
	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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STUDY PROGRAMME ACCREDITATION MATERIAL:

COMPUTING AND CONTROL ENGINEERING

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

Programme name	Computing 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, professional or art field	Electrical and Computer Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	241-244
Academic degree, abbreviation	Bachelor with Honours in Electrical and Computer Engineering, B.El.Comp.Eng.
Study length	4
Programme implementation starting year	2005
Future course implementation starting year (for new programme)	
Number of students attending this programme	669
Planned number of students to be enrolled in this programme	960
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2008
Web address containing programme information	http://www.ftn.uns.ac.rs



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 00. Introduction

The study programme of the Undergraduate Academic Studies in Computing and Control Engineering in the field of Electrical and Computer Engineering is realized at the Department of Computing and Control Engineering of the Faculty of Technical Sciences, University of Novi Sad.

The study programme of Computing and Control Engineering is developed within three basic engineering areas: automatic control and systems engineering, applied computer science and informatics and computer engineering and computer communications. The concept of the programme is defined in such a way that it educates future engineers who will possess the knowledge which is necessary for practical work and which at the same time enables them to continue education at the corresponding graduate or doctoral studies.

The current state and, especially, trends in the development of electrical and computer engineering 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 which provide the foundation for understanding computing, system (especially engineering) control and automatic control based on principles of physics, mathematics, electrical engineering, computer science, computer engineering, theory of signals and systems. Upper years of study are devoted primarily to specialized courses which are aimed at providing professional and applied knowledge in the narrow fields of interest. The studies especially value independent work, encourage participation in practical professional and developmental projects within the laboratories and develop problem solving abilities. New, contemporary laboratories are established in cooperation with the renowned international companies: IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Leica, Schneider electric. In addition to the necessary theoretical and practical knowledge, all these activities provide the feeling of self-confidence and completeness which is necessary for the successful integration in the professional environment.

The wide area covered by the study programme and the inevitable need for specialization have led to the need for a large number of elective courses at the upper years while the interdisciplinary aspect is maintained through common core subjects.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 01. Programme Structure

The name of the undergraduate academic study programme is Computing and Control Engineering. The academic degree obtained is Bachelor degree in Electrical and Computer Engineering. The structure of the programme enables the students to acquire the profound knowledge in the chosen area of interest, as well as to gain adequate knowledge of the other areas of computing and control engineering. The learning process outcome on this level of study is knowledge which enables students to use the professional references, apply knowledge for solving particular problems in professional area or in continued education (in case they chose that).

Requirements for the admission to the study programme are the completion of four years of secondary schooling and the successfully passed entrance examination. Procedures for registration, ranking and enrollment of candidates are defined in Regulations on Enrolment of Students to Study Programmes.

The undergraduate academic studies in Computing and Control Engineering which last four years and is evaluated with 240 ECTS, includes mandatory and elective courses, professional praxis and Bachelor thesis. The programme is organized around three areas of electrical and computer engineering:

- Automatic Control and Systems Engineering,
- Applied Computer Science and Informatics,
- Computer Engineering and Computer Communications.

After the third year of studies, the students can decide on one of the three areas on the basis of their aptitudes and wishes, by making a selection of elective courses. By choosing at least 80% of subjects (credits) from a particular module on their senior year, the students acquire the right that their specific qualification in the chosen area be specified in the Diploma Supplement.

The Automatic Control and Systems Engineering module focuses on design, development and application of modern hardware and software solutions in the field of automatic control, biomedical engineering and geoinformation systems and technologies, based on system theory, signal processing and artificial intelligence.

The Applied Computer Science and Informatics module focuses on providing the knowledge students need for the design, development and application of modern software systems. Special emphasis is given to systems based on Internet technologies. Within this module students can additionally specialize (through elective courses) into four groups: Information systems, Internet and E-business, Software engineering and Intelligent systems.

The Computer Engineering and Computer Communications module focuses initially on acquiring generic knowledge in designing physical architecture, system software, intercomputer communications and architecture and algorithms of digital signal processors and then on developing students' abilities for design and development of dedicated computer structures and developing platforms and systems for real time operations.

Priority in choosing a study module is determined according to students' accomplishments and the number of students at a particular module can be limited in order to make most rational use of the available resources.

Elective courses are chosen from the group of suggested courses but students can also choose, upon approval of the Head of the Study programme, certain courses offered by the Faculty of Technical Sciences, University of Novi Sad, or any other university in the country or abroad, according to their affiliations and wishes, if the Pre exam assignments for attending that course are met.

Teaching is performed in the form of lectures and practical classes. During the lectures the subject matter is taught using the suitable didactic material with the necessary explanations which contribute to better understanding of the subject matter. At the practice classes which accompany the lectures, particular practical tasks are solved and additional examples are given to further illustrate the topic. Practical classes also provide additional explanation of the topics presented at lecture classes. These classes can be devoted to organize solving of practical engineering problems. Practice can be in the form of auditory, laboratory, computer or calculation classes. Practice classes can partially be conducted in a factory or other institution.

The size of the group for practice classes depends on the type of practice. Student obligations at these classes include writing seminar papers, homework assignments, project assignments or semester assignments which are followed and evaluated according to Regulations adopted at the Faculty. The number of points earned is expressed according to uniform system and reflects the students' workload. Each course is worth a certain number of ECTS (European Credit Transfer System) credits. Standard determines that one ECTS is equivalent to approximately 30 hours of student's activity (lectures, practice, exam preparation, ...). The studies are considered to be completed after the student has fulfilled all the



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UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering

obligations prescribed by the study programme and has attained the minimum of 240 ECTS credits.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 02. Programme Objectives

The purpose of the study programme is the education of students for the profession of electrical and computer engineer in the field of computing and control engineering in accordance to the needs of the society and the individual.

Computing and Control Engineering study programme is designed to ensure the acquired competences which are justified and useful for the society. The Faculty of Technical Sciences has defined the fundamental tasks and aims in educating highly competent professionals in the field of engineering. The purpose of the Computing and Control engineering study programme is in accordance with the basic tasks and aims of the Faculty of Technical Sciences.

Realization of the thus structured study programme educates engineers in the field of electrical and computer engineering who are competent at the European and international level.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

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 of at least one of the specialization areas: automatic control, system engineering, computer science, informatics, computer engineering and computer communications.

Practical knowledge: Acquiring the necessary knowledge for defining problems and projects as well as plans for their resolving using different technical knowledge and skills. This, among other things, includes the development of creative ways of approaching problems and the ability of critical thinking.

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.

Preparation for further studies: Acquiring the necessary knowledge which will enable the continuation of student's education at graduate, specialization or doctoral level. A specific aim which is related to the objectives of the education at the Faculty of Technical Sciences is developing the students' awareness of the need for life long learning, development of society as a whole and environment protection.

Preparation for professional involvement: Acquiring the necessary knowledge and developing awareness of the wide array of problems and obligations related to professional practice: safety, ethics, ecology and economy.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 04. Graduates' Competencies

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 behavior of the chosen solution with the clear idea of the advantages and disadvantages of the chosen solution.

With regard to their specific competences, students who have completed this study programme have acquired a though knowledge in the fields of electrical and computer engineering together with the knowledge of mathematics, physics and selected social studies. By completing the study programme the students acquire an in-depth knowledge of at least one of the specialization areas: automatic control, system engineering, computer science, informatics, computer engineering and computer communications. The study programme also qualifies students for solving practical problems using professional and scientific methods and procedures.

The students who have completed Computing and Control Engineering programme are capable of adequately writing about and presenting the results of their work.

