

1. Educational goal:

Students are taught about tasks of processing HML documents and design and construction of web service components.

2. Educational outcomes (acquired knowledge):

Students will be familiar with XML technology and standards for developing web services. Students are competent to design systems based on XML documents and design web service components in accordance with the present standards.

3. Course content/structure:

XML language: overview, syntax, structure of documents. Standards for specifying document structure and their processing. Transformation and visualization of documents. Document interconnections. Document search. XML databases. Web services: overview of concepts, available implementation technologies. Standards of web service components. Integration of information systems using web service components: coordination protocols, service composition. Standards and applications of web services in e-business systems.

4. Teaching methods:

Lectures. Computer practice. Consultations.
The examination is oral. The final grade is based on the success in the laboratory practice and oral part of the examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	No	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	V. Geroimenko	Dictionary of XML Technologies and the Semantic Web	Springer-Verlag, Berlin	2004
2,	G. Alonso, F. Casati, H. Kuno, V. Machiraju	Web Services: Concepts, Architectures and Applications	Springer-Verlag, Berlin	2004

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.Krklješ	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

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 chapeters 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 temeperature 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 systemsand 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

Table 5.2 Course specification

Course:		Materials in Electrical Engineering
Course id:	H110	
Number of ECTS:	5	
Teacher:		Živanov D. Ljiljana
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 contemporary materials used in electrical engineering as well as measuring techniques for determining their electrical, optical and magnetic properties.

2. Educational outcomes (acquired knowledge):

- ability to determine specific resistivity of semiconductors by four point method
- ability to determine type of the semiconductor and its other properties using the Hall method
-ability of practical application of Hall methods in electrical engineering (Hall's sensor, current measuring on PCB)

3. Course content/structure:

Basic properties and classification of materials in electrical engineering. Crystal structures. Imperfections inside crystals. Energy gap, carrier concentration, the type of admixtures, transport phenomena. Engineering of the energy gap. Semiconductors (main representatives: Si, Ge, GaAs). The application of semiconductors according to the size and nature of the energy gap. Characterization methods of semiconductors (four point method, the Hall method). Techniques of crystal growth and application of the thin film. Conductors: (basic properties, representatives, thermoelectric effect). Dielectrics (basic properties, relative dielectrical constant). Materials for electronic housing. Optical properties of crystals (absorption and emission processes of light, displays). Magnetic properties of crystals (diamagnetism, paramagnetism, ferromagnetism). Soft and hard magnetic materials. Magnetic devices and applications (magnetic recording, magnetic-optical effect, nuclear magnetic resonance). Properties of superconductors. Application of superconductors (Josephson circuit, high-temperature superconductors)

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
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Goran Stojanović, Ljiljana Živanov	Materijali u elektrotehnici	FTN Izdavaštvo	2007
2,	G. Stojanović, Lj. Živanov, A. Marić, G. Radosavljević	Materijali u elektrotehnici - zbirka rešenih zadataka	FTN Izdavaštvo, Novi Sad	2007
3,	D. Raković	Fizičke osnove i karakteristike elektrotehničkih materijala	ETF, Beograd	1995
4,	H. L. Kwok	Electronic materials	PWS Publishing Company	1997
5,	Rolf E. Hummel	Electronic Properties of Materials	Springer, 3rd edition	2001
6,	L. Solymar and D. Walsh	Electrical Properties of Materials	Oxford Science Publications, 6th edition	1998
7,	J. D. Livingston	Electronic Properties of Engineering Materials	Wiley and Sons	1999

Table 5.2 Course specification

Course:		Measurement of fluid properties		
Course id:	M3453			
Number of ECTS:	7			
Teacher:		Bukurov Ž. Maša		
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:

The course objective is to enable students to work with basic technique of fluid values measurement, processing and presentation of measurement results, calculation of gas consumption and estimation of flow in case of excesses on the pipelines and reservoirs.

2. Educational outcomes (acquired knowledge):

Enabling students to work with basic techniques of fluid values measurement, processing and presentation of measurement results, calculation of gas consumption and estimation of flow in case of excesses on the pipleines and reservoirs.

3. Course content/structure:

Dynamic characteristics of measurement systems. Relative and absolute measurement error. Measurement uncertainty, unreliability and resolution. Processing and presentation of measurement results. Temperature measurement techniques. Pressure measurement technique. Density measurement techniques. Dynamic viscosity measurement techniques. Flow measurement techniques. Velocity measurement techniques. Heating fuel power measurement techniques. Fuel contents measurement techniques. Calculation of gas consumption. Gas detection techniques. Estimation of flow in case of the excesses on pipelines and reservoirs.

4. Teaching methods:

Lectures – Auditory Practice, Laboratory Practice – Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Coloquium exam	No	40.00	Written part of the exam - tasks and theory	Yes	40.00
Laboratory exercise defence	Yes	30.00	Oral part of the exam	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Cvijanović, P.	Merenje fluidnih veličina	Stylos	1998
2,	Vušković, I,	Osnovne tehnike merenja	Mašinski fakultet Beograd	1977
3,	Milenković, B.	Priručnik za merenje protoka	SMEITS	2004
4,	Prodanović, D.	Merenja u hidrotehnici	Građevinski fakultet u Beogradu	2009

Table 5.2 Course specification

Course:		Dedicated Computer Structure Design 2		
Course id:	RT52			
Number of ECTS:	7			
Teacher:		Kovačević V. Jelena		
Course status:		Elective		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	4	0	0
Precondition courses		None		

1. Educational goal:

Students will learn about the basics of designing dedicated computer systems using VHDL.

2. Educational outcomes (acquired knowledge):

Students know the basic standards and technologies required for designing dedicated computer systems and are able to use VHDL language of multiprocessor computer structures.

3. Course content/structure:

Design using VHDL of multiprocessor computer structures. 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
Project	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

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

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

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

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

Table 5.2 Course specification

Course:		Fundamentals in Thermodynamics		
Course id:	M203L			
Number of ECTS:	5			
Teacher:		Dragutinović D. Gordan		
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 thermodynamic structure, thermodynamic concepts and methods for solving problems of energy conversion.

2. Educational outcomes (acquired knowledge):

Acquiring basic knowledge in solving technical tasks of thermal power engineering, thermal process engineering and designing thermal machines and plants.

3. Course content/structure:

(1) Thermodynamic system. Mechanical and thermodynamic axioms: conversion of mass, of impulse, first and second law of thermodynamics. (2) Equations of state: Thermal and caloric equations of state for substances (ideal gases, real gases – water and water vapour). (3) Processes. Perfect and real processes. Circular processes and thermodynamic efficiency of these processes (clockwise and counter-clockwise vapour and gas processes).

4. Teaching methods:

Lectures and auditory practice. Practice classes follow the lectures and include the advanced level of students` independence in solving assignments.

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			
Test	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Marić	Nauka o toploti - termodinamika, prenos toplote, sagorevanje	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	2006
2,	Đ. Kozić, B. Vasiljević, V. Bekavac	Priručnik za termodinamiku i prostiranje toplote	Građevinska knjiga, Beograd	1983
3,	M. J. Moran, H.N. Shapiro	Fundamentals of Engineering Thermodynamics	John Wiley & Sons, Inc.	1992
4,	Y. A. Cengel, M.A. Boles	Thermodynamics: An Engineering Approach	McGrow-Hill	1998
5,	D. Malić, B. Đorđević, V. Valent	Termodinamika strujnih procesa	Građevinska knjiga, Beograd	1970

Table 5.2 Course specification

Course:		Stručna praksa			
Course id:	MROSP1				
Number of ECTS:	3				
Teachers:					
Course status:	Mandatory				
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

Table 5.2 Course specification

Course:		Control Systems Design
Course id:	AU44	
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:
4	0	4	0	0

Precondition courses

1. Educational goal:

Students gain knowledge about the basic principles of designing automatic control systems and forming design documentation in accordance with the current rules and legal regulations and bases of automatic control in the field of power engineering.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems and form the basis for future professional courses.

3. Course content/structure:

Introduction (problem definition, project task, types of projects and their content: feasibility study, concept, general, main, executive, project revision, design regulations and recommendations). Standards (structure and content of standards related to project development and project documentation in electrical engineering, mechanical engineering and processing industry, national and important international standards: SRPS, ANSI, ISA, IEEE, IEC, DIN, VDE…) Technical documentation(standard graphic symbols, labels, schemes, diagrams, tables). Modern software for developing technical documentation(E-plan, AUTOCAD, MS Project…). Supervision and execution. Development of a practical project related to particular problem (processing industry, electric motor drive, water distribution system (hot/cold water), electric power, gas, transportation system…) Occupation health protection, protection against electric shock in industry. Actuators in industry, physical properties and environment characteristics. Application of automatic control systems in machine drives in industrial plants. Design on modern control systems in industry.

4. Teaching methods:

Lectures; Computer - laboratory practice. Consultations. The exam is written and oral, with the written part being prerequisite for the oral. The final grade is formed on the bases of achievements at the colloquium, homework assignment and the written and oral part of the exam.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Coloquium exam	No	40.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	William S. Levine	The Control Handbook	IEEE Press	1996
2,	Werner Leonhard	Control of Electric Drives	Springer	1996
3,	F. Kulić	Materijali sa predavanja pripremljeni u obliku skripti		2005
4,	C. Chatfield, T. Johnson	Microsoft Project 2000 Step by Step	Microsoft Press	2000
5,	G.Omura	AutoCAD 14	Mikro knjiga	1997
6,	B. Matić	Projektovanje sistema automatske regulacije i upravljanja tehnološkim procesima	Svjetlost	1989
7,	Filip Kulić	Radni materijali za predmet projektna dokumentacija u automatici		2005
8,	M. Isailovic, M. Bogner	Propisi o izgradnji objekata	SMEITS	2000

Table 5.2 Course specification

Course:		Optimization Methods
Course id:	E237	
Number of ECTS:	8	
Teachers:		Jeličić D. Zoran, Rapaić R. Milan
Course status:		Elective

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	2	1	0	1

Precondition courses

1. Educational goal:

Students learn about theoretical and practical bases of non-linear optimization of static and dynamic systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving practical engineering problems and forms a basis for future engineering subjects.

3. Course content/structure:

Formulation of optimization problem. Theoretical bases of static optimization. Analytical system determination, functions of one or more variables without constraints. Analytical determination of extremes, functions of one or more variables with constraints on the type of equality and inequality. Linear programming. Numerical solutions of one-dimensional problems. Numerical solutions of multi-dimensional problems with and without constraints. Fundamentals of variational calculus. Direct methods of variational calculus. Optimal control. Pontryagin`s maximum principle. Dynamic programming, linear regulators. Numerical methods of dynamic optimization. Modern optimization procedures: genetic algorithm, simulated annealing, PSO. Application of optimization procedures in training artificial neural networks and fuzzy logic systems. Examples of optimization of practical engineering problems.

4. Teaching methods:

Lectures, Numerical and calculation practice. Computer practice. Laboratory practice. Consultations.
The examination is written and oral. The written part consists of at least four parts, in order to achieve a passing grade min 50 % each task must be completed successfully. The course material can be divided into two colloquia. The oral part of the examination is based on a list of examination questions. The colloquia, tests and examination are written. The written part is eliminating. The final grade is formed on the basis of colloquia, homework assignments, written and oral part of the examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Coloquium exam	No	40.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	J. Petrić, S. Zlobec	Nelinearno programiranje	Naučna knjiga, Beograd	1983
2,	B. Vujanović, D. Spasić	Metodi optimizacije	Univerzitet u Novom Sadu	1998
3,	Dimitri P. Bertsekas	Nonlinear Programming	Athena Scientific	2004

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

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, labaratory 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

Table 5.2 Course specification

Course:		Soft Computing		
Course id:	E2K40A			
Number of ECTS:	7			
Teachers:	Nenadić M. Goran, Obradović J. Đorđe			
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	None			

1. Educational goal:

Students will learn about concepts, techniques and selected examples of application of soft computing.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is the basis for solving complex problems which require intelligence and cannot be solved using conventional mathematical approach.

3. Course content/structure:

Evolutionary computing: genetic algorithms, genetic programming, multiple intelligence, evolutionary strategies. Neural computing: neural networks. Machine learning: supervised learning, unsupervised learning, reinforcement learning. Fuzzy systems: fuzzy sets, fuzzy logic. Probabilistic reasoning: belief propagation, chaos theory.

4. Teaching methods:

Lectures. Computer practice Consultations.
Practical part of the course is examined in the computer laboratory where students solve obligatory tasks. Students can also do nonobligatory laboratory tasks. The task are marked. Part of the course which forms a logical whole can be taken in the form of partial exam – colloquium (2-4). Partial exam is a part of the examination. A student can take the next partial examination if he/she has achieved at least 30% of the points at the previous one. Partial examinations are taken in written form. The final examination is oral.
Course grade is formed on the basis of lecture attendance, marks on the obligatory and nonobligatory tasks, success at partial examinations and final examination.

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			
Project	Yes	25.00			
Project task	Yes	15.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Tettamanzi, Tomassini	Soft Computing – Intergrating Evolutionary, Neural and Fuzzy Systems	Springer-Verlag, 2001, ISBN: 3540422048	2001

Table 5.2 Course specification

Course:		Databases 1
Course id:	RI43A	
Number of ECTS:	8	
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:
4	1	2	0	1

Precondition courses

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 and in future engineering courses: Databases 2, Software Specification and Modeling, Information System Engineering, Business Informatics, Database Systems.

3. Course content/structure:

Databases and their role in the development and exploitation of information systems. Basic notions and concepts in databases, Database management system. Data models. ER data model; Relational data model. Relational algebra. Types of database constraints in relational data model. Functional dependency and the relation scheme key. Fundamentals of database design. The database management system language SQL. Physical data structures and file systems. Methods and process of file organization. Pile, Sequential, Hash, Index-Sequential and Index B-tree file organization. Transaction data processing.