The students who have completed this level of studies have the competence to apply their knowledge in practice and follow the new developments in their profession as well as cooperate with local community and international environment.

The students who have completed Computing and Control Engineering study programme are capable of team work and development of professional ethics.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 05. Curriculum

The curriculum of undergraduate academic studies in Computing and Control Engineering is designed to fulfill all the defined objectives. The structure of the study programme secures that about 15% of the courses belong to the academic and general education subjects, about 20% are theoretical and methodological courses, about 35% are scientific and professional courses and 30% are professional and applied courses. It has also been ensured that the elective courses represent at least 20% of ECTS credits. In addition to this, the courses on this study programme can be divided into:

- fundamental engineering disciplines group (mathematics, physics, ...)
- electrical and computer engineering group
- automatic control group
- applied computer science and informatics group
- computer engineering and computer communications group
- group of subjects where the acquired knowledge can be made concrete

The first three years of study are given to fundamental, general and common knowledge of all the students at this study programme, until at the end of their third year of study the students choose one of the three areas: Automatic control and system engineering, Applied computer science and informatics or Computer engineering and computer communications. Further on, on their fourth year the students can deepen the knowledge in the area that presents the main focus of their interest. In order to help the students in the choice of subjects and to increase the efficiency of studying, the Committee for the Quality of the Study Programme assigns a tutor to each student who will direct them in their further study until they chose the topic for their Bachelor thesis. The elective courses offered on the third year of study provide an opportunity to direct interest towards the desired area and to join different areas in a way which will suit each individual student. At the higher years of study these elective courses allow students to pursue their personal preferences.

Each course lasts one term and is worth a certain number of ECTS credits where one credit is equivalent to approximately 30 hours of work. The order of courses is defined so as to ensure that the prerequisite knowledge for one course is attained in the previously attended courses.

The curriculum defines each course in terms of its name, type of course, year and semester of studies, number of ECTS credits, name of the teacher, objectives of the course and expected outcomes, knowledge and competences, pre exam assignments for attending the course, content of the course, recommended literature, methods of teaching, types of evaluation and other.

The study programme is in line with European standards regarding admission requirements, duration of studies, enrolling the second year of studies, obtaining a diploma and mode of study.

Professional practice and practical work of 45 hours forms a constituent part of the curriculum and is carried out in suitable scientific and research institutions, innovation centers, organizations which provide infrastructure support for innovative activities, industrial and public institutions.

A student's studies are completed with the production of a Bachelor Thesis which consists of theoretical and methodological framework necessary for the in depth understanding of the area in which the Bachelor thesis is done and the production of the thesis itself.

Prior to the defense of the thesis the candidate takes an exam on the theoretical and methodological bases before the thesis supervisor. Bachelor thesis is defended before a committee of at least three professors.

It is worth mentioning that this Curriculum has been successfully applied, with minor adjustments, since 2002/2003 academic year.



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Table 5.2 Course specification

Course:		Mathematical Analysis 1				
Course id: E212						
Number of ECTS: 9						
Teachers:		Kovačević M. Ilija, Mihailović P. Biljana, Lukić J. Tibor, Grbić P. Tatjana, Kostić Z. Marko				
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:						
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
Homework			Yes	5.00	Final exam - part two	No 50.00
Lecture attendance			Yes	2.00	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,	I. Kovačević, N. Ralević, V. Marić, B. Carić, M. Novković, S. Medić		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, S. Medić, N. Ralević		Matemarička analiza 1 -diferencijalni i integralni račun, obične diferencijalne jednačine		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
3,	M. Novković, B. Carić, S. Medić, V. Čurić, I.		Zbirka rešenih zadataka iz Matematičke analize 1		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012
4,	I. Kovačević, B. Carić, S. Medić, V. Čurić		Testovi ispita iz Matematičke analize 1		FTN (Edicija tehničke nauke-udžbenici), Novi Sad	2012



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

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



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Table 5.2 Course specification

Course:		Programming Languages and Data Structures					
Course id:	E214						
Number of ECTS:	9						
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:	
4		0	4		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.							
3. Course content/structure:							
An overview of programme languages. Programming language syntax.: BNF, EBNF and syntax diagrams. Basic and derived data types. Operations. Sequences. Selections. Cycles. Jumps. Modules. Files. Algorithms and algorithm structures. Turing machine. Markov normal algorithms. Recursive functions. Algorithm analysis and structural programming. Data structures. Abstract data types. Program testing. User interface. Program documentation.							
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. Pre-exam assignment include two small projects (15 points each) and four tests (10 points each) which amounts to 70 points. 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 (knjiga je više puta prešampavana)		1994
2,	Malbaški D., Obradović D.		Osnovne strukture podataka		Univerzitet u Novom Sadu		1995
3,	Malbaški D.		Odabrana poglavlja metoda programiranja		Univerzitet u Novom Sadu		2005
4,	Hotomski D., Malbaški D.		Matematička logika i principi programiranja		Univerzitet u Novom Sadu		2003



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Table 5.2 Course specification

Course:		English Language - Elementary				
Course id:	EJ1Z					
Number of ECTS:	3					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		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 and possessive 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	
Test			Yes	10.00	Written part of the exam - tasks and theory	
Test			Yes	10.00	Yes	
Test			Yes	10.00	70.00	
Literature						
Ord.	Author		Title		Publisher	Year
1,	John and Liz Soars		New Headway Elementary		Oxford University Press	2000
2,	N. Coe, M. Harrison, K. Peterson		Oxford Practice Grammar		OUP	2000
3,	grupa autora		Oxford Serbian-English Dictionary		OUP	2006


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Table 5.2 Course specification

Course:		English Language – Intermediate			
Course id:	EJ2Z				
Number of ECTS:	3				
Teachers:	Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	0	0	0	
Precondition courses					
None					
1. Educational goal:					
Knowledge about the basics of English for Specific Purposes related to students' future profession. Students read a selection of engineering and scientific texts covering different areas of computing and control engineering in order to learn professional terms in accordance with definitions, classifications, terms and notions adopted by contemporary European and international standards. The knowledge of the English language is expanded by including new vocabulary, compounds, use of prefixes and suffixes, grammatical and syntax structures characteristic of English for specific purposes in this area.					
2. Educational outcomes (acquired knowledge):					
Students acquire enough knowledge and skills to use professional English in simple communication with clients, colleagues and employers.					
3. Course content/structure:					
A selection of texts from professional engineering areas. Systematization of verb tenses, conditional sentences, direct and indirect speech, passive.					
4. Teaching methods:					
Teaching is done using communicative method of language learning. After a short introduction about a topic, the students read the text and find new words in a dictionary. This is followed by a discussion about the topics mentioned in the text and the conclusions offered there. A part of the class is devoted to learning and practicing new vocabulary through oral and written exercises as well as to revision and expansion of knowledge related to certain grammar structures. Students are encouraged to communicate in English through group discussions and pair work.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test		Yes	10.00	Oral part of the exam	Yes 30.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Eric H. Glendinning, John McEwan	Basic English for Computing		Oxford University Press, Oxford	2003
2,	Edita Čavić	English in Architecture		Naučna knjiga, Beograd	2001
3,	John and Liz Soars	New Headway Pre-Intermediate		Oxford University Press, Oxford	2003
4,	N. Coe, M. Harrison, K. Paterson	Oxford Practice Grammar - Basic		Oxford University Press, Oxford	2006


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Table 5.2 Course specification

Course:		Physics			
Course id:	E215				
Number of ECTS:	9				
Teachers:		Budinski-Petković M. Ljuba, Satarić V. Miljko			
Course status:		Mandatory			
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:					
Provide students with basic knowledge about physics.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge will be used for understanding the physical processes underlying the operation of computers and other technical equipment.					
3. Course content/structure:					
Kinematics and dynamics of translational and rotational movement. Force. Newton's laws and laws of conservation. Field of gravity. Harmonic oscillations. Special theory of relativity. Fundamentals of physics of plasmas.(fusion). Fundamentals of fluid mechanics. First and second principle of thermodynamics. Phase transitions. Maxwell and Boltzmann distribution. Physical kinetics. Diffusion, heat conduction, viscosity. Wave movement, mechanical and electromagnetic waves. Wave and geometrical optics. Fundamentals of quantum physics. Schrödinger equation and its applications. Fermi – Dirac distribution and its application in semiconductors. Elements of solid state physics. Bose – Einstein distribution and its application on LASERS and superconductors.					
4. Teaching methods:					
Lectures, laboratory practice, computation practice, consultations. In lecture classes the theoretical part is presented with suitable examples to illustrate the application of theory and task solving. Laboratory practice covers experiments in the fields covered by the curriculum. Computation practice is given to characteristic tasks, and deepening of knowledge presented during the lectures. In addition to this there are regular consultations. Parts of the subject matter which presents a logical whole can be taken in the form of partial exams or colloquia. The final examination consists of written and oral part with the written part being eliminating.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Final exam - part one	Yes 35.00
Laboratory exercise defence		Yes	20.00	Final exam - part two	Yes 35.00
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	dr Ljuba Budinski-Petković	Fizika		Fakultet tehničkih nauka u Novom Sadu	2008
2,	D. Čirić, A. Kozmidis-Petrović i drugi	Zbirka rešenih zadataka iz fizike I deo		Fakultet tehničkih nauka u Novom Sadu	2004
3,	M. Satarić, U. Kozmidis-Luburić, Lj. Budinski-Petković i dr.	Zbirka rešenih zadataka iz fizike II deo		Fakultet tehničkih nauka u Novom Sadu	2005
4,	Lj. Budinski-Petković, M. Vučinić-Vasić, D. Ilić	Praktikum laboratorijskih vežbi iz fizike			2005



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Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering			
Course id:	E216				
Number of ECTS:	9				
Teachers:	Bajović M. Vera, Đurić M. Nikola, Pekarić-Nadž M. Neda				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	4	0	0	0	
Precondition courses					
None					
1. Educational goal:					
Course objective is to teach students to solve simple electric circuits of direct current and time variable currents, as well as to calculate impedance and basic physical parameters of the loads in such networks, resistance of resistors, inductance of coils and capacitance of capacitors. Also, the objective is to teach the students how to solve single phase circuits as well as simple balanced three-phase circuits.					
2. Educational outcomes (acquired knowledge):					
Students who successfully complete the course are able to calculate capacitance of a simple homogeneous symmetric structures, to calculate resistance of homogeneous multilayer structures, to solve simple electric circuit of direct current, to calculate magnetic field of simple symmetrical current carrying structures, to calculate inductance of simple structures with windings, to solve simple electric and magnetic circuits with alternating currents and to calculate instantaneous, active, reactive and apparent power in single phase and balanced three phase circuits.					
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 DC- direct current, (Current density vector and current intensity, Ohm's law and resistors, Joule's law, Kirchhoff's Laws, Generators, Maximum power transfer, Power conservation theorem, Methods for circuit analysis, Superposition Theorem, Thevenin's and Norton's theorem, Compensation theorem), DC magnetic field (Magnetic flux density vector, Biot-Savart Law, Magnetic flux, Ampere's Law, Ferromagnetic materials, Magnetic properties of materials, Boundary conditions, Magnetic circuits). Low frequency time harmonic electromagnetic field (Electromagnetic induction, Faraday's Law, Lenz's Law, Eddy currents, Skin effect and proximity effect, Self inductance and mutual inductance, Transformers, Energy and forces in magnetic field). Electric circuits of AC-alternating current (Simple sinusoidal current circuits, Impedance, Circuit analysis in complex domain, Complex power, Maximum average power transfer, Power factor correction, Simple resonant circuits, Magnetically coupled circuits, Balanced three-phase systems) .					
4. Teaching methods:					
The teaching process consists of lectures, problem solving and lab work, with occasional video presentations. The inductive method is applied. The students' knowledge grows gradually, through 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,	Neda Pekarić – Nađ, Dejana Herceg	Osnovi elektrotehnike za računarstvo		FTN, Novi Sad	2000
2,	Neda Pekarić-Nadž, Vera Bajović	Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike		Građevinska knjiga, Beograd	1987



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Table 5.2 Course specification

Course:		Computer Architecture			
Course id:	E217				
Number of ECTS:	9				
Teachers:		Hajduković P. Miroslav, Živanov S. Žarko			
Course status:		Mandatory			
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 learn about principles of computer operation, architecture of its commands, organization and implementation of computer. They acquire beginner's level knowledge of assembler programming.					
2. Educational outcomes (acquired knowledge):					
Beginner's level knowledge of computer architecture and of assembler programming.					
3. Course content/structure:					
Notion of computer architecture. Computer model. Machine data representation. Architecture of instructions, assembler languages and assembler programming (subrprogram, macro, stack). Principles of computer organization (memory, processor, coding and formats of machine instructions, processor organization, input-output devices, bus, interrupts). System programs (editor, assembler, macro pre-processor, linker, loader, debugger, operating system), Evolution of computer architecture (CISC, RISC, scalar and vector processors; memory hierarchy: main, peripheral, associative, cache and virtual memory, input-output devices, bus, multiprocessors and multicomputers, parallelism at the level of instruction at the level of instruction rows.					
4. Teaching methods:					
Lectures, computer practice. Consultations. Pre exam assignments include four tests and one course project. The final examination test the theoretical part of the course material. The number of points 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, Ž. Živanov	Arhitektura računara - pregled principa i evolucije		FTN Izdavaštvo, Novi Sad	2013



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Table 5.2 Course specification

Course:		English Language – Intermediate				
Course id:	EJ2L					
Number of ECTS:	3					
Teachers:	Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
3	0	0	0	0		
Precondition courses						
1. Educational goal:						
Knowledge about the basics of English for Specific Purposes related to students' future profession. Students read a selection of engineering and scientific texts covering different areas of computing and control engineering in order to learn professional terms in accordance with definitions, classifications, terms and notions adopted by contemporary European and international standards. The knowledge of the English language is expanded by including new vocabulary, compounds, use of prefixes and suffixes, grammatical and syntax structures characteristic of English for specific purposes in this area.						
2. Educational outcomes (acquired knowledge):						
Students acquire enough knowledge and skills to use professional English in simple communication with clients, colleagues and employers.						
3. Course content/structure:						
A selection of texts from professional engineering areas. Systematization of verb tenses, conditional sentences, direct and indirect speech, passive.						
4. Teaching methods:						
Teaching is done using communicative method of language learning. After a short introduction about a topic, the students read the text and find new words in a dictionary. This is followed by a discussion about the topics mentioned in the text and the conclusions offered there. A part of the class is devoted to learning and practicing new vocabulary through oral and written exercises as well as to revision and expansion of knowledge related to certain grammar structures. Students are encouraged to communicate in English through group discussions and pair work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Test		Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00	
Test		Yes	10.00	Oral part of the exam	Yes 30.00	
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Eric H. Glendinning, John McEwan	Basic English for Computing		Oxford University Press, Oxford	2003	
2,	Edita Čavić	English in Architecture		Naučna knjiga, Beograd	2001	
3,	John and Liz Soars	New Headway Pre-Intermediate		Oxford University Press, Oxford	2003	
4,	N. Coe, M. Harrison, K. Paterson	Oxford Practice Grammar - Basic		Oxford University Press	2006	