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			
Complex exercises	No	10.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Mihajlović Dragan	Informacioni sistemi i projektovanje baza podataka	FTN, Novi Sad	1998
2,	Mogin Pavle	Strukture podataka i organizacija datoteka, III izdanje	CET Beograd	2008
3,	Mogin Pavle, Luković Ivan	Principi baza podataka	Fakultet tehničkih nauka i MP Stylos, Novi Sad	1996
4,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition	McGraw Hill, Inc.	2009
5,	Date C. J.	An Introduction to Database Systems (8th Edition)	Addison Wesley	2004

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

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

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	Akademska misao	2003
3,	Milić Stojić	Digitalni sistemi upravljanja	Nauka, Beograd	1994
4,	Darko Marčetić	Mikroprocesorsko upravljanje energetskim pretvaračima	FTN Izdavaštvo	2012

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

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

Table 5.2 Course specification

Course:		Izrada i odbrana diplomskog rada			
Course id:	MRDR1				
Number of ECTS:	14				
Teachers:					
Course status:	Mandatory				
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

Table 5.2 Course specification

Course:		Process Control by Computer
Course id:	AU50	
Number of ECTS:	4	
Teacher:		Čongradac D. Velimir
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:

Students acquire the basic theoretical and practical knowledge about computer controlled systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in solving practical engineering problems and form the basis for the future professional courses.

3. Course content/structure:

Structure of the production process. Computer controlled systems. System for accepting analogue signals. System for accepting discrete signals. Sensors and transmitters in real industrial environment. Executive organs. Protection of industrial control systems against disturbances. Practical realization of regulator and regulator program. Control of discrete values (PLC devices). Highly reliable systems. Structure of practical control devices. Basic elements of control device software.

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.
The final examination is written and oral. The course material can be divided and passed through three colloquia. As a rule the colloquia are valid for two examination periods. The colloquia and the examination are written. The written part is eliminating.
The final grade is based on the success on the colloquia, homework assignment, and written and oral part of the examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
			Project	Yes	30.00
			Coloquium exam	No	40.00
			Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Hajduković, S. Odri	Programski jezici za programabilne kontrolere-međunarodni standard IEC61131-3	Novi Sad	1999
2,	Profesor	Štampani materijal i prezentacije koji pokrivaju predavanja		2010
3,	Profesor i asistenti	Skripta za računarske i labaratorijske vežbe		2011

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, Županski 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, photomultiplicators, 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 zadataka iz električnih merenja neelektričnih veličina	FTN Novi Sad	2001
2,	Stanković Dragan	Fizičko tehnička merenja	Tehnička knjiga Beograd	2003
3,	Neubert Hermann	Instrument Trransducers	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

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 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,	Tim Williams	The circuit designers companion	EDN	2005
3,	Paul Horowitz, Winfield Hill	The Art of electronics	Cambridge University Press	1989

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	Akademska 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

Table 5.2 Course specification

Course:		DSP Architecture and Algorithms 2		
Course id:	RT46			
Number of ECTS:	4			
Teacher:		Kovačević V. Jelena		
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:

Students learn about designing algorithms for digital signal processing with emphasis on their implementation and DSP programming.

2. Educational outcomes (acquired knowledge):

Knowledge about the basic techniques of design and testing of algorithms as well as their implementation in digital signal processing processors.

3. Course content/structure:

Introduction. DSP programming, part two. Specific characteristics of implementation of DSP algorithms. Determining time critical functional processing blocks. Classification of functional blocks into those which are realize as digital signal processing routines and those which are realized in programmable sequential networks. Writing routines adapted to a particular processor (data formats and operations with them). Solving cooperation between functional blocks in digital signal processor and blocks implemented in programmable sequential networks. Forming a list of items for verification and vector test for bit-exact testing. Translating routines into assembler code (automatic or manual). Bit-exact testing. Forming a test report on the basis of verification items list. Final writing of program into permanent integrated circuit memory. Examples of implementation of DSP algorithms: programming standards (IEEE, ISO, ITU-T, ETSI, ...).

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	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. Temerinac, J. Tatić	Arhitekture i algoritmi DSP-a II, Skripte		2005

Table 5.2 Course specification

Course:		Database Systems		
Course id:	E2I40			
Number of ECTS:	4			
Teacher:		Luković S. 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				

1. Educational goal:

Advanced education of students in the field of databases (DB), with a possibility of their easy involvement in industry projects in the field of DB and information system development.

2. Educational outcomes (acquired knowledge):

Acquiring knowledge and skills necessary for the application of special techniques of DB design. Acquiring knowledge about new data models and special applications of database systems. Learning DB server programming techniques.

3. Course content/structure:

Common concepts and desirable characteristics of data models. Classification and types of data model constraints. Formal specification of DB constraints. Advanced capabilities of SQL in specifying database schemas and data manipulation. Server programming techniques (programming at the level of a DBMS). Techniques of automated design and integration of DB schema. Object-oriented and Object-Relational databases. XML databases. Temporal databases. Distributed databases.

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			
Exercise attendance	Yes	5.00			
Project	Yes	30.00			
Project task	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Date C. J.	An Introduction to Database Systems	Addison Wesley	2004
2,	Ramakrishnan R., Gehrke J.	Database Management Systems	Mc Graw Hill	2000
3,	Mogin P., Luković I., Govedarica M.	Principi projektovanja baza podataka	FTN Izdavaštvo	2004
4,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition	McGraw-Hill, Inc.	2009
5,	Feuerstein Steven, Pribyl Bill	Oracle PL/SQL Programming: Covers Versions Through Oracle Database 11g Release 2 (Animal Guide)	O'Reilly Media, Inc.	2009

Table 5.2 Course specification

Course:		Distributed Artificial Intelligence and Intelligent Agents		
Course id:	E2K41			
Number of ECTS:	4			
Teachers:		Vidaković P. Milan, Sladić S. Goran		
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:

Students learn about concepts, techniques and selected examples of application of distributed artificial intelligence and agent systems. .

2. Educational outcomes (acquired knowledge):

Students gain knowledge which enables the implementation of agent paradigm in the design and implementation of complex software systems.

3. Course content/structure:

Internal architecture of intelligent agent. Multi-agent system (MAS). Communication, coordination and negotiation in MAS. Languages for interagent communication. MAS architecture. MAS software environment. Examples of application.

4. Teaching methods:

Lectures, Computer practice. Consultations.
Practical part of the course is examined in the computer laboratory where students solve obligatory tasks. Students can also do nonobligatory laboratory tasks. The task are marked. Part of the course which forms a logical whole can be taken in the form of partial exam – colloquium (2-4). Partial exam is a part of the examination. A student can take the next partial examination if he/she has achieved at least 30% of the points at the previous one. Partial examinations are taken in written form. The final examination is oral.
Course grade is formed on the basis of lecture attendance, marks on the obligatory and nonobligatory tasks, success at partial examinations and final examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Milan Vidaković	Agentska okruženja	Zadužbina Andrejević	2007
2,	Michael Knapi, Jay Johnson	Developing Intelligent Agents for Distributed Systems	McGraw-Hill	1998

Table 5.2 Course specification

Course:		E-Business Systems Security		
Course id:	E2E41			
Number of ECTS:	4			
Teachers:	Sladić S. Goran, Milosavljević P. Branko			
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:

Students learn about the application of techniques and methods for the protection of data in e-business systems.

2. Educational outcomes (acquired knowledge):

Knowledge of methods and technologies for data protection. The studenta are able to use cryptographic methods and technologies, create a software for data protection in electronic business system, design and implement mechanisms for authentication and access control for different segments of e- business systems.

3. Course content/structure:

Cryptography: introduction, basic concepts, cryptographic protocols, algorithms, digital signatures, digital certificates. Symmetric and asymmetric encryption algorithms, hash functions, key exchange. Cryptographic standards. PKI infrastructure: key management, establishment of PKI, certificate authorities, hierarchy of certificate authorities. Security of XML documents: digital signatures, encryption, web services security. Smart card technology: organization, standards and use. Application of security concepts at the level of operating systems, databases, and computer networks. Authentication: single-factor authentication, two-factor authentication, passwords, challenge-response principle, attacks, Kerberos, HTTP authentication. Access control: concepts, elements, policies, mechanisms and models of access control.

4. Teaching methods:

Lectures. Computer practice. Consultations.
The examination is oral. The final grade is formed on the basis of achievement in the laboratory practice classes and oral examination.

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. Schneier	Applied Cryptography Protocols, Algorithms, and Source Code in C	Wiley, New York	1995
2,	William Stallings	Cryptography and Network security Principles and Ppractice, Fifth Edition	Pearson Education, Prentice Hall	2011
3,	David F. Ferraiolo, D. Richard Kuhn, Ramaswamy Chandramouli	Role-Based Access Control, Second Edition	Artech House	2007
4,	Blake Dournaee	XML Security	McGraw-Hill	2002

Table 5.2 Course specification

Course:		Software Patterns and Components
Course id:	E2S40	
Number of ECTS:	4	
Teachers:		Perišić R. Branko, Dejanović R. Igor
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 teach students basic theoretical knowledge, techniques, tools and best practices in the field of software patterns and Component-Based Development - CBD.
Students learn to recognize patterns in the context of the development of complex software products as well as to define the system architecture based on software components.

2. Educational outcomes (acquired knowledge):

Upon completion of the course students are able to recognize patterns and to understand their advantages and disadvantages in the development of complex software applications. They are also capable, for the task at hand, to select and apply the most appropriate component-based development platform, define system architecture through the decomposition into software components, define their interfaces and do the system implementation.

3. Course content/structure:

Theoretical lectures: Basic definitions and history of the development of software patterns. Categories of software patterns, design patterns, architectural patterns. Overview of popular patterns. Advantages and disadvantages. Catalogs of software patterns. Anti-Patterns; basic features, overview of typical anti-patterns. The component-based development, basic definitions; history. Review of existing component models. Advantages and disadvantages. Modeling applications architecture based on components. Software components markets.
Practical lectures: training in the use of modern tools for Component-Based Development. Implementation of the project task using modern tools and frameworks for component based development with emphasis on the proper use of software patterns.

4. Teaching methods:

Lectures, Computer exercises; Consultation. Design and implementation of project assignment by working within project teams. At the end of the semester, public presentations of the most successful teams are organized with the discussion of the obtained results. The defense of project assignment is oral. The final exam is oral. Final grade is based on the score from the final exam and project defense.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	McAffer, J.; Lemieux, J.-M. & Aniszczyk, C.	Eclipse Rich Client Platform	Addison-Wesley	2010
2,	C. Szyperski	Component Software: Beyond Object-Oriented Programming	Addison Wesley / Longman	2002
3,	E.Gamma, R.Helm, R.johnson, J. Vlaisides	Design Patterns Elements of Reusable Object-Oriented Software	Addison-Wesley	2005
4,	M. Grand	Patterns in Java: A Catalog of Reusable Design Patterns Illustrated with UML	Wiley	2002
5,	Scarpino, M.; Holder, S.; Ng, S. & Mihalkovic, L.	SWT/JFace in Action: GUI Design with Eclipse 3.0 (In Action series)	Manning	2004
6,	Rubel, D.; Clayberg, E. & Wren, J	The Eclipse Graphical Editing Framework (GEF)	Addison-Wesley	2011

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme Measurement and Control 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 Measurement and Control 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 Enginering and Information Technology, University of Hannover, Germany (http://www.et-inf.uni-hannover.de/etech-it.html?&L=1)

3. Faculty of Electrical Enginering, Graz University of Technology, Austria (http://portal.tugraz.at/portal/page/portal/TU_Graz/Studium_Lehre/Studien/ET_Bachelor)

4.<eng>http://www.uc.pt/ects/cursos/curso/index.php?idioma=2&id=194&idF=&idP=&name=&md</eng>

5. <eng>http://www.htwk-leipzig.de/english/fbeitenglish/eitbeng.html</eng>

6. <eng>http://www.eng.ucy.ac.cy/ECE/en/undergraduate/computerp.html</eng>

7. <eng>http://www-ee.stanford.edu/EEughb07-08.pdf</eng>

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 to the undergraduate academic studies in the study programme Measurement and Control 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.

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 minimum number of points which students can obtain by fulfillment of pre-exam obligations during the classes is 30, and the maximum is 70.

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.

Standard 09. Teaching Staff

For the realization of the study programme Measurement and Control 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 90% 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://knr.uns.ac.rs).

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.

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 carieer	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

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.	0M517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
15.	0ML517	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 (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
19.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (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.<\eng>
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.

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

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 carieer	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 refferences (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 Multylayer Perceptron", Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 15(5) 2001, pp. 425-431.

Representative refferences (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

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 carieer	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	Multiuser 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 refferences (minimum 5, not more than 10)

Representative refferences (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 Otawa 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

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 carieer	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 - Renewble 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 refferences (minimum 5, not more than 10)

1.	Bajovoć Vera: "Ekstrakcija obeležja za automatsku izgradnju stabala odlučivanja u tehničoj dijagnostici sa nedovoljnom apriornom informacijom", Fakultet tehničkih nauka u Novom Sadu, 1994.
2.	Neda Pekarić-Nađ, 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.