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Table 5.2 Course specification

Course:		English Language – Advanced				
Course id:	EJ3L					
Number of ECTS:	3					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		0	0	0		0
Precondition courses						
1. Educational goal:						
Knowledge about the most important terms in English for Specific Purposes related to students' future profession. Developing strategies for understanding foreign language texts. Ability to read and understand original English texts related to various aspects and areas in the field of study. Developing oral and written communication related to these topics using adequate vocabulary and complex sentence structure.						
2. Educational outcomes (acquired knowledge):						
Students acquire a wide vocabulary related to their field of study. They can use professional literature in this field and communicate about professional topics in English, using terms and sentence structures characteristic of their future profession.						
3. Course content/structure:						
Analysis of a number of contemporary texts related to various aspects and topics related to students future profession. Developing strategies for understanding ESP texts such as: skimming, scanning, comparing sources, using context, using background knowledge, etc. Mastering most frequent terms related to students' future profession. Acquiring language functions such as comparison, classification, describing purpose and function, describing components, cause and effect relations, etc. Most frequent prefixes, suffixes, compounds and collocations. Passive constructions, participle constructions. Reduced relative clauses (active and passive), reduced time clauses (active and passive).						
4. Teaching methods:						
Emphasis is on students' communicating among themselves and with the teacher. Teaching is done using communicative method of language learning. Exercises are designed in such a way as to aid and check text comprehension and to practice suitable vocabulary and other characteristic elements of ESP. Some of the exercises are purposefully designed to encourage students to use their knowledge of the subject area and make comments and explanations which provide additional language practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Test			Yes	10.00	Written part of the exam - tasks and theory	Yes 40.00
Test			Yes	10.00	Oral part of the exam	Yes 30.00
Test			Yes	10.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	Eric Glendinning, John McEwan		Oxford English for Information Technology		Oxford University Press	2006
2,	Edita Čavić		English in Architecture		Naučna knjiga, Beograd	2001
3,	John Eastwood		Oxford Practice Grammar-Intermediate		Oxford University Press	2000
4,	grupa autora		Oxford English-Serbian Dictionary		OUP	2000


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Table 5.2 Course specification

Course:		German Language - Elementary						
Course id:	NJ1L							
Number of ECTS:	3							
Teachers:		Berić B. Andrijana, Jović Đ. Miomira						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:		
3		0	0	0		0		
Precondition courses						None		
1. Educational goal:								
Mastering the basics of the German language: pronunciation, spelling, acquisition of vocabulary related to simple, everyday situations, mastering the basics of German morphology.								
2. Educational outcomes (acquired knowledge):								
Students are able to use spoken and written German in simple, everyday situations.								
3. Course content/structure:								
Practical part of the course: mastering basic speech patterns, pronunciation and spelling rules; developing listening skills. Vocabulary related to everyday topics: introduction, family, free time, work, food and beverages, naming and description of everyday objects, description of people and places, understanding directions, introduction to German culture, etc. Theoretical part of the course: present, perfect, reflexive verbs, cases, use of definite and indefinite article, negation, interrogative sentences, statements, possessive pronouns, demonstrative pronouns, indefinite pronouns, modal verbs, imperative, comparison of adjectives, some prepositions, sentences with denn, deshalb, sonst and trotzdem.								
4. Teaching methods:								
Emphasis is on communicative method and students' activity in class. Interaction between students is encouraged in communication.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points	
Test		Yes	10.00	Written part of the exam - tasks and theory		Yes	35.00	
Test		Yes	10.00	Oral part of the exam		Yes	35.00	
Test		Yes	10.00					
Literature								
Ord.	Author		Title			Publisher		Year
1,	Aufderstraße, Bock, Gerdes, J. Müller. H. Müller		Themen aktuell 1			Hueber Verlag		2003



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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:	Mandatory				
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 Čalasan, 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


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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, Fourier 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, Fourier 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, Fourier 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. Fourier 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: Fourier 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


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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Object Programming					
Course id:	E223A						
Number of ECTS:	8						
Teachers:		Malbaški T. Dušan, Kupusinac D. Aleksandar					
Course status:		Mandatory					
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:							
Knowledge about the principles, techniques and ways of using object methodology and technologies for software development.							
2. Educational outcomes (acquired knowledge):							
Students should know how to use object approach for developing programs on a concrete object programming language.							
3. Course content/structure:							
Problem domain, model, implementation. Basic notions and terminology. Abstraction and information hiding. Class implementation. Operation classification. Constructors and destructors. Notion and types of polymorphisms. Operator overlapping. Association. Aggregation. Inheritance. Usage connections. Other dependancy connections. Generic classes.							
4. Teaching methods:							
Lectures, Computer practice. Consultations. Of the overall 100 points, 70 points are gained during the course and 30 at the theoretical examination. Pre examination assignments include: two small projects (15 points each) and four tests (10 points each) which makes a total of 70 points. In order to pass the examination a student must achieve min 55 points. Students who do not achieve 25 points during the course (which is a theoretical minimum) 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 (knjiga je više puta prešampavana)		1994
2,	Malbaški D.	Objekti i objektno programiranje			Univerzitet u Novom Sadu (u štampi)		2007
3,	Malbaški D.	Internet programiranje, deo 1: Programski jezik java			Univerzitet u Novom Sadu, Tehnički fakultet "Mihajlo Pupin"		2007

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Table 5.2 Course specification

Course:		Operating Systems			
Course id:	E225				
Number of ECTS:	8				
Teachers:		Hajduković P. Miroslav, Suvajdžin Rakić B. Zorica			
Course status:		Mandatory			
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 principles of operating systems, their organization, structure and implementation. They acquire beginner's level knowledge of concurrent programming.					
2. Educational outcomes (acquired knowledge):					
Knowledge of operating systems principles, their organization, structure and implementation. Beginner's level knowledge of concurrent programming.					
3. Course content/structure:					
Notion of operating system. Concurrency and synchronization (concurrent processes, cooperation and synchronization of processes, shared variables, message passing, mutual exclusion, synchronization, means of process cooperation and synchronization, deadlock, concurrent programming languages and their implementation, typical problems of concurrent programming, producers and consumers, philosophers, readers and writers, disk management, ...) Operating system tasks (command interpretation, process management, data management, main memory management, management of devices, process scheduling). Operating system interface (scripts and system calls), Security and protection, Types of operating systems (operating systems of shared and real time, distributed operating systems), Parallel programming.					
4. Teaching methods:					
Lectures, Computer practice. Consultations. Pre exam assignments include four tests and one course project. The final examination test the theoretical part of the course material. The number of points 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	Operativni sistemi - problemi i struktura		FTN Izdavaštvo, Novi Sad	2013





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Table 5.2 Course specification

Course:		Sociological Aspects of Technical Development			
Course id:	E251A				
Number of ECTS:	3				
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 their own social importance and responsibility in the creation of humane society.					
2. Educational outcomes (acquired knowledge):					
Acquisition of social knowledge about features, sources, social functions of technology and creators of technical knowledge; knowledge about the impact of the nature of social systems on technical development and the impact of technology on the development of a society; knowledge about impact of technology on processes and changes in modern society: globalization, changes in the work content and forms of work organization, changes in communication, culture, education, democracy, way of life and thinking, knowledge about the negative aspects of technological development, nature destruction, work alienation, creation of risky society.					
3. Course content/structure:					
Technical knowledge: features and social functions of technology, sources of technical knowledge, creators of technical knowledge, dissemination of technical knowledge, scientific-technical potential, science and technology relationship. Relationship between technology 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 technology on life, awareness and culture. Technology and globalization: causes and dimensions of globalization, technological gap, brain drain; Technology 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. Technology and alienation at work: the impact of technology, forms of alienation, humanization of labour. Mass media and communications; global television, the impact of television on society, media theories, mobile telephony and the internet, the impact of internet on society, media imperialism, mass culture, cyber criminal. Technology and education: education and new communication technologies, education and technological gap, virtual universities, intelligence and educational success. Technology and democracy: global media and liberal democracy, media and virtual reality, resistance and alternatives to global media. Technology 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
Homework		Yes	5.00	Oral part of the exam	Yes 50.00
Lecture attendance		Yes	5.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Radoš Radivojević	Tehnika i društvo		Fakultet tehničkih nauka	2004
2,	Radoš Radivojević	Sociologija nauke		Stylos	1997
3,	Entoni Gidens	Sociologija		Ekonomski fakultet	2003
4,	Friedrics, G. Schaff. A,	Mikroelektronika i društvo		Globus	1987
5,	James Stevin	The Internet and Society		Camridge, Polity	2000
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

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	Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
Literature					
Ord.	Author	Title	Publisher	Year	
9,	Jan L. Harrington	Technology and Society	Jones & Bartlett	2011	
10,	Deborah G. Johnson, Jameson M. Wetmore	Technology and Society: Building our Sociotechnical Future	MIT Press	2009	



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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Probability and Stochastic Processes				
Course id:	E224A					
Number of ECTS:	5					
Teachers:		Stojaković M. Mila, Mihailović P. Biljana				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		1	0		0	1
Precondition courses						



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Table 5.2 Course specification

Course:		Real Time System Programming 1				
Course id: E23A2						
Number of ECTS: 6						
Teacher:		Popović V. Miroslav				
Course status:		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:						
Teaching students parallel programming of multicore processors and design of software tools for real time systems.						
2. Educational outcomes (acquired knowledge):						
Ability to write parallel programs for multicore processors by using parallel programming patterns, models, and tools, and designing software tools for real-time systems, including assembler, macro assembler, compiler, etc.						
3. Course content/structure:						
Introduction. Part 1: Parallel Programming (Program analysis, Parallel programming design patterns, Parallel programming models, Parallel programming tools). Part 2: Software tools design (Assembler, Macro assembler, Formal systems, Compiler, Loader, Integrated development environment, Highly optimizing compilers, Linker, Compactor, Simulator, Debugger).						
4. Teaching methods:						
Lectures, tutorials, computer practice classes, consultations. During the semester students complete laboratory practice tasks						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Laboratory exercise defence		Yes	70.00	Theoretical part of the exam		Yes 30.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	V. Kovačević i M. Popović	Sistemska programska podrška u realnom vremenu 1: Programski alati i paralelno programiranje			FTN Izdavaštvo, Novi Sad	2011



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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Electronics			
Course id:	E222A				
Number of ECTS:	8				
Teachers:	Malbaša D. Veljko, Živanov D. Ljiljana				
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					
None					
1. Educational goal:					
The objective of the course is to teach students, who have no previous knowledge of electronics, to understand the phenomena which happen in semiconductor materials, the basic principles of semiconductor component operation and how these components are employed in the design and production of basic amplifier and digital electronic circuits which make the hardware component of modern computer systems.					
2. Educational outcomes (acquired knowledge):					
Students who successfully complete the course and the prescribed assignments will be able to:					
- demonstrate understanding of the basic principles of operation of semiconductors and semiconductor components,					
- demonstrate understanding of the basic principles of operation of amplifier circuits and signal conditioning circuits					
- demonstrate understanding of the principles and parameters of digital electronic circuits					
- design simple digital combinational and sequential electronic modules and explain the principles on which they work					
- demonstrate the understanding of how functional units of modern computers are formed using standard digital electronic modules.					
3. Course content/structure:					
Semiconductor phenomena. Semiconductor components: diode, bipolar transistor, mosfet, thyristor, opto coupler and opto elements, basic characteristics and operations. How basic electronic components are used. Fundamentals of integrated circuit technology. Fundamentals of amplifier circuits. Basic characteristics of digital signals and basics of logic circuit realization. TTL and CMOS technologies. Fundamentals of digital electronics, standard combinational and sequential modules. Fundamentals of pulse electronics. Power sources in electronic devices.					
4. Teaching methods:					
Theoretical basics are taught at lectures by the course teacher. Auditory practice classes are used for illustration of the course material. At laboratory practice classes students use specially prepared models where they apply in practice their knowledge of design and measurement methods which they acquired at lectures and auditory practice classes.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		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,	S. Tešić, D. Vasiljević	Osnovi elektronike		Građevinska knjiga Beograd	2005
2,	Ljiljana Živanov	Elektronika		Skripta, Fakultet tehničkih nauka	2009



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Table 5.2 Course specification

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

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Table 5.2 Course specification

Course:		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



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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


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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

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



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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	



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Table 5.2 Course specification

Course:		Fundamentals of Computer Networks 1				
Course id: E23B						
Number of ECTS: 4						
Teachers:		Bašičević V. Ilija, Samardžija M. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		0	1		0	1
Precondition courses						
1. Educational goal:						
Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.						
2. Educational outcomes (acquired knowledge):						
Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.						
3. Course content/structure:						
Basic notions and definitions (structure of computer network, types of networks, network typologies, the Internet). Communication controllers in a computer system. Network connectivity components. Software for managing network connectivity components. Physical architecture of network connectivity processors (access, passage and combined). Network connectivity processor software. Open system architecture (application layer, adjustment layer, communication layer, transport layer, network layer, channel layer, physical layer).						
4. Teaching methods:						
Lectures: Tutorials. Computer practice. Consultations.						
Students work during the semester at computer practice classes on developing their examination paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Complex exercises		Yes	20.00	Coloquium exam		No 20.00
Computer exercise attendance		Yes	5.00	Theoretical part of the exam		Yes 40.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks		Yes 30.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	V. Kovačević, M. Popović i Ž. Jurca	Osnovi računarskih mreža, skripta.				2007


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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Real-time control systems				
Course id: E2316						
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		1	2		0	1
Precondition courses		None				
1. Educational goal:						
Mastering theoretical and practical principles of real-time control systems						
2. Educational outcomes (acquired knowledge):						
The students will learn the basics of design and implementation of real-time control systems. Using the obtained knowledge, the students will be able to access the relative difficulty of practical control problems, to access resources needed for the implementation, to design control algorithm, to find critical points and implement the design solution. The students will also be able to test and verify the obtained design.						
3. Course content/structure:						
Basics of real-time control. Basics of digital control systems. Z/transform. Hardware architecture of real-time systems. Real-time operating systems. Programming languages for real-time systems. Real-time control algorithms. Implementation of digital regulators. Parameter estimation. Real-time simulation (HIL, Hardware in the Loop simulation). Application of optimization methods in real-time control.						
4. Teaching methods:						
Lectures. Computational assignments. Laboratory assignments. Consultations. The final mark is obtained on the basis of theoretical tests (2 tests in total), and the laboratory assignments.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance			Yes	10.00	Oral part of the exam	Yes 30.00
Laboratory exercise defence			Yes	45.00		
Test			Yes	5.00		
Test			Yes	10.00		
Literature						
Ord.	Author	Title			Publisher	Year
1,	Zoran Jeličić, Milan Rapaić, Boris Jakovljević	Skripta iz primene upravljačkih algoritama u realnom vremenu				2010
2,	National Instruments	LabView – user manual			National Instruments	2003
3,	Phillip A. Laplante , Seppo J. Ovaska	Real-Time Systems Design and Analysis: Tools for the Practitioner			Wiley-IEEE Press	2011