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Baloš S. Sebastian
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.04.2001
Scientific or art field:	Material Science and Engineering Materials

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials
Magister thesis	2009	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials

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

	ID	Course name	Study programme name, study type
1.	P206	Welding Technology	(P00) Production Engineering, Undergraduate Academic Studies
2.	P2406	Composite Materials	(P00) Production Engineering, Undergraduate Academic Studies
3.	P2409	Modern Joining Technologies - 1	(P00) Production Engineering, Undergraduate Academic Studies
4.	P2409A	Modern Joining Technologies - 2	(P00) Production Engineering, Undergraduate Academic Studies
5.	P4406	Joining Technology of Modern Materials	(P00) Production Engineering, Undergraduate Academic Studies
6.	II1001	Engineering materials	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	M2062	Mechanical engineering technologies 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	M3203	Technology of machinery	(M30) Energy and Process Engineering, Undergraduate Academic Studies
9.	ZC003	Electromechanical materials	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
10.	P2501	Process Design in Welding Technology	(PM0) Production Engineering, Master Academic Studies
11.	BMIM4G	Biomaterials	(BM0) Biomedical Engineering, Master Academic Studies
12.	PPI106	Joining technologies in precision engineering	(PM0) Production Engineering, Master Academic Studies
13.	PTS01	Technology of sintering	(PM0) Production Engineering, Master Academic Studies
14.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
15.	SAP002	Engineering Materials	(M00) Mechanical Engineering, Doctoral Academic Studies
16.	DP023	Joining technologies - selected topics	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DP024	Welding technology - selected topics	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	DP025	Materials Corrosion and Protection	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Baloš S., Šiđanin (Sidjanin) L.: Metallographic study of non-homogenousarmour impacted by armour-piercing incendiary ammunition, Materials and Design, 2011, Vol. 32, pp. 4022-4029, ISSN 0261-3069
2.	Baloš S., Arlan B., Alan P.: Roman mystery iron blades from Serbia , Materials Characterization, 2009, Vol. 60, No 4, pp. 271-276, ISSN 1044-5803
3.	Baloš S., Šiđanin (Sidjanin) L.: Microdeformation of soft particles in metal matrix composites, Journal of Materials Processing Technology, 2009, pp. 482-487, ISSN 0924-0136
4.	Baloš S., Arlan B., Alan P.: Roman mystery iron blades from Serbia, Microscopy and microanalysis, 2007, Vol. 13, No Supplement S02, pp. 1100-1101, ISSN 1431-9276
5.	Baloš S., Grabulov V., Šiđanin (Sidjanin) L., Pantić M.: Wire fence as applique armor, Materials and Design, 2010, Vol. 31, pp. 1293-1301, ISSN 0261-3069

Representative refferences (minimum 5, not more than 10)

6.	Baloš S., Grabulov V., Šiđanin (Sidjanin) L., Pantić M., Radisavljevic I.: Geometry, mechanical properties and mounting of perforated plates for ballistic application, Materials and Design, 2010, Vol. 31, pp. 2916-2924, ISSN 0261-3069
7.	Vrač D., Šiđanin (Sidjanin) L., Kovač P., Baloš S.: The influence of hohning process parameters on surface quality, productivity, cutting angle and coefficients of friction, Industrial Lubrication and Tribology, 2012, Vol. 64, No 2, pp. 77-83, ISSN 0036-8792
8.	Lazarević Z., Jovalekić Č., Sekulić D., Slankamenac M., Romčević M., Milutinović A., Baloš S., Romčević N.: Characterization of Nanostructured Spinel NiFe2O4 Obtained by Soft Mechanochemical Synthesis, Science of Sintering, 2012, Vol. 44, No 3
9.	Vrač D., Šiđanin (Sidjanin) L., Baloš S.: Mechanical finishing honing: cutting regimes and surface texture, Industrial Lubrication and Tribology, 2011, Vol. 63, No 6, pp. 427-432, ISSN 0036-8792
10.	Baloš S., Balos T., Šiđanin (Sidjanin) L., Marković D., Pilić B., Pavličević J.: Study of PMMA biopolymer properties treated by microwave energy, Materiale Plastice, 2011, Vol. 48, No 02, pp. 127-131, ISSN 0025-5289

Summary data for teacher's scientific or art and professional activity:

Quotation total :	15			
Total of SCI(SSCI) list papers :	13			
Current projects :	Domestic :	2	International :	0

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

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

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 (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, 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 (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
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 (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
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 refferences (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

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Bojanić M. Dubravka
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.06.2003
Scientific or art field:	Automatic Control and System Engineering - biomedicine

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering - biomedicine
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	School of Electrical Engineering - Beograd	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.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI007	Digital Signal Processing in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU07	Signals and systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
17.	SEAU08	Microprocessor Based Control Devices	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
18.	AU503	Methods of Analysing Electrophysiological Signals	(E20) Computing and Control Engineering, Master Academic Studies
19.	AU504	Movement Control	(E20) Computing and Control Engineering, Master Academic Studies
20.	AU505	Neural Prostheses	(E20) Computing and Control Engineering, Master Academic Studies
21.	AU507	Principles of Biomedical Engineering	(E20) Computing and Control Engineering, Master Academic Studies
22.	AU508	Information Flow in Medicine	(E20) Computing and Control Engineering, Master Academic Studies
23.	BMIM3A	Biophysiological systems modelling	(BM0) Biomedical Engineering, Master Academic Studies
24.	BMIM3C	Functional Electrical Therapy	(BM0) Biomedical Engineering, Master Academic Studies
25.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
26.	SEAM04	Soft Sensors	(SE0) Software Engineering and Information Technologies, Master Academic Studies
27.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies
28.	DAU008	Selected Chapters in Signal Processing in Biomedical Engineering	(E20) Computing and Control Engineering, Doctoral Academic Studies
29.	DAU009	Selected Chapters in Biomedical Instrumentation and Telemetry	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Popovic-Bijelic A., Bijelic G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
2.	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
3.	Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
4.	Popovic, M.B., Jorgovanovic, N., Bijelic, G., Bojanic, D., Popovic, D.B., Synergistic Control of Grasping and Releasing In Humans with Paralysis, Proc of REDISCOVER 2004 Southeastern Europe, USA, Japan and European Community Workshop on Research and Education in Control and Signal Processing, June 14-16, 2004, Cavtat, Croatia, pp 86-89.
5.	Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic-Bijelic, A., Popovic, D.B., Actitrode – a selective Array Electrode: A Tool to Generate Grasp and Release by Surface Electrical Stimulation, MEDICON, Ischia, July 31-August 5, 2004.
6.	Popovic-Bijelic, A., Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic, D.B., Popovic, M.B., Multi-field surface electrode for selective electrical stimulation, Proc 8th Vienna Workshop on FES, Sep 10-13, 2004., pp 195-198
7.	Bojanić D., Petrović R., Jorgovanović N., Popović D.: Dyadic Wavelets for Real-time Heart Rate Monitoring, 8. NEUREL - Symposium on Neural Network Applications in Electrical Engineering, IEEE, belgrade, 25-27 Septembar, 2006, pp. 133-136, ISBN 1-4244-0432-0
8.	Bojanic, D., Popovic, D.B., "QRS detection from an ongoing ECG recordings by using dyadic wavelets", 2nd European Medical and Biological Engineering Conference, Vienna, December, 2002.
9.	Bojanić D.: Razvoj ekspertnog sistema za interpretaciju elektrofizioloških signala, Doktorska disertacija, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, januar 2012.
10.	Bojanić Dubravka, "Detekcija QRS kompleksa u EKG signalu korišćenjem dyadic wavelet transformacije", Magistarska teza, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, februar 2003.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	62			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	1

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 carieer	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.	EI410	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.	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
10.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	MR0ULR	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 refferences (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.Ćirić, 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.

Representative refferences (minimum 5, not more than 10)

4.	D. Kukolj, 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

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.	HDOK1S	Selected topics in industrial robotics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	HDOK2S	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

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 refferences (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 Misunder-standings, 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

Science, arts and professional qualifications

Name and last name:	Bukurov Ž. Maša
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.11.1993
Scientific or art field:	Applied Fluid Mechanics - Hydro Pneumatic Technics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Fluid Mechanics - Hydro Pneumatic Technics
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1998	University of Novi Sad - Novi Sad	Environment Protection Engineering
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.	M205	Fundamentals of Fluid Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	M205L	Fundamentals in Fluid Mechanics	(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.	M212	Fluid Mechanics 1	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	M3301	Pumping and Compression Stations	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5.	M3306	Devices for Mechanical Purification	(M30) Energy and Process Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	M3403	Fluid Machines	(M30) Energy and Process Engineering, Undergraduate Academic Studies
7.	M3453	Measurement of fluid properties	(M30) Energy and Process Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	M3203	Technology of machinery	(M30) Energy and Process Engineering, Undergraduate Academic Studies
10.	M3401	Fluid Mechanics 2	(M30) Energy and Process Engineering, Undergraduate Academic Studies
11.	M3496	Pipeline Transportation	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	M3553	Pipe Networks Modelling	(M30) Energy and Process Engineering, Master Academic Studies
13.	M3513	Computational Fluid Dynamics	(M30) Energy and Process Engineering, Master Academic Studies
14.	S0MI12	Theory of ship's motion and maneuverability	(S00) Traffic and Transport Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	M. Milankov, Maša Bukurov, A. Jovanović, T. Somer, EXPERIMENTAL STUDY OF THE HYDRODINAMIC EFECTS OF IRRIGATION SUCTION DRAINAGE, Arch Orthop Trauma Surg 116 (4), p. 299-304, 1997.
2.	Maša Bukurov, Ž Bukurov, M. Lekić, D. Stojković, TRANSPORTATION BY RIVER IN FUNCTION OF ECO PROTECTION AND MORE EFFICIENT USAGE OF WATER WAYS, First European Inland Waterway Navigation Conference, Balatonfured, Jun, 9-11, 1999.
3.	Maša Bukurov, S. Tašin, B. Todorović, EFFICIENCY RATE OF STEAM-WATER INJECTOR FOR HOT WATER TRANSPORTATION, Proceedings of PSU-UNS International Conference 2003 ”ENERGY AND ENVIRONMENT” Thailand, Dec. 2003, PSUUNS 03021, p.126-129
4.	Maša Bukurov, S. Bikić, B. Todorović, S. Tašin, TRANSFORMATION OF STEAM ENERGY IN JET PUMP – EFFICIENCY RATE, 25th Yugoslav Congress on Theoretical and Applied Mechanics, Novi Sad, Jun, 2005
5.	M. Effenberger, A. Gronauer, Maša Bukurov, CONTRIBUTION TO ENVIRONMENTAL PROTECTION BY USAGE OF BIOGAS, Journal on Processing and Energy in Agriculture, 1450-5029 (2004) 8, 3-4, p.69-71
6.	Maša Bukurov, ENERGETSKO-EKOLOŠKO POBOLJŠANJE LINIJE ZA PROIZVODNJU KLINKERA SUVIM POSTUPKOM U FABRICI CEMENTA, magistarski rad, Univerzitet u Novom sadu, Centar za interdisciplinarne i multidisciplinarne studije inženjerstva zaštite životne sredine, 1998.
7.	Siniša Bikić, Maša Bukurov, IMPORTANCE OF OPEN CHANNEL CALIBRATION IN FLOW RATE MEASURING, Scintific conference 2, 2006, Rousse. (proceedings, volume 45, book 1, ISSN 1311-3321)
8.	Ž. Bukurov, Maša Bukurov, B. Todorović, S. Bikić, ZAKONITOSTI TRANSFORMACIONOG PROCESA ENERGIJE PARE U ENERGIJU PRITISKA KROZ PARO-VODENU MLAZNU PUMPU, Industrijska energetika 2004, Lepenski vir, oktobar 2004
9.	Maša Bukurov, Istraživanje svojstava nadyvučnog paro-vodenog injektora, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2004.
10.	38.Ž. Bukurov, Maša Bukurov, B. Todorović, S. Bikić, PODLOGE ZA ISTRAŽIVANjE ENERGIJSKO-STRUJNIH KARAKTERISTIKA U NADZVUČNOJ KOMORI ZA MEŠANjE PARO-VODENE MLAZNE PUMPE, Industrijska energetika 2004, Lepenski vir, oktobar 2004

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

Science, arts and professional qualifications

Name and last name:	Čapko Lj. Darko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	25.01.1999
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	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2002	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.	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
2.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
3.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
8.	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
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.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, 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

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

	ID	Course name	Study programme name, study type
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI034	Multi-tier applications development in Smart Grids	(ES0) Power Software Engineering, Master Academic Studies
15.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, 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 refferences (minimum 5, not more than 10)

1.	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., Vol. 4, No. 4, pp. 672-679, 2011., ISSN 1875-6891
2.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „A novel software architecture for Smart Metering systems“, Journal of Scientific and Industrial Research, Vol. 2010, No. 12, pp. 937-941, 2010., ISSN 0022-4456
3.	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, Vol. 40, No. 4, 2011., ISSN 1392-124X
4.	Čapko D., Erdeljan A., Popović M., Švenda G., “An Optimal Initial Partitioning of Large Data Model in Utility Management Systems”, Advances in Electrical and Computer Engineering, No. 4, 2011., ISSN 1582-7445
5.	Nedić N., Vukmirović S., Erdeljan A., Lendak I., Čapko D., „ A Genetic Algorithm Approach for Utility Management System Workflow Scheduling “, Information technology and control, Vol. 39, No. 4, pp. 310-316, 2010., ISSN 1392-124X
6.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., „Extension of the Common Information Model with Virtual Meter“, Electronics and electrical engineering, Vol. 107, No. 1, pp. 59-64, 2011., ISSN 1392-1215
7.	Čapko D., Erdeljan A., Švenda G., Popović M., „Dynamic Repartitioning of Large Data Model in Distribution Management Systems“, Electronics and electrical engineering, Vol. 121, No. 4, pp. 83-85,2012., ISSN 1392-1215
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks“, Journal of Applied Research and Technology, Vol. 10, No. 2, pp. 114-121, 2012., ISSN 1665-6423
9.	Vukmirovic, Srdjan; Erdeljan, Aleksandar; Lendak, Imre; Capko, Darko: Unifying the Common Information Model (CIM), REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE 2012 57 (3):301-310
10.	Velimir Congradac, Marta Prica, Marija Paspalj, Dubravka Bojanic, Darko Capko: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic,Solar Energy 86 (2012), pp 2762–2770

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

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
19.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies

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

	ID	Course name	Study programme name, study type
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 refferences (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

Science, arts and professional qualifications

Name and last name:	Ćosić P. Ilija
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.12.1972
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1983	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	1972	Faculty of Mechanical Engineering - 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.	M316	Production Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	II1017	Production System Design	(I10) Industrial Engineering, Undergraduate Academic Studies
3.	II1053	Production Systems	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
4.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	IM1039	Fundamentals of Operations management	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	IM1116	Work Study and Ergonomics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
7.	ZR401A	Science on Work	(Z01) Safety at Work, Undergraduate Academic Studies
8.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
9.	IMDSPI	Selected Chapters in Design for Excellence	(I12) Industrial Engineering, Specialised Academic Studies
10.	IS001	Effective management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
11.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
12.	IIDS5	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies
13.	IIDS9	Effective Production and Service Systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies

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

	ID	Course name	Study programme name, study type
14.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
15.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
16.	IM2119	Layout and location of the enterprise	(I20) Engineering Management, Master Academic Studies
17.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
18.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
19.	IMDR31	Effective Production and Service Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
20.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
21.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
22.	IMDRPI	Selected Chapters in Design for Excellence	(F00) Graphic Engineering and Design, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23.	IMDR5	Selected chapters in enterprise's design, organization and control	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies
26.	ZRD28A	Selected topics in the science of occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ćosić I.: Development of Knowledge-Based Syslem for the Configuralion of Assembly Systems, Knowledge-Based Selection arid Arragement of Parts Bins at Assembly Workplaces (TEBES) - Europian Communities Brusseles, 1991
2.	Suzić N., Anišić Z., Ćosić I.: Reconfiguring Production and Organizational Structures for Mass Customization in Furniture Industry; Chapter 20 of Innovative Production Systems Key to Future Inteligent Manufacturing; Scientific Monography, Maribor, University of Maribor, Faculty of Mechanical Engineeing, Maribor; Faculty of Mechanical Engineering, Skopje, 2010, str. 257-275, ISBN 978-961-248-250-3
3.	Firstner (Fürstner) I., Anišić Z., Ćosić I.: Integrated product development in Internet surroundings, DAAAM International Scientific Book 2005, Beč, Published by DAAAM International Viena, 2005, str. 179-192, ISBN 1726-9687
4.	Pečujlija M., Ćosić I., Ivanišević V.: A professor's moral thinking at the abstract level vs the professor's moral thinking in real life situation (consistency problem), Science and Engineering Ethics, 2011, Vol. 17, No 2, pp. 299-320, ISSN 1353-3452
5.	Zelenović D., Ćosić I., Šormaz D., Šišarica Z.: An approach to the design of more effective production systems , International Journal of Production Research, 1987, Vol. 25, No 1, pp. 3-15, ISSN 0020-7543
6.	Lazarević M., Ostojić G., Ćosić I., Stankovski S., Vukelić Đ., Zečević I.: Product lifecycle management (PLM) methodology for product tracking based on radio-frequency identification (RFID) technology, Scientific Research and Essays, 2011, Vol. 6, No 22, pp. 4776-4787, ISSN 1992-2248
7.	Tešić Z., Lalić D., Ćosić I., Mitrović V.: Integration of information for manufacturing shop control, Strojniski vestnik = Journal of Mechanical Engineering, 2010, Vol. 56, No 3, pp. 217-223, ISSN 0039-2480
8.	Stankovski S., Lazarević M., Ostojić G., Ćosić 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
9.	Zelenović D., Ćosić I., Maksimović R.: IIM - prilaz u razvoju efektivnih proizvodnih sistema za budućnost, Tehnika, 2010, Vol. 65, No 3, pp. 125-133, ISSN 0040-2176, UDK: 322.5:330.352.46
10.	Lalić B., Ćosić I., Anišić Z.: SIMULATION BASED DESIGN AND RECONFIGURATION OF PRODUCTION SYSTEMS , International journal of Simulation Modelling-IJSIMM, 2005, Vol. 4, No 4, pp. 173-183, ISSN 1726-4529

Summary data for teacher's scientific or art and professional activity:

Quotation total :	96			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Dejanović R. Igor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 16.10.2000
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2000	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.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT3A	Metodologije i sistemi za upravljanje IT resursima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT48	Tehnologije i sistemi za podršku korisnicima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	SES202	Model Driven Software Development	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SES204	Advanced Programming Tecnics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	E2510	Software Configuration Management	(E20) Computing and Control Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	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
14.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Gordana Milosavljević, Igor Dejanović, Branko Perišić: Brz razvoj adaptivnih poslovnih informacionih sistema, Yu Info, Kopaonik: 11-14 mart, 2007
2.	*****Dejanović I., Perišić B., Milosavljević G.: Implementacija XText DSL-a uz oslonac na arpeggio parser, YU Info 2011 (CD), 6 pages
3.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24
4.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94
5.	*****Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf
6.	Dejanović I., Perišić B., Milosavljević G.: Arpeggio: pakrat parser interpreter, 16. YU INFO, Kopaonik, 1-8 Mart, 2010
7.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: Primena savremenih tehnika razvoja softvera u izradi studentskih projekata, 15. YU INFO, Kopaonik, 1-8 Mart, 2009
8.	Dejanović I., Milosavljević G., Perišić B.: Uporedni prikaz dva popularna MDSD/MDA alata otvorenog koda , 13. YU INFO, Kopaonik, 1-8 Mart, 2005
9.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
10.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

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

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.	0M503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M509	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0M511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML509	Applaid Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
12.	0ML511	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

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 (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 refferences (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 Stranhlenchemije, 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 Juornal 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, Czechoslovaka 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

Science, arts and professional qualifications

Name and last name:	Dragutinović D. Gordan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	06.04.1980
Scientific or art field:	Termodynamics and Heat Transfer

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Termodynamics and Heat Transfer
PhD thesis	1987	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
Magister thesis	1983	Faculty of Mechanical Engineering - Beograd	Thermal Energetics and Thermotechnics
Bachelor's thesis	1977	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.	M203	Fundamentals of Thermodynamics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	M203L	Fundamentals in Thermodynamics	(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
3.	M210	Thermodynamics	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	M215	Fundamentals of Heat Transfer	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5.	M3303	Fundamentals of Process Engineering	(M30) Energy and Process Engineering, Undergraduate Academic Studies
6.	URZP31	Fundamentals of Thermodynamics with Heat Transfer	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	GS013	Special topics of building physics and thermodynamics	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
8.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
9.	M3508	Mass Transfer	(M30) Energy and Process Engineering, Master Academic Studies (M40) Technical Mechanics and Technical Design, Master Academic Studies
10.	DM307	Selected Chapters in Mass Transfer	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	DM313	Process Kinetics	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Dragutinovic, G.D., Baclic, B.S. "Operation of Counterflow Regenerators", Book Vol. 4 in Series "Developments in Heat Transfer", Computational Mechanics Publications, Southampton, 1998.
2. Baclic, B.S. and Dragutinovic, G.D., “Asymmetric-unbalanced Counterflow Thermal Regenerator Problem: Solution by the Galerkin Method and meaning of dimensional Parameters, Int. J. Heat Mass Transfer, Vol.34, No. 2, 1991, pp. 483-498.

Representative refferences (minimum 5, not more than 10)	
3.	Dragutinovic, G.D., Baclic, B.S., “Interpolation and collocation methods for prediction of thermal regenerator performances”, Thermal Science, Vol. 12, No. 4, 1996. pp. 307-327.
4.	Baclic, B.S., Heggs, P.J., and Dragutinovic, G.D., “Prediction of the Effectiveness of Unbalanced - Asymmetric Counterflow Regenerators", Publications of the Faculty of Technical Sciences, Vol. 15, 1984, pp. 1-15, University of Novi Sad.
5.	Baclic, B.S., Gvozdenac, D.D., and Dragutinovic, G.D., “Easy way to calculate the Amzelius-Schumann J function", Thermal Science, Vol. 1, No. 1, 1997, pp. 109-116.
6.	Dragutinović, D.G., Dimić, M., Sinteza optimalnih mreša toplotnih razmenjivača, Termotehnika, 1, 1998.
7.	Bašić, Đ., Petrović, J., Marić, M., Dragutinović, G., i dr., Mogućnost korišćenja energetskog potencijala geotermalnih voda u Vojvodini, Novi Sad, Prometej, 2009
8.	Martinov, M., Dragutinović, G., i dr., Mogućnost kombinovane proizvodnje električne i toplotne energije iz biomase u AP Vojvodini, Novi Sad, PSEMR AP Vojvodina, 2008
9.	Nedeljkov, M., Dragutinović, G., Mathematical Simulation od Deep-Bed Drying of Grains - A numerical simulation, CHISA, Prag, avgust 1987
10.	Nedeljkov, M., Dragutinović, G., Mogućnosti i uslovi racionalizacije procesa konvektivnosg sušenja zrnastih poljoprivrednih proizvoda, 7. simpozijum termičara, Ohrid, maj 1984.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	11			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	2	International :	0

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

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 refferences (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., Damnjanović 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., Kavecan 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 Avgust, 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

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 carieer	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

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 refferences (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

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

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

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 (Inđija), Undergraduate Professional Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, 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 (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
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 (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
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 refferences (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, Metodički vidici, Filozofski fakultet Novi Sad, str.78-82, Novi Sad, 2011.

Representative refferences (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 :	

Science, arts and professional qualifications

Name and last name:	Gerić D. Katarina
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 02.12.1976
Scientific or art field:	Material Science and Engineering Materials

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials
PhD thesis	1997	Faculty of Technology and Metallurgy - Beograd	Material Science and Engineering Materials
Magister thesis	1985	Faculty of Technology and Metallurgy - Beograd	Material Science and Engineering Materials
Bachelor's thesis	1974	Faculty of Technology and Metallurgy - Beograd	Metallurgical Engineering

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

	ID	Course name	Study programme name, study type
1.	H106	Materials in Mechanical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
2.	M105	Mechanical 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 (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	P2412	Contemporary Materials	(P00) Production Engineering, Undergraduate Academic Studies
4.	P3401	Characteristics and Application of Plastic Materials	(P00) Production Engineering, Undergraduate Academic Studies
5.	ZC003	Electromechanical materials	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	ZRI42A	Safety at work in metallurgy and thermochemical treatment of metal	(Z01) Safety at Work, Undergraduate Academic Studies
7.	P2502	Properties and Selection of Materials	(PM0) Production Engineering, Master Academic Studies
8.	PTS01	Technology of sintering	(PM0) Production Engineering, Master Academic Studies
9.	DM214	Selected Chapters in Working Strength	(M00) Mechanical Engineering, Doctoral Academic Studies
10.	SAP002	Engineering Materials	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	SAP004	Fracture Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Vratnica, M., Pluvinage, G., Jodin, P., Cvijović, Z., Rakin, M., Burzić, Z., Gerić, K.: Notch fracture toughness of high-strength Al alloys, Materials and Design, 2013, Vol. 44, pp. 303-310, ISSN: 0261-3069.
2. Cvijovic Z,Vratnica M, Geric K: Fractographic analysis of fatigue damage in 7000 aluminium alloys, Journal of Microscopy, Vol 232, 2008, pp. 589-594
3. Stasevic, M., Maksimovic, S., Geric, K., Burzic, Z., Vasovic, I.: Fatigue crack propagation models: Numerical and experimental comparisons, Technics Technologies Education Management - TTEM, 2012, Vol. 7, No. 2, pp. 801-810, ISSN: 1840-1503.
4. Stašević, M., Maksimović, S., Gerić, K., Burzić, Z., Maksimović, M.: Fatigue crack growth prediction from low cycle fatigue properties, Strojarstvo, 2011, Vol. 53, No. 3, pp. 171-178, ISSN: 0562-1887.
5. Vratnica M, Cvijovic Z, Geric K, The role of Intermetallic Phases in Fatigue Crack Propagation Behavior of Al-Zn-Mg-Cu alloy, Material Science Forum vol. 555, 2007, pp 553-558
6. Gerić K., Sedmak S., Glavardanov I. : Fracture mechanics parameters of heat affected zone of high strength microalloyed steel, Metallurgy and new materials researches. Vol.II, No.1-2, 1994, 114-125
7. Sedmak S., Gerić K.: Evaluation of crack significance in velded joint by fracture mechanic approach, Kovine, zlitine tehnologije1-2, 32, 1998, 21-27
8. Gerić K, Glavardanov I, Sedmak S.: Relability and Structural integrity of advanced materials, deo J integral and Final Strech zone for crack in HSLAof Undermatched and Overmatched weldments, EMAS Publication LTD, pp. 996-1005
9. Gerić K.: Prsline u zavarenom spoju, monografija, Fakultet tehničkih nauka, Novi Sad, 2005.