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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

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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



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Table 5.2 Course specification

Course:		Automation in smart office-residential buildings			
Course id:	E2311				
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:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
Students gain theoretical and practical knowledge about automation of office-residential buildings.					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge can be used in solving base engineering problems and practical applications in building automation field.					
3. Course content/structure:					
The history of use of modern automation solutions in the automation of office and residential buildings. Standards in the field of office / residential buildings automation. DCS architecture in building automation systems. Communication protocols (LON, KNX, X10). Control of HVAC systems in office and residential buildings. Lighting in office and residential buildings.					
4. Teaching methods:					
Lectures, computer and laboratory practice, consultations. The theoretical part of the course is evaluated through oral exam where students answer problem questions. The oral part of the exam is worth up to 30 points and based on a set of exam questions. The practical part of the exam is taken in computer laboratory (colloquium and exam) and through homework assignments. The final grade is formed on the bases of the quality of homework assignments and computer assignments and the oral part of the exam.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Oral part of the exam	Yes 30.00
				Practical part of the exam - tasks	Yes 40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Profesor	Štampani materijal koji pokriva pojedina izlaganja i vežbe			2005
2,	Roger W. Haines Douglas C. Hittle	Systems for heating, ventilating and air conditioning		Springer	2008



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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Computational Intelligence Fundamentals						
Course id:	E236A							
Number of ECTS:	8							
Teachers:		Konjović D. Zora, 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	1	
Precondition courses							None	
1. Educational goal:								
Students learn about the basic principles and techniques of "classical" artificial intelligence and soft computing.								
2. Educational outcomes (acquired knowledge):								
Identification, structure and techniques of solving problems which require intelligence.								
3. Course content/structure:								
Concepts, aims, approaches, environment and areas of AI application. Logical programming: propositional and first order logic; Prolog programming language. Search: blind and heuristic search, genetic algorithms. Problem solving in uncertainty conditions: probabilistic approach, fuzzy approach. Fundamentals of machine learning, types of algorithms, approaches, artificial neural networks. Knowledge based systems. Intelligent software agents: definition, types, architecture, technologies. Applications of AI.								
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 point 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
Homework			Yes	2.00				
Lecture attendance			Yes	3.00				
Project			Yes	25.00				
Project task			Yes	15.00				
Term paper			Yes	20.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Stuart Russel, Peter Norwig		Artificial Intelligence: A Modern Approach			Prentice Hall, 2003, ISBN: 0-13-790395-2		2003
2,	David Poole, Alan Mackworth, Randy Goebel		Computational Intelligence A Logical Approach			Oxford University Press, 1998, ISBN 0-19-510270-3		1998
3,	Đorđe Obradović, Zora Konjović		Računarska inteligencija - Priručnik za vežbe			FTN, 2004, (elektronsko izdanje)		2004
4,	M. Wooldridge		An Introduction to Multiagent Systems			John Wiley and Sons		2002



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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Software Specification and Modeling			
Course id:	E242				
Number of ECTS:	8				
Teachers:		Perišić R. Branko, Milosavljević R. Gordana			
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 efficient and effective modeling and specification of software systems. They gain knowledge and skills necessary for analysis and specification of software requirements. They learn the basics of model based design. They learn about UML specifications.					
2. Educational outcomes (acquired knowledge):					
After successfully finishing the course the students have these abilities: analysis of complex systems, specification of requirements according to the system and software and application of UML formalisms with modeling static and dynamic behavior of system and software.					
3. Course content/structure:					
Basic software system model. Relationship between requirement specification, design specification and software system implementation. Basics of requirement engineering, process, expression, analysis, design specification, requirement verification and validation. Development of formal document – requirement specification. Basics of software design, static and dynamic modeling. Basics of UML, structure, organization and meta-model. UML diagrams: use case diagram, class diagrams, object diagrams, cooperation diagram, sequence diagram, activity diagram, state diagram. Advanced UML modeling: Interface, packets and physical architecture modeling. Architectural and design patterns and their application in software system architecture.					
4. Teaching methods:					
In the theoretical part of the course, parallel with the introduction of knowledge and skills related to specification and modeling of systems and software , students from project teams of 3 to 5 members and working in teams practice what they have learnt on two typical projects of complex systems from real life. The first project deals with system which is primarily oriented towards data and manipulation of data and is modeled in tutor operating model. The second project deals with events driven system and its modeling is given to project teams. As part of lecture classes the teams report on their progress on the project. At the practical part of the course the students defend their project solutions.					
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 20.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes 30.00
Project task		Yes	40.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko Perišić	“Specifikacija i modeliranje softvera”		Elektronska verzija-PDF,PPT	2005
2,	S.L.Pfleeger, J. M. Atlee	Softversko inženjerstvo Teorija i praksa, treće izdanje		Prentica Hall, CET-Beograd	2006
3,	L. A. Maciaszek	“Requirements Analysis and System Design” Developing Information Systems with UML		Addisom Wesley	2001
4,	OMG	OMG web sajt		www.omg.org	2007
5,	Grady Booch, James Rumbaugh, Ivar Jacobson	UML Vodič za korisnika		CET , Beograd	2000



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Table 5.2 Course specification

Course:		Human Computer Interaction			
Course id:	E243				
Number of ECTS:	4				
Teachers:	Ivetić V. Dragan, Mihajlović R. Dragan, Hajduković P. Miroslav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	1	0	1	
Precondition courses					
1. Educational goal: Students learn to design and implement basic forms of human computer interaction.					
2. Educational outcomes (acquired knowledge): The acquired knowledge and skills are the basis for developing software of high utility capacity in the future courses and professional life.					
3. Course content/structure: HCI development and problems. User-centered and participated design. Essential knowledge in cognitive psychology, heuristics and MVC/MVP/MVVM architectures. Requirements gathering, interpretation and analysis. Understanding users, tasks and context of use. HCI notations. HCI prototypes and their evolution. UI Development Tools. HCI design spaces: GUI, web, mobile, embedded, ubiquitous. Representation and visualization. Interaction devices. Usability and evaluation.					
4. Teaching methods: Lectures, computer practice, consultations. The course material is divided into two parts and is tested in two tests during the duration of the course. During the practice classes interfaces of different complexity and minimal functionality are implemented. The quality of the Practice work is evaluated. Successfully completed practice tasks are a prerequisite for taking final examination. The final examination is written. The final grade is based on the number of points on the examination, tests and practice tasks.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	50.00	Theoretical part of the exam	Yes 30.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Ivetić,	Interakcija čovek računar		-	2012
2,	Ben Shneiderman	Designing the User Interface – Strategies for Effective Human-Computer Interaction, 3rd Ed.			1998
3,	Alan Dix, Janet Finlay, Gregory Abowd	Human-Computer Interaction, 2nd Ed			1998
4,	Jenny Preece, Yvonne Rogers, Helen Sharp, Benyon	Human-Computer Interaction			1995
5,	M. van Harmelen (Ed.)	Object Modeling and User Interface Design		Addison-Wesley	1997
6,	Marry B. Rosson, John M. Carroll	Usability Engineering – Scenario-Based Development of HCI			2002