Representative refferences (minimum 5, not more than 10)

10.	Gerić K.: Fractographic Analysis, part of monograph “From fracture mechanics to structural integrity assessment”, 8. International fracture mechanics summer-school, Belgrade 2004, pp. 147-158

Summary data for teacher's scientific or art and professional activity:

Quotation total :	2			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Gostojić L. Stevan
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:	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
Master's thesis	2006	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.	RI41	Internet Software Architectures	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	SEI41	Internet Software Architectures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	ISIT12	Osnove informacionih sistema	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional 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.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2523	Social Networks	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	E2536	Mobile Application Development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies
11.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Gostojić S.: Ontological Model of Legal Norms for Creating and Using Legislation, Computer Science and Information Systems (ComSIS), 2012, ISSN 1820-0214
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

Representative refferences (minimum 5, not more than 10)	
3.	Gostojić S., Sladić G., Milosavljević B., Konjović Z.: Flexible Access Control for Judicial Processes, 6. International Conference on Methodologies, Technologies aand Tools Enabling e-Government - MeTTeG12, Beograd: Fakultet tehničkih nauka, Novi Sad, , pp. 44-55, ISBN 978-86-7892-413-2
4.	Gostojić S., Sladić G., Milosavljević B.: Importing Document Hierarchy in the Alfresco System, 1. International Conference on Information Society Technology and Management, Kopaonik, 7-8 Mart, 2011
5.	Sladić G., Gostojić S., Milosavljević B., Konjović Z.: Handling Structured Data in the Alfresco System, 1. International Conference on Information Society Technology and Management, Kopaonik, 7-8 Mart, 2011, pp. 78-82
6.	Gostojić S., Konjović Z., Milosavljević B.: Modeling MetaLex/CEN Compliant Legal Acts, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica,
7.	Arsovski S., Konjović Z., Milosavljević B., Gostojić S.: Editori za dokumente pravne regulative bazirani na otvorenim standardima i otvorenim izvorima, 16. YU INFO, Kopaonik, 1-8 Mart, 2010
8.	Gostojić S., Sladić G., Vidaković M.: Arhiviranje dokumenata u Alfresco sistemu, 15. YU INFO, Kopaonik, 1-8 Mart, 2009
9.	Sladić G., Milosavljević B., Gostojić S.: Digitalno potpisivanje dokumenata u Alfresco sistemu, 15. YU INFO, Kopaonik, 1-8 Mart, 2009
10.	Konjović Z., Milosavljević B., Sladić G., Gostojić S.: Sistem za uprvljanje elektronskim dokumentima, 2010

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	2	International :	0

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

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 refferences (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 Apllications, 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

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.	0M505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
13.	0ML505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies

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 engledskom), 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 refferences (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

Representative refferences (minimum 5, not more than 10)

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

Summary data for teacher's scientific or art and professional activity:

Quotation total :	17			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	2	International :	0

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 carieer	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 refferences (minimum 5, not more than 10)

1. Hajduković M., “Programski jezik CONCERT”, Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Ivanović 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 01.04.2007
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	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2006	Faculty of Technical Sciences - Novi Sad	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.	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.	GG11	Fundamentals in Computing	(G00) Civil Engineering, Undergraduate Academic Studies
3.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT32	Technologies and platforms for digital contents and documents management	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	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
8.	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
9.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	E2507	Digital Archives	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

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

	ID	Course name	Study programme name, study type
11.	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
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.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
15.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies
16.	DRNI13	Selected Topics in Scientific-research Activity managament	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ivanović, D., Surla, D. & Racković, M. (2010), “A CERIF data model extension for evaluation and quantitative expression of scientific research results”, Scientometrics, DOI 10.1007/s11192-010-0228-2, Vol. 86, No. 1, pp. 155-172
2.	Ivanovic, L., Ivanovic, D., Surla, D. (2012), “A data model of theses and dissertations compatible with CERIF, Dublin Core and EDT-MS”, Online Information Review, Vol. 36, No. 4, pp. 568-586
3.	Ivanović, D., Milosavljević, G., Milosavljević, B. & Surla, D. (2010), “A CERIF-compatible research management system based on the MARC 21 format”, Program: Electronic libarary and information systems, DOI: 10.1108/00330331011064249, Vol. 44, No. 3, pp. 229-251
4.	Ivanović, D., Surla, D. & Konjović, Z. (2010), “CERIF compatible data model based on MARC 21 format”, The Electronic Library, DOI: 10.1108/02640471111111433, Vol. 29, No. 1, pp. 52-70
5.	Milosavljević, G., Ivanović, D., Surla, D. & Milosavljević, B. (2010), “Automated Construction of the User Interface for a CERIF-Compliant Research Management System”, The Electronic Library, Vol. 29, No 5, pp. 565-588
6.	Kovacevic, A., Ivanovic, D., Milosavljevic, B., Konjovic, Z., Surla, D. (2011), “Automatic extraction of metadata from scientific publications for CRIS systems”, Program: electronic library and information systems, Vol. 45, No. 4, pp.376 – 396, DOI: 10.1108/00330331111182094
7.	Ivanović, L., Ivanović, D., Surla, D. (2012), Integration of a Research Management System and an OAI-PMH Compatible ETDs Repository at the University of Novi Sad, Republic of Serbia, Library resources and Technical services, Vol. 56, No. 2, pp. 104-112
8.	Ivanović D., Surla D., Racković M.: Journal evaluation based on bibliometric indicators and the CERIF data model, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 791-811, ISSN 1820-0214
9.	Informacioni sistem naučno-istraživačke delatnosti
10.	Ivanović D.: Sistemi za skladištenje naučnih sadržaja, Zadužbina Andrejević, 2011, ISBN 978-86-7244-916-7

Summary data for teacher's scientific or art and professional activity:

Quotation total :	72			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Jeličić D. Zoran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.11.1995
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	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	1995	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.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(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.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	F404	Modelling, Simulation and Control	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
7.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
8.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E2316	Real-time control systems	(E20) Computing and Control 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.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
16.	DAU005	Selected Chapters in Optimization Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Jeličić Z., Kulić F., Čongradac V., Kanović Ž., Živković S.,Praktikum Savremena merenja i instrumentacija iz programa Lifelong Learning, INDAS, 2003.
2.	Jeličić Zoran; Petrovački Nebojša; Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, Structural and Multidisciplinary Optimization ISSN: 1615-147X ,Vol. 38, No. 6, Str. 571-581, Springer;
3.	Rapaić Milan; Pisano Alessandro; Jeličić Zoran; Usai Elio; Sliding mode control approaches to the robust regulation of linear multivariable fractional order dynamics - International Journal of Robust and Nonlinear Control Volume 20, Issue 18, pages 2045–2056, December 2010
4.	Rapaić Milan; Jeličić Zoran; Optimal control of a class of fractional heat diffusion systems , Nonlinear Dynamics Volume 62, Numbers 1-2, 39-51, DOI: 10.1007/s11071-010-9697-3 , Springer;
5.	Z. D. Jeličić, T. M. Atanacković, Optimal shape of a vertical rotating column, International Journal of Non-Linear Mechanics, 42, 172 – 179, (2007) .
6.	Zeljko Kanovic, Milan R Rapaic, Zoran D Jelicic, Generalized particle swarm optimization algorithm-Theoretical and empirical analysis with application in fault detection, Applied mathematics and computation, Volume 217, Issue 24, 15 August 2011, Pages 10175–10186.
7.	Jeličić, Z. D. Atanacković, T. M.,On an optimization problem for elastic rods, STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, (2006) vol.32 br.1 str. 59-64
8.	Milena Petković, Milan R Rapaić, Zoran D Jeličić, Alessandro Pisano, On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39, Issue 11, 1 September 2012, Pages 10226–10235.
9.	T. M. Atanacković, Z. D. Jeličić, Optimal shape and deformations of a lifting line with winglets. Bulletin de l"Académie Serbe des Sciences et des Arts. Classe des Sciences techniques 29, 57-79 (2003).
10.	T. M. Atanackovic, Y. Huo, Z. Jelicic, I. Mueller, Phase diagrams modified by interfacial penalties, Theoret. Appl. Mech., Vol.34, No.4, pp. 301-338, Belgrade 2007.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	105			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Jorgovanović Đ. Nikola
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.11.1999
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	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1996	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
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.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI006	Satellite Navigation and Navigation Service	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI206	Systems and Signals in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	Z411	Fundamentals of Instrumentation and Control	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
15.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
16.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	SEAU08	Microprocessor Based Control Devices	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
18.	AU504	Movement Control	(E20) Computing and Control Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
19.	AU505	Neural Prostheses	(E20) Computing and Control Engineering, Master Academic Studies
20.	AU507	Principles of Biomedical Engineering	(E20) Computing and Control Engineering, Master Academic Studies
21.	BMIM3B	Soft Sensors	(BM0) Biomedical Engineering, Master Academic Studies
22.	BMIM3C	Functional Electrical Therapy	(BM0) Biomedical Engineering, Master Academic Studies
23.	BMIM5C	Brain Computer Interface	(BM0) Biomedical Engineering, Master Academic Studies
24.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
25.	SEAM04	Soft Sensors	(SE0) Software Engineering and Information Technologies, Master Academic Studies
26.	DAU008	Selected Chapters in Signal Processing in Biomedical Engineering	(E20) Computing and Control Engineering, Doctoral Academic Studies
27.	DE518	Brain Computer Interface Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
28.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DAU009	Selected Chapters in Biomedical Instrumentation and Telemetry	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Popović Maneski L., Jorgovanović N., Ilić V., Došen S., Keller T., Popović B. M., Popović B. D.: Electrical stimulation for the suppression of pathological tremor, MED BIOL ENG COMPUT, 2011, Vol. 49, No 10, pp. 1187-1193, ISSN 0140-0118
2.	Popović-Bijelić A., Bijelić G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
3.	Malešević N., Popović Maneski L., Ilić V., Jorgovanović N., Bijelić V., Keller T., Popović D.: A multi-pad electrode based functional electrical stimulation system for restoration of grasp, J NEUROENG REHABIL, 2012, Vol. 9, No 66, ISSN 1743-0003
4.	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
5.	Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
6.	Krasnik R., Mikov A., Ilić V., Jorgovanović N., Demeši Drljan Č.: The use of Dynamic Electromyography in Gait Analysis, HealthMED, 2011, Vol. 5, No 4, pp. 888-893, ISSN 1840-2291
7.	Jorgovanović N., Došen S., Petrović R.: Novel Electronic Stimulator for Functional Electrical Therapy, Journal of Automatic Control, 2005, Vol. 15, No 5, pp. 27-30, UDK: 621.3-52
8.	Jorgovanović N.: Upravljanje funkcionalnom električnom stimulacijom za neurorehabilitaciju pokreta, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2003
9.	Jorgovanović N.: NEURON - neuronski računarski sistem, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 1996
10.	Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić I., Jorgovanović N., Tepić Ž., Bojanić D., Stanišić D., Ilić V., Pržulj Đ.: Geografski informacioni sistem za potrebe Ministarstva zaštite životne sredine, 2010

Summary data for teacher's scientific or art and professional activity:

Quotation total :	81			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	1

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

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

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

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 (Inđija), 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 - Renewble 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 (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 refferences (minimum 5, not more than 10)

Representative refferences (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

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.	0M501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0ML501	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 engledskom), 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

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 (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 refferences (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.Ćurić, 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

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 carieer	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

Representative refferences (minimum 5, not more than 10)	
1.	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)
2.	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, Izdavac: IEEE Consumer Electronic Society, 2009.
3.	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.
4.	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, Izdavac: IEEE, 2009.
5.	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, Izdavac: IEEE, 2009.
6.	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, Izdavac:ECBS
7.	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, Izdavac: IEEE, 2007.
8.	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.
9.	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:, Izdavac: IBC 2011
10.	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, Izdavac: Društvo za telekomunikacije – TELFOR

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

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 carieer	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 - Renewble 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 refferences (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 EXCITION-EXCITION AND EXCITION-PHONON INTERACTION ON CRYSTALS DIELECTIC PROPERTIES", Can. J. Phys. 60, 1838(1982)
3.	U.F. Kozmidis-Luburić and B.S. Tošić, "KINEMATICAL INTERACTION OF OPTICAL EXCITATION AND CONSEQUENCES", Physica A 153, 266(1988)

Representative refferences (minimum 5, not more than 10)

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.Ćirić,"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

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 carieer	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

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 refferences (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 salicyladehyde 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) mathylpyrazole, Journal of Thermal Analysis, 47, 879-886,
4.	S. R. Lukić, D. M. Petrović, A. F. Petrović: Effect of copper on conductivity of amorphous AsSeyIz, 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 Ge20As14SxSe52-xI14, 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

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 carieer	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

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 refferences (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.

Representative refferences (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

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 refferences (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 tehnologies 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 Intnl. 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

Science, arts and professional qualifications

Name and last name:	Lalić P. Bojan
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:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2011		Production Systems, Organization and Management
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	2001	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.	EOS39	Projektni menadžment	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	II1017	Production System Design	(I10) Industrial Engineering, Undergraduate Academic Studies
3.	II1019	Project Management	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	IM1019	Commercial Processes	(I20) Engineering Management, Undergraduate Academic Studies
5.	IM1026	E-Business	(I20) Engineering Management, Undergraduate Academic Studies
6.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	IM1046	Structural and Development Projects	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1104	Strategic Management	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1106	Business Process Simulation	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
10.	IM1319	Platforms and systems for knowledge transfer	(I20) Engineering Management, Undergraduate Academic Studies
11.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
12.	IS001	Effective management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
13.	MBA304	Business Strategies	(IB0) Engineering Management - MBA, Specialised Professional Studies
14.	MBA413	Knowledge Systems and Project Management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
15.	MBA601	Applied use of IT and Internet in business	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
16.	PLM05	Management of PLM Projects	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies

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

	ID	Course name	Study programme name, study type
17.	SZP003	Selected Chapters in Applied Management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
18.	RPR005	Project Cycle Management	(RPR) Regional Development Planning and Management, Master Academic Studies
19.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
20.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
21.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
22.	IM2307	Strategic Project Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
23.	IM2314	Program and Portfolio management	(I20) Engineering Management, Master Academic Studies
24.	IM2316	Theory of Constraints	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
25.	IM2319	Project evaluation	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
26.	IM2922	eHRM	(I20) Engineering Management, Master Academic Studies
27.	IMDS71	Selected topics of project management	(I22) Engineering Management, Specialised Academic Studies
28.	S1I594	E-Business	(S01) Postal Traffic and Telecommunications, Master Academic Studies
29.	UP002	Applied Project Cycle Management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
30.	IMDR71	Selected topics of project management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
31.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Lalić, B., Ćosić I., Anišić, Z.: SIMULATION BASED DESIGN AND RECONFIGURATION OF PRODUCTION SYSTEMS, International journal of Simulation Modelling, IJSIMM, issn 1726-4529, Volume 4, Number 4, pp. 173-183, Vienna, Austria, December 2005.
2.	R. Maksimovic, B.Lalić; Flexibility and Complexity of Effective Enterprises, Strojniski Vesnik, 2008.
3.	Lalić D., Marjanović U., Lalić B.: The influence of social networks on communication satisfaction within the organizations. In: M.M. Cruz-Cunha, P. Goncalves, N. Lopes, E.M. Miranda and G.D. Putnik, ed. Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions., New York, Business Science Reference (IGI Global), 2011, str. 545-566, ISBN 978-1-61350-168-9
4.	Lalić B., Marjanović U.: Organizational Readiness/Preparedness. In: M.M. Cruz-Cunha and J. Varajao, ed. E-business issues, challenges and opportunities for SMEs: driving competitiveness., New York, Business Science Reference (IGI Global), 2011, str. 101-116, ISBN 978-1-61692-880-3
5.	Simeunović N., Ćosić I., Radaković N., Lalić B.: The General Work Procedure Model for the Service Product, Beč, DAAAM International Scientific Book, 2009, str. 281-288, ISBN 987-3-901509-71-1, UDK: ISSN 1726-9687
6.	Lalić B., Palčič I.: Analytical Hierarchy Process as a Tool for Selecting and Evaluating Projects, International journal of Simulation Modelling-IJSIMM, 2009, Vol. 8, No 1, pp. 16-26, ISSN 1726-4529
7.	Lalić B., Ćosić I., Anišić Z.: SIMULATION BASED DESIGN AND RECONFIGURATION OF PRODUCTION SYSTEMS , International journal of Simulation Modelling-IJSIMM, 2005, Vol. 4, No 4, pp. 173-183, ISSN 1726-4529
8.	Jovanovic M., Moreno Perez J., Lalić B., Todorovic V., Jovanović M.: Use of cost analysis, estimation and risk management in making project management decisions in construction, Projektna mreza Slovenije - Project Management Review, 2010, Vol. 8, No 3, pp. 4-9, ISSN 1580-0229
9.	Lalić B., Ćosić I., Poli M.: Project Strategy Matching Project Structure to Project Type to Achieve Better Success, International Journal of Industrial Engineering and Management - IJIEM, 2010, Vol. 1, No 1, pp. 29-40, ISSN 2217-2661

Representative refferences (minimum 5, not more than 10)

10.	Poli M., Mithiborwala H., Maksimović R., Lalić B.: PROJECT STRATEGY: SELECTING THE BEST PROJECT STRUCTURE, 9. PICMET Conference, Portland: Portland International Center for Management of Engineering and Technology, 2-6 Avgust, 2009, pp. 1276-1281, ISBN 978-1-890843-20/5

Summary data for teacher's scientific or art and professional activity:

Quotation total :	4			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Lazarević M. Milovan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	11.11.2000
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management

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

	ID	Course name	Study programme name, study type
1.	EOS19	Dismantling and recycling technologies	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	M316	Production Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	II1012	Assembly Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	II1017	Production System Design	(I10) Industrial Engineering, Undergraduate Academic Studies
5.	II1037	Disassembly and recycling technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	II1053	Production Systems	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	IM1114	Energy Flows in the Enterprise	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1119	Product management at end of life	(I20) Engineering Management, Undergraduate Academic Studies
10.	EI504	Management of Small and Medium Enterprises	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
12.	IMDS56	Product traceability during the lifetime	(I12) Industrial Engineering, Specialised Academic Studies
13.	IMDS57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I12) Industrial Engineering, Specialised Academic Studies
14.	IMDS93	Virtual Enterprises and Collaborative Systems	(I22) Engineering Management, Specialised Academic Studies
15.	MBA411	Business intelligence concepts	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
16.	PLM02	Product Development and Management in PLM	(I10) Industrial Engineering, Master Academic Studies (I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies

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

	ID	Course name	Study programme name, study type
17.	PLM06	Technologies for Disposal at the Products End-Of-Life	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
18.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
19.	IIDR5S	Advanced Engineering Technologies	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (M50) Energy Management, Master Academic Studies
20.	IIDS10	Effective technological and production structures	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
21.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
22.	IM2120	Virtual Enterprises	(I20) Engineering Management, Master Academic Studies
23.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
24.	PLM02	Applied Product Development	(I20) Engineering Management, Specialised Professional Studies
25.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
26.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
28.	IMDR93	Virtual Enterprises and Collaborative Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
29.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vukelić Đ., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič J., Simeunović N.: Machining fixture assembly/disassembly in RFID environment, Assembly Automation, 2011, Vol. 31, No 1, pp. 62-68, ISSN 0144-5154
2.	Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M. : IML Robot Grasping Process Improvement (Article in press, Date of acceptance 14. March 2010), Iranian Journal of Science & Technology, Transactions B, 2011, ISSN 1028-6284
3.	Ostojić G., Lazarević M., Stankovski S., Ćosić I. : RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, Broj 11, str. 759-767, ISSN 0039- 2480, UDK: 658.5
4.	Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R. : RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, Broj 4, str. 364-370, ISSN 0144-5154
5.	Lazarević M., Ostojić G., Ćosić I., Stankovski S., Vukelić Đ., Zečević I.: Product lifecycle management (PLM) methodology for product tracking based on radio-frequency identification (RFID) technology, Scientific Research and Essays, 2011, Vol. 6, No 22, pp. 4776-4787, ISSN 1992-2248
6.	Ostojić G., Stankovski S., Vukelić Đ., Lazarević M., Hodolič J., Tadić B., Odri S.: Implementation of automatic identification technology in a process of fixture assembly/disassembly, Strojniški vestnik - Journal of Mechanical Engineering, 2011, Vol. 57, No 11, pp. 819-825, ISSN 0039-2480
7.	Lazarević M., Ostojić G., Stankovski S., Ćosić I.: Postupak upravljanja proizvodom u celokupnom životnom veku korišćenjem RFID taga, Broj priznatog patenta: 51796, datum priznavanja 24.10.2011. godine., 2011
8.	Ostojić G., Jovanović V., Stankovski S., Lazarević M.: RFID Product and Part Tracking for the Preventive Maintenance, 4. ASME International Manufacturing Science and Engineering Conference (MSEC), West Lafayette: American Society of Mechanical Engineeris (ASME), 4-7 Oktobar, 2009, ISBN 978-0-7918-3859-4
9.	Stankovski S., Ostojić G., Lazarević M.: Chapter 14: RFID technology in product lifecycle management, In: Engineering the Future, Bombay, Scyio, 2010, str. 281-296, ISBN 978-953-307-210-4
10.	Vukelić Đ., Tadić B., Hodolič J., Budak I., Lazarević M.: Development an expert system for machining fixture design, 10. International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI, Banja Luka: Faculty of Mechanical Engineering, 26-28 Maj, 2011, pp. 303-308, ISBN 978-99938-39-36-1

Summary data for teacher's scientific or art and professional activity:

Quotation total :	11
Total of SCI(SSCI) list papers :	6

Current projects :	Domestic :	4	International :	3

Science, arts and professional qualifications

Name and last name:	Lendak I. Imre
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.02.2005
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	2007	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2002	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.	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
2.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI011	Software security and safety in power engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI017	Mobile computing 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.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
11.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
13.	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
14.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
15.	ESI037	Smart Grid security and safety	(ES0) Power Software Engineering, Master Academic Studies
16.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
17.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Lendak I., Erdeljan A. & Popović D. (2011), „Algorithm for cataloguing topologies in the Common Information Model (CIM)“, Computers and mathematics with applications, February 2011, vol 61 (3), pp. 715-721. DOI 10.1016/j.camwa.2010.12.021
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), „Optimization of workflow scheduling in Utility Management System with hierarchical neural network“, International Journal of Computational Intelligence Systems, 2011, vol 4 (4), pp. 672-679.
3.	Lendak I., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdeljan A. (2012), “Client Side Internet Technologies in Critical Infrastructure Systems”, International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.
4.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), „Unifying the Common Information Model (CIM)“, Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, 2012, vol 57 (3), pp. 301-310.
5.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), “Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks”, Journal of Applied Research and Technology, 2012, vol 10 (2), pp. 114-121.
6.	Čapko D., Erdeljan A., Vukmirović S. & Lendak I. (2011), „A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems“, Information Technology and Control, 2011, vol 40 (4), pp. 316-322.
7.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2011), „Extension of the Common Information Model with Virtual Meter“, Electronics and electrical engineering, ISSN 1392 – 1215, 2011, vol 1 (111), pp. 59-64.
8.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A novel software architecture for smart metering systems“, Journal of Scientific & Industrial Research, December 2010, vol 69, pp. 937-941.
9.	Nedić N., Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A genetic algorithm approach for utility management system workflow scheduling“, Information technology and control, 2010, vol 39 (4), pp. 310-319.
10.	Erdeljan A., Lendak I., Vukmirović S. & Čapko D. (2007), „Otvorena softverska arhitektura za modeliranje, simulaciju i upravljanje distributivnim vodovodnim sistemima“, Vodoprivreda, 2007, ISSN 0350-0519, vol 229-230, pp. 291-302.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	25			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	1	International :	1

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.	E21I0	Izborni strani jezik 1	(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
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

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

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

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 (Inđija), 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 (AH0) Architecture, Master Academic Studies
41.	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
42.	eja	English Language – a Specialized Course	(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

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 refferences (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

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 - Renewble 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 (GI0) 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 refferences (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

Representative refferences (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.	Satarić M., Kozmidis-Luburić U., Budinski-Petković Lj., Lončarević I.: Intrinsic Electric Fields as a Control mechanism of Infracellular 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 :	1	International :	0

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 carieer	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 refferences (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., Japundzic-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,; Japundzic 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 Japundžić-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 Japundžić 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 Japundžić 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 Japundžić-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.

Representative refferences (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 :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Lukić J. Tibor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.07.2012
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Mathematics
Magister thesis	2004	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.	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.	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.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
5.	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
6.	M4201	Mathematics 3	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	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

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

	ID	Course name	Study programme name, study type
9.	Z106	Mathematics 2	(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
10.	E101	Discrete Mathematics	(ES0) Power Software Engineering, Undergraduate Academic Studies
11.	ISIT02	Mathematics 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
12.	Z104	Matematika 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
13.	Z106	Matematika 2(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
14.	0ML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
15.	0ML507	Logic in computer science	(OM1) Mathematics in Engineering, Master Academic Studies
16.	IA022	Numerical Optimization	(F20) Engineering Animation, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Tibor Lukic, Nebojsa M. Ralevic, Geometric Mean Newton"s Method for Simple and Multiple Roots, Elsevier, Applied Mathematics Letters 21, pp. 30-36, 2008.
2.	Joakim Lindblad, Nata ·sa Sladoje, and Tibor Lukic, Feature Based Defuzzication in Z2 and Z3 Using a Scale Space Approach, Springer-Verlag, Volume 4245,of Lecture Notes in Computer Science, pp. 378-389, 2006.
3.	Tibor Lukic, Natasa Sladoje, and Joakim Lindblad, Deterministic Defuzzication based on Spectral Projected Gradient Optimization, Springer-Verlag, Volume 5096 of Lecture Notes in Computer Science, pp. 476-485, 2008.
4.	Zorana Lu ·zanin and Tibor Lukic, Convergence of the MRV method at singular points, Volume 35 of Novi Sad Journal of Mathematics, pp. 71-79, 2005.
5.	Tibor Lukic, Neboj ·sa M. Ralevic and Aniko Lukity, Application of Aggregation Operators in Solution of Nonlinear Equations, Proceedings of 4th Serbian-Hungarian Joint Symposium on Intelligent Systems, pp. 329-339, Subotica, 2006.
6.	Tibor Lukic and Neboj ·sa M. Ralevic, Newton"s Method with Accelerated Convergence Modified by an Aggregation Operator, Proceedings of 3rd Serbian-Hungarian Joint Symposium on Intelligent Systems, pp. 121-128, Subotica, 2005.
7.	Tibor Lukic, Joakim Lindblad, and Natasa Sladoje, Regularized Image Denois- ing Based on Spectral Gradient Optimization, Inverse Problems, Vol. 27:085010, IOP Publishing, 2011.
8.	Lukić T.: Energy-minimization based Discrete Tomography Reconstruction Method for Images on Triangular Grid, Lecture Notes in Computer Science, LNCS, 2012
9.	Tibor Lukic, Benedek Nagy, Energy-minimization based Discrete Tomography Reconstruction Method for Images on Triangular Grid, Proceedings of Combi- natorial Image Analysis - 15th International Workshop (IWCIA), Austin (TX), USA, LNCS, Vol. 7655, Springer-Verlag, pp. 274-284, 2012.
10.	Zorana Luzanin and Tibor Lukic, Convergence of the MRV method at singular points, Novi Sad Journal of Mathematics, Vol. 35, pp. 71{79, 2005.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	2	International :	0

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 carieer	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
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

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

	ID	Course name	Study programme name, study type
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 refferences (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, Pavićević 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.
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 Sistems, 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 :	1	International :	0

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 carieer	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 refferences (minimum 5, not more than 10)

Representative refferences (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 WirelessNetworks: 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 mikroračunari", 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

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 refferences (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 tehnologies 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 Europian 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.

Representative refferences (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

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 carieer	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 - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
4.	EOS25	Solar and hybrid electric plants	(E01) Power Engineering - Renewble 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 refferences (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_

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Marić B. Branislav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2009
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1995	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Organization Science
Magister thesis	1992	Faculty of Technical Sciences - Novi Sad	Organization Science
Bachelor's thesis	1977	Faculty of Technical Sciences - Novi Sad	Organization Science

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

	ID	Course name	Study programme name, study type
1.	I914	Project Management	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	M317	Economy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	II121	Principles of economics	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	IM1014	Company Economics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
5.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	IM1102	Investment Management	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1419	Strategic resource allocation and planning	(I20) Engineering Management, Undergraduate Academic Studies
8.	IMDS63	Intelligent Organisation	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
9.	IMDS88	Planning and implementing cost structure of the investment cycle	(I22) Engineering Management, Specialised Academic Studies
10.	MBA303	Economics for Managers	(IB0) Engineering Management - MBA, Specialised Professional Studies
11.	LIM33	Logistic Economics	(LIM) Logistic Engineering and Management, Master Academic Studies
12.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
13.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
14.	IM2122	The rating company profitability	(I20) Engineering Management, Master Academic Studies
15.	IM2414	Technical Analyses and the Trading Systems	(I20) Engineering Management, Master Academic Studies
16.	IM2418	Support to management decision making	(I20) Engineering Management, Master Academic Studies
17.	IM2424	Investment management	(M50) Energy Management, Master Academic Studies
18.	IM2425	Economics of the Firm	(M50) Energy Management, Master Academic Studies
19.	IMDR63	Intelligent Organisation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
20.	IMDR88	Planning and implementing cost structure of the investment cycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kiurski J., Marić B., Adamović D., Mihailović A., Grujić S., Oros I., Krstić J.: Register of hazardous materials in printing industry as a tool for sustainable development management, Renewable and Sustainable Energy Reviews, 2012, Vol. 16, No 1, pp. 660-667, ISSN 1364-0321, UDK: doi:10.1016/j.rser.2011.08.030
2.	Marić B., Dobromirov D., Radišić M.: Researching the dependence between the dynamic indicators of investment profitability, African Journal of Business Management, 2011, Vol. 5, No 13, pp. 5076-5082, ISSN 1993-8233
3.	Radišić M., Marić B., Dobromirov D.: SMEs and entrepreneurs investments' profitability effects within the transition period in the Republic of Serbia, African Journal of Business Management, 2011, Vol. 5, No 7, pp. 2654-2659, ISSN 1993-8233
4.	Marić B., Demko-Rihter J., Mitrović V., Rovčanin M.: Functional correlations between the efficiency indicators of investments, African Journal of Business Management, 2011, Vol. 5, No 7, pp. 2979-2984, ISSN 1993-8233
5.	Marić B., Kamberović B., Radlovački V., Delić M., Zubanov V.: Observing the dependence between dynamic indicators of investment profitability - Relative net present value and internal rate of return, African Journal of Business Management, 2011, Vol. 5, No 26, pp. 331-337, ISSN 1993-8233
6.	Marić B., Ivanišević A., Mitrović S., Sreto A., Mihailo R.: Analysis of internal rate of return on investments: Dynamic and static approach, African Journal of Business Management, 2011, Vol. 5, No 8, pp. 3269-3273, ISSN 1993-8233
7.	Organizacija preduzeća, Fakultet za preduzetni menadžment, Novi Sad, 2006.
8.	Upravljanje projektima, Fakultet za preduzetni menadžment, Novi Sad, 2000.
9.	Upravljanje investicijama, Fakultet tehničkih nauka, 2010.
10.	Osnove organizacije rada, Fakultet tehničkih nauka, 1982.