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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Computer Network Fundamentals 2				
Course id:	E23B1					
Number of ECTS:	4					
Teachers:		Samardžija M. Dragan, Bašičević V. Ilija				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		0	2		0	0
Precondition courses		None				
1. Educational goal:						
Students gain fundamental knowledge about computer networks and are able to design and realize simple communication programs.						
2. Educational outcomes (acquired knowledge):						
Knowledge about basic notions, standards and technologies in the field of computer networks, and the ability design and realize simple communication programs.						
3. Course content/structure:						
Standards in intercomputer communications. Designing a topology of computer networks. Flow control in computer networks. Network direction and identification. Intercomputer communication devices. Network operating systems (administration, supervision and operational management) Internet (architecture and services).						
4. Teaching methods:						
Lectures: Tutorials. Computer practice. Consultations.						
Students work during the semester at computer practice classes on developing their examination paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	
Project task			Yes	30.00	Coloquium exam	
					Theoretical part of the exam	
					Practical part of the exam - tasks	
Literature						
Ord.	Author		Title		Publisher	Year
1,	V. Kovačević, M. Popović i Ž. Jurca		Osnovi računarskih mreža, skripta		FTN	2007



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Table 5.2 Course specification

Course:		Fundamentals of DSP Architecture and Algorithms 2				
Course id:	E2401					
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	1		0	1
Precondition courses		None				
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:						
Software for digital signal processing at various speeds. Software for digital processing of audio signals. Software for quantization and speech coding. Audio codec software. Video signal processing software.						
4. Teaching methods:						
Lectures: Tutorials. Computer practice. Consultations. Students work during the semester at computer practice classes on developing their examination paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project task			Yes	30.00	Coloquium exam	No 40.00
					Theoretical part of the exam	Yes 30.00
					Practical part of the exam - tasks	Yes 40.00
Literature						
Ord.	Author		Title		Publisher	Year
1.	S. Berber		Digitalna obrada signala		FTN	2004



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Table 5.2 Course specification

Course:		Selected Chapters in Physical Architecture Design				
Course id: E244						
Number of ECTS: 6						
Teachers:		Teslić Đ. Nikola, Pjevalica U. Nebojša				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	2		0	1
Precondition courses						
1. Educational goal:						
Students will be able to design, realize and test complex digital systems by learning about selected 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



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Table 5.2 Course specification

Course:		Dedicated Computer Structure Design 1					
Course id: RT52A							
Number of ECTS: 8							
Teacher:		Pap I. Ištvan					
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:							
Students will learn about the basics of designing dedicated computer structure using VHDL.							
2. Educational outcomes (acquired knowledge):							
Students know the basic standards and technologies required for designing dedicated computer structures and are able to use VHDL language of multiprocessor computer structures.							
3. Course content/structure:							
Design of multiprocessor computer structures using VHDL. Design in the field of intercomputer communications and networks. Design in the field of ISDN, ATM, SDH. Design based on digital signal processors. Examples and practical work in the laboratory.							
4. Teaching methods:							
Lectures, Tutorials, Computer practice, Consultations							
During the term students attend lectures and computer practice classes. During the term students work on their examination paper at the computer practice classes.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations			Mandatory	Points	Final exam		
Project			Yes	30.00	Coloquium exam		
					Theoretical part of the exam		
					Practical part of the exam - tasks		
Literature							
Ord.	Author		Title			Publisher	Year
1,	B. Atlagić		Projektovanje namenskih računarskih struktura, skripta				2007



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Table 5.2 Course specification

Course:		Biomedical Engineering Technologies				
Course id: AUN43						
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:						
This course is students' first encounter with the field of biomedical engineering. The objective of the course is to provide, through carefully selected examples from this field, introduction and first encounter with this multidisciplinary scientific discipline.						
2. Educational outcomes (acquired knowledge):						
The acquired knowledge is used in future education and engineering subjects.						
3. Course content/structure:						
Engineering in medicine: basic postulates and standards. Methods for protection of patients and medical staff from the negative effects of electrical current when measuring biomedical signals. Medical instrumentation in electro physiology: structure of instrumentation, methods of connection, protection from interference and noise. Telemedicine: remote transmission of medical signals and images, wireless sensors. Clinical laboratory instrumentation: electro-chemical sensors, automatic counting and detection of red blood cells. Sensors for measuring biomechanical quantities.						
4. Teaching methods:						
Theoretical aspects are presented at lecture classes, with practical examples. In the laboratory practice classes and through the obligatory project tasks students further develop this knowledge and gain practical skills. Interactive work with students is achieved at 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 30.00
Homework			Yes	5.00		
Laboratory exercise defence			Yes	30.00		
Test			Yes	10.00		
Test			Yes	10.00		
Test			Yes	10.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	D. Popović, M. Popović, M. Janković		Biomedicinska merenja i instrumentacija		Akademska misao, Elektrotehnički fakultet Beograd	2010


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Table 5.2 Course specification

Course:		Software design for SCADA systems				
Course id: E2312						
Number of ECTS: 8						
Teachers:		Erdeljan M. Aleksandar, Vukmirović M. Srđan, Čapko Lj. Darko				
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:						
Mastering theoretical and practical basics of software design for SCADA systems						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge can be used in solving specific engineering problems, and it also represents a basis for taking other professional courses.						
3. Course content/structure:						
Architecture of Supervisory Control and Data Acquisition (SCADA) systems; Architecture of component for collecting data from industry systems; Reliability and availability of the system; Design of real-time data base; Design of component for collecting and processing alarms and events; Design of user interface (forms, geographical views, engineering view); Design of subsystem for batches, reporting, distributed calculation; Design of component for integration with enterprise systems; Mobile applications is SCADA.						
4. Teaching methods:						
Lectures. Computer practice. 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 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.	Davi Balley	Practical SCADA for Industry			Newnes	2003



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

Table 5.2 Course specification

Course:		Microprocessor Based Control Devices				
Course id: E2314						
Number of ECTS: 8						
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	3		0	1
Precondition courses None						
1. Educational goal:						
Acquiring basic knowledge about microprocessor based control devices.						
2. Educational outcomes (acquired knowledge):						
Students learn about technologies and development trends in the field of microprocessor based control devices.						
3. Course content/structure:						
Basic concepts of microprocessors and microcontrollers. Memories and DMA controllers. Microcomputer peripherals. Management of critical sections (interrupts, high speed inputs and outputs,timers/counters). Communication controllers: UART, I2C, SPI. Displays, keyboards. Galvanic isolation of digital and analog inputs and outputs. Electromagnetic compatibility and protection. Architectures of PLC devices. Architectures of industrial controllers. Industrial communication interfaces: RS485, RS422, PROFIBUS, MODBUS, CANBUS.						
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	20.00	Oral part of the exam	Yes 30.00
Project			Yes	30.00		
Test			Yes	10.00		
Test			Yes	10.00		
Literature						
Ord.	Author		Title		Publisher	Year
1.	Milan Prokin		Mikroprocesorska elektronika		Akademska misao	2003



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Table 5.2 Course specification