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

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 (Inđija), 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

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 refferences (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 :	

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 refferences (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

Representative refferences (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 :	1	International :	2

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 carieer	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 - Renewble 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
10.	E102A	Mathematical Analysis 1	(E10) 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.	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 refferences (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.
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.

Representative refferences (minimum 5, not more than 10)	
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 :	2	International :	0

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 carieer	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

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 refferences (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 farmaceutski 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 tezaurusu
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 :	

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 (Inđija), Undergraduate Professional Studies
9.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
11.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
12.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Inđija), 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

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 refferences (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-SECRYPT"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.

Representative refferences (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 :	2	International :	1

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 carieer	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.	EI411	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.	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
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.	MR0ULR	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

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 refferences (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.Hodolič, 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 Syimposium 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

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 carieer	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

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

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 (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, 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.	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 (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
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 (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.	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 refferences (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 Bogranović: 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

Representative refferences (minimum 5, not more than 10)	
8.	Mirović I, Gak D,, Bogdavović V.: Trust me - I'm an engineer or: Why we should challange 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 :	0	International :	0

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 carieer	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.	EI411	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.	MR0ULR	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
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

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

	ID	Course name	Study programme name, study type
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 refferences (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 InternallyGenerated 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

Science, arts and professional qualifications

Name and last name:	Mitrović R. Vojin
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Engineering Management

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Engineering Management
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	1984	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	1979	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management

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

	ID	Course name	Study programme name, study type
1.	IM1005	Entrepreneurship	(I20) Engineering Management, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	IM1027	Production systems	(I20) Engineering Management, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	IM1044	Business process integration	(I20) Engineering Management, Undergraduate Academic Studies
4.	IM1045	Innovation in Enterprises	(I20) Engineering Management, Undergraduate Academic Studies
5.	IM1101	Production planning and control	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
6.	IM1115	Business process modelling	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1206	Innovation and Change Management	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1217	Entrepreneurship and New Business Venturing	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1220	Entrepreneurial strategies	(I20) Engineering Management, Undergraduate Academic Studies
10.	IM2101	Intelligent Enterprising and Effective Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Tesic, Z., Mitrovic, V., Cosic, I.P., Lalic, D., Integration of information for manufacturing shop control, Strojniski vestnik - Journal of Mechanical Engineering, Vol. 56 No 3, pp. 217-223, 2010
2. Tešić, Z., Gračanin, D., Mitrović, V., An approach in development of integrated planning, scheduling and production control system, INFOTEH-Jahorina, Vol. 7, Ref. C-1, pp. 262-265, 2008.
3. Maksimović, R., Stankovski, S., Mitrović, V., Purić, R., The Balanced Scorecard metodology in enterprise, INFOTEH-Jahorina, Vol. 7, Ref. C-5, pp. 280-284, 2008.
4. Tesic, Z., Mijuskovic, LJ., Mitrovic, V., Integration model of business and production processes in industrial enterprise, INFOTEH-Jahorina, pp. 262-265, Sarajevo, 2009.
5. Tesic, Z., Mitrović, V., ERP systems in inteliigent business, INFOTEH-Jahorina, pp. 348-351, Sarajevo, 2010.
6. Tešić, Z., Nikolić, R., Kuzmanović, B. i ostali: „Programi, tehnologije, organizacija i upravljanje razvojem kompetitivnog sela“, FTN izdavaštvo, 2008, 246 strana.
7. Mitrović, V., Maksimović, R., Tešić, Z., Appliance of "Balanced Scorecard" metodology in small enterprise, International Journal Total Quality Management & Excellence, Vol. 36 No 1-2, pp. 339-346, 2008.
8. Mitrović, V., Sistem menadžmenta kvalitetom u preduzeću "OKTAN PROMET", Bijeljina, 2005.
9. Mitrović, V., Sistem menadžmenta zaštitom životne sredine u preduzeću "OKTAN PROMET", Bijeljina, 2005.

Representative refferences (minimum 5, not more than 10)	
10.	Mitrović, V., Sistem menadžmenta kvalitetom u preduzeću "PANAFLEX", Bijeljina, 2005.

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

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	Analougue 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 refferences (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.

Representative refferences (minimum 5, not more than 10)

3.	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
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., Damnjanović 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 Tehnologies - 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. ICMAST-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 :	3	International :	1

Science, arts and professional qualifications

Name and last name:	Nenadić M. Goran
Academic title:	Guest 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:	2012		Applied Computer Science and Informatics
PhD thesis	2003		Mathematical Sciences
Magister thesis	1997		Mathematical Sciences
Bachelor's thesis	1993		Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E2K40A	Soft Computing	(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.	ISIT2D	Web design	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	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
4.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, 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.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE0031	Operating Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	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
9.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
10.	E2503	Data Mining and Data Analysis Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
11.	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
12.	E2523	Social Networks	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	E2524	Text Mining	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	E2527	Business Intelligence	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Spasic, I., Sarafraz, F., Keane, J., Nenadic, G.: Extraction of Medications from Hospital Discharge Letters with Pattern Matching and Semantic Rules, J. of American Medical Informatics Association, 17(5): 532-535, 2010
2.	Gerner, M., Nenadic, G., Bergman, C.: LINNAEUS: A Species Name Identification System for Biomedical Literature, BMC Bioinformatics 11:85, 2010
3.	Yang, H., Spasic, I., Keane, J., Nenadic, G.: A Text Mining Approach to the Prediction of a Disease Status from Clinical Discharge Summaries, J. of American Medical Informatics Association, 16(4):596-600
4.	Yang, H., Keane, J., Bergman, C., Nenadic, G.: Assigning Roles to Protein Mentions: the Case of Transcription Factors, Journal of Biomedical Informatics, Vol. 42(5), pp. 887-894
5.	Yang, H., Nenadic, G., Keane, J.: Identification of Transcription Factor Contexts in Literature using Machine Learning Approaches, BMC Bioinformatics 2008, 9(Suppl 3):S11
6.	Rice, S., Nenadic, G., Stapley, B.: Mining Protein Function from Text Using Term-based Support Vector Machines, BMC Bioinformatics 2005, 6(Suppl 1):S22
7.	Krauthammer, M., Nenadic, G.: Term Identification in the Biomedical Literature, Journal of Biomedical Informatics, Vol. 37(6), 2004, pp. 512-526
8.	Nenadic, G., Spasic, I., Ananiadou, S.: Terminology-driven Mining of Biomedical Literature, Bioinformatics 19:8, 2003, pp. 938-943
9.	Nenadic, G., Mima, H., Spasic, I., Ananiadou, S., Tsujii, J.: Terminology-based Literature Mining and Knowledge Acquisition in Biomedicine, Int. J. of Medical Informatics, Vol. 67(1-3), 2002, pp. 33-48

Summary data for teacher's scientific or art and professional activity:

Quotation total :				
Total of SCI(SSCI) list papers :				
Current projects :	Domestic :		International :	

Science, arts and professional qualifications

Name and last name:	Obradović J. Đorđe
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.07.1998
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		Applied Computer Science and Informatics
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Computer Science
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.	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
2.	E2K40A	Soft Computing	(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.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional 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.	SE0013	Data Organization	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	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
9.	E2511	Fuzzy Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
10.	E2512	Neural Networks	(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
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
12.	E2536	Mobile Application Development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	DRNI14	Selected Chapters in Machine Learning	(E20) Computing and Control Engineering, Doctoral Academic Studies
15.	DRNI17	Selected Topics in ICT enhanced learning	(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 refferences (minimum 5, not more than 10)

1.	Konjović Z., Obradović Đ., Racković M., Object oriented implementation of the neural network training system, Proc. Of Seventh IFSA '97 World Congress, Prague 1997.
2.	Obradović Đ. Jovanović D., Konjović Z., Govedarica M., Web based software system supporting detection of topographical symbols, InterGeoEast 2006.
3.	Obradović Đ. Racković M., Algorithmic Structure for Representation of the Various Neural Network Models, XI Conference on Applied Mathematics PRIM '96 Budva 1996.
4.	Konjović Z., Fišl I., Obradović Đ., "Specification of the language for reporting in library information system", YuInfo'98, Kopaonik 1998.
5.	Obradović Đ., Konjović Z.,"The system for the computer supported testing students knowledge", YuInfo'99, Kopaonik 1999.
6.	Šolajić D., Obradović Đ., Konjović Z., "Reengineering in the anthropomorphic gait simulation system", PRIM 2000
7.	Obradović Đ., Konjović Z., "Anthropomorphic Gait Simulation System", PRIM 2000
8.	Obradović Đ., Šolajić D., Konjović Z. "Softverski sistem za administriranje procesa izvođenja nastave", YUINFO 2004
9.	Šolajić D., Obradović Đ., Konjović Z., "Web bazirana aplikacija za podršku razvoju softverskog projekta" YUINFO 2004
10.	Jovanović D., Obradović Đ., Konjović Z., Govedarica M., Softverski sistem za detekciju topografskih znakova na kartama i mapama, YuInfo, Kopaonik 2005.

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

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
11.	GS016	Lighting in Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies

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

	ID	Course name	Study programme name, study type
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 refferences (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 energetsku elektroniku-Novi Sad, Elektrotehnički institut "Nikola Tesla"-Beograd, Fakultet tehničkih nauka-Novi 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

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 carieer	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.	0M512	Models of Computation	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML512	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

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 refferences (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 - characteization 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

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.	MR0ULR	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 refferences (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
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

Representative refferences (minimum 5, not more than 10)

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 BROJILO 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 :	

Science, arts and professional qualifications

Name and last name:	Pekarić-Nađ 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	(GI0) 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 refferences (minimum 5, not more than 10)

1. Neda Pekarić-Nadj, Vera Bajović, “Izbor rešenih problema iz Osnova elektrotehnike”, Gradjevinska knjiga, Beograd, 2007
2. Neda Pekarić-Nadj, Dejana Herceg, “Osnovi elektrotehnike za studente Računarskog odseka” edicja FTN, Novi Sad, 2005
3. Nikolajević S, Pekarić-Nadj N, Dimitrijević R, "Optimization of cable terminations", IEEE Trans. PWRD,Vol.12, No 2, 1997 p.p. 527-532
4. Nikolajević S, Pekarić-Nadj 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

Representative refferences (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 Electromegnetics and Optimization inElectrical 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 Electromegnetics and Optimization inElectrical 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
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

Science, arts and professional qualifications

Name and last name:	Perišić R. Branko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1983
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
Education Specialist Thesis	2007	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
Education Specialist Thesis	2004	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1986	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1977	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.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E242	Software Specification and Modeling	(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.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	RI45	Software Design	(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
5.	RI53	Business Information 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
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	ISIT2E	Osnove projektovanja softvera	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT33	Integracija i verifikacija softverskih aplikacija	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies

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

	ID	Course name	Study programme name, study type
11.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	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
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.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	E2508	Agile Software Development Methodology	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	E2509	Protection and Recovery of Software Systems	(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.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
18.	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
19.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
20.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	B. Perišić, G. Milosavljević "A Method and Tool for Rapid Prototyping of Large Scale Business Information Systems" COMSIS 2004
2.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
3.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

Representative refferences (minimum 5, not more than 10)	
4.	Branko Perišić "DMIS-Distributed Medical Information System Concept&Structure", SystemScienceJournal N0.1 Vol.13 1987
5.	Dejanović I., Perišić B., Milosavljević G., Stričević N.: Towards a foundation for distributed version control of SLE artifacts. In 3rd International Workshop on Model-Based Software and Data Integration
6.	Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf
7.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94
8.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24
9.	G.Milosavljević, B.Perišić "Really Rapid Prototyping of Large-Scale Business Information Systems", IEEE Workshop on Rapid Systems Prototyping San Diego 2003
10.	Perišić B., Zečević I.: Program package University organizational structure Korisnik: FTN Novi Sad, Univerzitet u Novom Sadu Rađeno za: TEMPUS , 2007

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	12			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	6

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 carieer	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 refferences (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.

Representative refferences (minimum 5, not more than 10)	
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

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 :	3

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 refferences (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.

Representative refferences (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 :	

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 refferences (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.	Ćosić 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 tehnologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	Sakulski D., Ćosić 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., Ćosić 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., Ćosić 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., Ćosić 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)

Representative refferences (minimum 5, not more than 10)

8.	Popović Lj., Popov S., Ćosić 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., Ćosić 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 :	2	International :	0

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 carieer	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 refferences (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.

Representative refferences (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., Kukolj 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

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 refferences (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, Fakultetet tehničkih nauka, Novi Sad, 2004.

Representative refferences (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 sociogija saznanja, Sociogija br 4, Beograd, 1997.
9.	Socio-psychological consequnences 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 :	2	International :	1

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 carieer	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 refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)	
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.	Cvetićanin 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., Cvetićanin 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 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 sign(x)Abs(x)^alfa 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

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	20			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	1

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 (Inđija), 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 refferences (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 Septembar, 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 Novembar, 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

Representative refferences (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 :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Rapaić R. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.12.2006
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011	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
Master's thesis	2006	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.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(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.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
7.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2316	Real-time control systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
10.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
13.	A118S	Contemporrary technologies applied to architecture and urbanism	(A00) Architecture, Specialised Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	AT04	Contemporary theories and technologies applied to architecture, urbanism and design 1	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies (AH0) Architecture, Master Academic Studies
16.	AT05	Contemporary theories and technologies applied to architecture, urbanism and design 2	(AH0) Architecture, Master Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	A118	Contemporary technologies applied to architecture and urbanism	(A00) Architecture, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Milan R. Rapaić, "Optimalno i suboptimalno upravljanje klasom sistema sa raspodeljenim parametrima", doktorska disertacija, FTN Novi Sad, 2011
2.	Milena Petković, Milan R. Rapaić, Zoran D. Jeličić, Alessandro Pisano (2012) On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39 Issue 11, September, 2012 Pages 10226-10235
3.	Milan R. Rapaić, Zoran D. Jeličić, Optimal control of heat diffusion systems, Nonlinear Dynamics, Vol 62, Number 1-2, 39-51, 2010
4.	Alessandro Pisano, Milan R. Rapaić, Zoran D. Jeličić, Elio Usai, Sliding mode control approaches to robust regulation of linear multivariable fractional-order dynamics, International Journal of Robust and Nonlinear Control, Volume 20, Issue 18, pages 2045–2056
5.	Željko Kanović, Milan Rapaić, Zoran Jeličić, Generalized Particle Swarm Optimization Algorithm - Theoretical and Empirical Analysis with Application in Fault Detection, Applied Mathematics and Computation (in press, doi:10.1016/j.amc.2011.05.013)
6.	Milan R. Rapaic, Zeljko Kanovic, Time-Varying PSO - Convergence Analysis, Convergence Related Parameterization and New Parameter Adjustment Schemes, Information Processing Letters , 109 (2009) 548–552
7.	Milan R. Rapaić, Tomislav B. Šekara, Novel direct optimal and indirect method for discretization of linear fractional systems, Electrical Engineering, DOI: 10.1007/s00202-011-0195-5
8.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapaić, Teodor M. Atanacković, Stevan Pilipović, A new approach to the compartmental analysis in pharmacokinetics: fractional time evolution of diclofenac, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2, (2010) 119-134
9.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapaić, Teodor M. Atanacković, Stevan Pilipović, Remarks on the mass balance for multi-compartmental models; a nonlinear compartmental model, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2 (2010) 217-220
10.	Jovan K. Popović, Diana Dolićanin, Milan R. Rapaić, Stevan L. Popović, Stevan Pilipović, Teodor Atanacković, A nonlinear two compartmental fractional derivative model, European Journal of Drug Metabolism and Pharmacokinetics, (in press: DOI 10.1007/s13318-011-0057-6)

Summary data for teacher's scientific or art and professional activity:

Quotation total :	85			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Ristić V. Aleksandar
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.02.2000
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	2001	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1999	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.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI404A	Digital Terrain Models	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI409A	Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
10.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
11.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
15.	GI537	Geosensor networks	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
17.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI04	Selected Chapters in Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
21.	DGI004	Selected Chapters in Underground Infrastructure Utility Detection	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
22.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
23.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
24.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
25.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
26.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Aleksandar Ristić, Dušan Petrovački, Miro Govedarica: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004, (IF2010 1.416)
2.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar: Metadata Catalogues in Spatial Information Systems (Review), GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
3.	Aleksandar Ristić, Biljana Abolmasov, Miro Govedarica, Dušan Petrovački, Aleksandra Ristić: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta geotechnica slovenica, (2012), vol. 9, issue 1, pp 46-59, (IF 2011, 0.100)
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY, Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)
5.	Ristić Aleksandar, Govedarica Miro, Petrovački Dušan: GNSS status and perspective, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 1, Str. 6-10, UDK 63:004(497.11)
6.	Ristić Aleksandar, Petrovački Dušan, Govedarica Miro: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 2, Str. 76-80, UDK 621.396.96(075.8)
7.	Ristić A., Petrovački D., Govedarica M., Popov S.: Detekcija podzemnih voda i tokova Georadarom, Vodoprivreda, 2007, Vol. 39, Broj 229-230, str. 344-349, ISSN 0350-0519, UDK: 551.491.5
8.	Ristić A., Petrovački D., Govedarica M. : Flooding bank structure modelling using GPR, GNSS and airborne laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 99-103, ISBN 978-3-938373-93-4
9.	Ristić A., Govedarica M., Petrovački D. : Landslide analysis using GPR, GNSS and terrestrial laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space- Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 90-94, ISBN 978-3-938373-93-4
10.	Govedarica M., Petrovački D., Ristić A:GNSS - Based Ground Penetration Radar Applications, 2. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, EUPOS ISC, UN OOSA, ICG, 11-14 Novembar, 2008, str. 93-94

Summary data for teacher's scientific or art and professional activity:

Quotation total :	2			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	1

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 refferences (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

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

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 refferences (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

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 refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	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.
2.	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
3.	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
4.	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
5.	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
6.	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
7.	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
8.	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.
9.	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.
10.	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

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Simić S. Srboljub
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 refferences (minimum 5, not more than 10)

1. Srboljub 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. Srboljub 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.<\eng>
5. S.S. Simic (2002), On the symmetry approach to polynomial conservation laws of one-dimensional Lagrangian systems, International Jounal of Non-Linear Mechanics, 37, pp. 197-211.<\eng>
6. T. Ruggeri, S. Simić (2004), Non Linear Wave Propagation in Binary Mixtures of Euler Fluids, Continuum Mechanics and Thermodynamics, 16, pp. 125-148.<\eng>
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.<\eng>
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

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

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 - Renewble 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 (Inđija), Undergraduate Professional Studies
7.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT2A	Software Development Techniques	(SII) Software and Information Technologies (Inđija), 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

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 refferences (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/csis0902001V
5.	Sladić G., Milosavljević B., Konjović Z.: Extensible Access Control Model for XML Document Collections, 1. International Conference on Security and Cryptology - SECRYPT, 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

Representative refferences (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 :	2	International :	0

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.	BMI115	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 development 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
17.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
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 refferences (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, Banaj 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 :	2	International :	1

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 carieer	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

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 refferences (minimum 5, not more than 10)

1.	Spasić D., Glavardanov 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., Jelicic 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 :	1	International :	0

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 carieer	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 refferences (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

Representative refferences (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

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.	0M504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0M505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0ML504	Operational Research	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML505	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

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 (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 refferences (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

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 refferences (minimum 5, not more than 10)

1.	Jeranče 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

Representative refferences (minimum 5, not more than 10)

4.	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
5.	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
6.	Stojanović G., Lečić N., Damnjanović 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
7.	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.
8.	R. Raghavendra, P. Bellew, N. Mcloughlin, G. Stojanović, M. Damnjanović, 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.
9.	G. Stojanović, "Nanoelektronika i primena nanomaterijala", Edicija tehničke nauke - Udžbenici, FTN Izdavaštvo (338), Novi Sad, 2012.
10.	G. Stojanović, Lj. Živanov, "Materijali u elektrotehnici", Edicija Tehničke Nauke - Udžbenici, FTN izdavaštvo, Novi Sad, 2007.

Summary data for teacher's scientific or art and professional activity:

Quotation total :	78			
Total of SCI(SSCI) list papers :	22			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Suvajdžin 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 (Inđija), Undergraduate Professional Studies
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), 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 refferences (minimum 5, not more than 10)

1.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin 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 Suvajdžin, 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 Suvajdžin, Žarko Živanov, Character oriented program editing - habit or necessity, Novi Sad Journal of mathematics, vol. 33, no. 1, Novi Sad, 2003., pp 53-65

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Šafranj 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

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

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

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 (Inđija), 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.	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 refferences (minimum 5, not more than 10)

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Temerinac R. Miodrag
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:	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2003	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1976	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.	E240	Fundamentals of DSP Architecture and Algorithms 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E2401	Fundamentals of DSP Architecture and Algorithms 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	RT510	Algorithms and DSP platforms in computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master 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.	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
6.	DRT04	Selected Chapters in Computer Communications	(Z01) Safety at Work, Doctoral Academic Studies
7.	DRT07	Development and implementation of multimedia algorithms	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Osnovi algoritama i struktura DSP, S. Berber i M. Temerinac, 2004
2.	Arhitekture i algoritmi DSP I, V. Kovačević, M. Popović, M. Temerinac, N. Teslić, 2005
3.	Principi telekomunikacija I i II, M. Temerinac, 1988
4.	Osnovi telekomunikacija, V. Milošević, Ž. Trpovski, M. Temerinac, 1994
5.	Temerinac-Ott M., Temerinac M.: Discrete Fourier-Invariant Signals: Design and Applications", Elsevier Science Publishers, 2012, Vol. 60, No 3, pp. 1108-1120, UDK: 10.1109/TSP.2011.2178602
6.	Miodrag Temerinac, Carsten Noeske, Ralf Herz, Steffen Zimmermann, Volker Wagner, „ Eine neue DSP Plattform für Multimedia-Anwendungen", it - Information Technology 45(6): (2003)
7.	Hilsinger U., Bock C., Fiesel H. and Temerinac M., "Neues Konzept für drahtlose High-End-Audioübertragung", Elektronik, Sonderheft Wireless 02/2002, pp. 50-55
8.	Teslić N., Zlokolica V., Peković V., Tekcan T., Temerinac M.: Packet-loss error detection system for DTV and set-top box functional testing, IEEE Transactions on Consumer Electronics, 2010, Vol. 56, No 3, pp. 1311-1319, ISSN 0098-3063, UDK: 10.1109/TCE.2010.5606264
9.	Kovačević J., Samardžija D., Temerinac M.: Joint coding rate control for audio streaming in short range wireless networks, IEEE TRANSACTIONS ON CONSUMER ELECTRONICS 2009 55 (2):486-491, 2009, Vol. 55, No 2, pp. 486-491, ISSN 0098-3063
10.	Marijan D., Teslić N., Temerinac M., Peković V.: On the Effectiveness of the System Validation Based on the Black Box Testing Methodology, JOURNAL OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA, 2009, Vol. 2009, No 7(4), pp. 1-4, UDK: http://d.wanfangdata.com.cn/Periodical_zgdzkj-e200904020.aspx

Summary data for teacher's scientific or art and professional activity:

Quotation total :	0

Total of SCI(SSCI) list papers :	22			
Current projects :	Domestic :	1	International :	0

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

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 refferences (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

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 refferences (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

Representative refferences (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, filled 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, filled 3.november, 2006, No. P-2006/0612.
5.	Z. Šaric, S. Jovičić, V. Kovačević, N.Teslić, I. Papp, TECHNIQUE AND SYSTEM FOR AUTOMATIC GAIN CONTROL (AGC) USING MICROPHONE ARRAY, filled 3.november, 2006, No. P-2006/0611.
6.	Majstorović D., Čelanović I., Teslić N., Čelanović N., Katić V.: Ultra-Low Letency 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., Teckan 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 :	2	International :	10

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 - Renewble 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.	MR0ULR	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

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 refferences (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. Kušljevič, 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 mikroračunalima 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

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 - Renewble 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 refferences (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

Representative refferences (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 Comparision 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 :	3	International :	1

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
11.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
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 refferences (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 Inforation System BISIS", Proceedings of the International Conference on Distributed LibraryInformation 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 YuInfo 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

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.	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.	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.	MR0ULR	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
17.	SI018	Ionizing and Non-Ionizing Radiation and Protection	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies

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

	ID	Course name	Study programme name, study type
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 refferences (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 InternallyGenerated 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

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

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 refferences (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

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 carieer	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 refferences (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

Representative refferences (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

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 refferences (minimum 5, not more than 10)

1.	R. Raghavendra, P. Bellew, N. Mcloughlin, G. Stojanović, M. Damnjanović, 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. Damnjanović, 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.Damnjanović, G. Stojanović, Lj. Živanov, V. Desnica, “Comparison of different structures of ferrite EMI suppresors,“ Microelectronics International, vol. 23, no. 3, pp. 42-48, September 2006.

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Živanov S. Žarko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.01.2001
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2000	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.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	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
5.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional 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.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Žarko Živanov, Ivan Nejgebauer, Lazar Stričević, Miroslav Hajduković: Praktikum računarskih vežbi za predmet ARhitektura računara
2.	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
3.	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
4.	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
5.	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

Representative refferences (minimum 5, not more than 10)	
6.	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
7.	*****Autori: Suvajdžin Z., Hajduković M., Živanov Ž. Naziv: Character oriented program editing – habit or necessity? Naziv časopisa: Novi Sad Journal of mathematics
8.	*****Autori: Hajduković M., Suvajdžin Z., Živanov Ž., Hodžić E. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics
9.	*****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.
10.	Rakić P., Milašinović D., Živanov Ž., Hajduković M.: MPI-CUDA Parallelisation of the Finite Strip Method for Geometrically Nonlinear Analysis, 1. Internationale Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs: Civil-Comp Press, , ISBN 978-1-905088-29-4

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	0	International :	0

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 refferences (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.

Representative refferences (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 :	2	International :	0

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, classroomas 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 enough 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 teching process.

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 postitive practice of interviewing students through questionnaire.
The quality control of the study programme is perfomed 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.

Standard 12. Distance Education

Distance learning is not available within this study programme.