Course:		Geospatial Technologies				
Course id:	E241					
Number of ECTS:	4					
Teachers:		Govedarica J. Miro, Pribičević I. Boško				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
2	0	1		0		1
Precondition courses						
None						
1. Educational goal:						
Students will gain fundamental and applied knowledge in the field of geomatics and geoinformatics. Introduction to the current geospatial technologies and areas of application.						
2. Educational outcomes (acquired knowledge):						
The acquired knowledge is used in engineering courses and in solving engineering problems using geospatial technologies.						
3. Course content/structure:						
Place and role of geospatial technologies. Basic terms and terminology. Reference frame. Sensors systems, Geosensors systems and networks. Acquisition of geospatial data (GNSS, photogrammetry, remote sensing, laser scanning), GPS – technology bases and applications. Data acquisition using GNSSTEchnology. Photogrammetry - principles and applications. Remote sensing - principles and applications. Data classification and segmentation. Laser scanning - principles and applications. Interpretation and presentation of geospatial data. Visualization. Technology bases and applications of visualization. Application of geoinformation technologies in various fields. Interaction with geonformation systems.						
4. Teaching methods:						
Teaching methods include lectures, computer practice, consultations , independent work on obligatory assignments. Evaluation: guided and independently developed obligatory assignments; written tests; final examination is oral.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Computer excersise defence		Yes	10.00	Theoretical part of the exam		Yes 30.00
Computer excersise defence		Yes	10.00			
Computer excersise defence		Yes	10.00			
Computer excersise defence		Yes	10.00			
Computer excersise defence		Yes	10.00			
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title			Publisher	Year
1,	C. Jones	Geographical Information Systems and Computer Cartography			Pearson Education Inc.	1997
2,	P. Mather	Computer Procesding of Remotly-Sensed Images: An Introduction			John Wiley&Sons, Ltd	2004
3,	Keith R. McCloy	Resource Managment Information Systems Remote Sensing. GIS and Modelling			Taylor & Francis	2006



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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Professional Practice – Project					
Course id:	E23SP						
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:							
Students expand their practical knowledge in the field of computing and control engineering							
2. Educational outcomes (acquired knowledge):							
The acquired knowledge can be used in solving practical engineering problems.							
3. Course content/structure:							
Solving concrete engineering problems in practice.							
4. Teaching methods:							
Teaching is performed in industrial or scientific and educational institutions, in the form of individual work.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points
Homework		Yes	70.00	Theoretical part of the exam		Yes	30.00
Literature							
Ord.	Author	Title			Publisher		Year
1,	grupa autora	Odgovarajući materijal neophodan za rešavanje konkretnih problema.					nema



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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



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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



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Table 5.2 Course specification

Course:		Fundamentals of Biomedical Engineering			
Course id:	AU43				
Number of ECTS:	6				
Teachers:	Jorgovanović Đ. Nikola, Bojanić M. Dubravka, Rosić -. Mirko				
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					


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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



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Table 5.2 Course specification

Course:		Geoinformation Systems			
Course id:	AU54				
Number of ECTS:	4				
Teachers:	Govedarica J. Miro, Mihajlović R. Dragan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses					
None					
1. Educational goal:					
Students will gain fundamental and applied knowledge in the field of geomatics, geoinformatics and geoinformation systems. Introduction to the current GIS tools and areas of GIS application.					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge is used in engineering courses and in solving engineering problems using GIS technology.					
3. Course content/structure:					
Lectures: Place and role of geographic information systems (GIS). Introduction to GIS. Basic notions and terminology. Infrastructure of the data on space. Spatial referential frameworks. Modelling spatial objects, GIS data model, raster and vector models, geometry, space topology and topography. Decomposition of space elements. Architecture of GIS system. Spatial Databases. Interpretation and presentation on spatial data. Introduction to geospatial data visualisation. Geospatial analyses. GIS tools. Standardization in the field of geographic information systems and technologies – OpenGis, ISO TC211. Service oriented architecture of GIS - three tier architecture. Application of standards in the realization of GIS systems. Applications of GIS systems in diverse fields. Practice content: GIS tools introduction, GIS-based tools for geospatial data visualization and spatial analysis. Introduction to standards.					
4. Teaching methods:					
Forms of teaching: lectures, computer practice, consultations, individual work on obligatory tasks. Knowledge evaluation: Guided and independent work on obligatory tasks; written tests; final examination is oral.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence		Yes	10.00	Theoretical part of the exam	Yes 30.00
Computer excersise defence		Yes	10.00		
Computer excersise defence		Yes	10.00		
Computer excersise defence		Yes	10.00		
Computer excersise defence		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	C. Jones	Geographical Information Systems and Computer Cartography		Pearson Education Inc.	1997
2,	S. Shekhar, S. Chawla	Spatial Databases: A Tour		Pearson Education Inc.	2003
3,	Peter A. Burrough, Rachael A. McDonnell	Principi geografskih informacionih sistema		Građevinski fakultet Beograd	2006
4,	Keith R. McCloy	Resource Managment Information Systems Remote Sensing, GIS and Modelling		Taylor & Francis	2006



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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 Fuzzzv Systems		Springer-Verlag, 2001, ISBN: 3540422048		2001



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Table 5.2 Course specification

Course:		Internet Software Architectures				
Course id:	RI41					
Number of ECTS:	4					
Teacher:		Milosavljević P. Branko				
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 the design and construction of multilevel client/server systems based on distributed object technology.						
2. Educational outcomes (acquired knowledge):						
Knowledge about technologies and standards for construction of multilevel client/server systems. Students are competent to design multilevel, distributed software systems based on distributed object technology.						
3. Course content/structure:						
Architecture of multilevel client/server systems. Access to databases from server environment; connection control. Directory services and object identification. Technologies of distributed objects. Lifecycle of distributed objects. Control of shared resources in distributed environment. Transactional workflow. Distributed transactions. Object-relational mapping. Design patterns in distributed object environment.						
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		Yes	45.00	Oral part of the exam		Yes 55.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	B. Milosavljević, M. Vidaković	Java i Internet programiranje			GInT, Novi Sad	2002
2,	E. Roman, R. P. Shriganesh, G. Brose	Mastering Enterprise Java Beans, 3rd edition			Wiley and Sons	2005
3,	Floyd Marinescu	EJB Design Patterns			Wiley and Sons	2003



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Table 5.2 Course specification

Course:		Databases 2			
Course id:	RI43B				
Number of ECTS:	6				
Teachers:		Luković S. Ivan, Mihajlović R. Dragan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses					
1. Educational goal:					
Adopting the techniques and methods of database design and advanced 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: Information Systems and Management, Business Informatics, Database Systems.					
3. Course content/structure:					
Functional dependencies and algorithms for generating relation scheme keys. Multivalued and join dependencies. Normal forms and design criteria for structuring relational database schema. Decomposition method. Synthesis method. Transformations of ER database schemas into relational data model. Methodological approaches to database schema design process. CASE tools for database schema design.					
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		
Exercise attendance		Yes	5.00		
Project		Yes	20.00		
Project task		Yes	15.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Mogin Pavle, Luković Ivan, Govedarica Miro	Principi projektovanja baza podataka, II izdanje		Fakultet tehničkih nauka, Novi Sad	2004
2,	Mogin P, Luković I.	Principi baza podataka		Fakultet tehničkih nauka i MP Stylos, Novi Sad	1996
3,	Date C. J.	An Introduction to Database Systems (8th Edition)		Addison Wesley	2004


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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



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Table 5.2 Course specification

Course:		Computer Graphics			
Course id: RI4A					
Number of ECTS: 6					
Teachers:		Ivetić V. Dragan, Mihajlović R. Dragan, Hajduković P. Miroslav			
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:					
Students learn about development and manipulation of elements of computer graphics in 3D space.					
2. Educational outcomes (acquired knowledge):					
The acquired knowledge and skills are used for specific visualization information software using DirectX and/or Open GL, digitalization and processing of graphic materials - Photoshop, CorelDraw and Matlab.					
3. Course content/structure:					
Introduction. Hardware and software architecture ((OpenGL, DirectX, X3D) of graphic computer systems. Overview of 3D graphics pipeline. 3D modeling techniques. Model/view transformations. Colors. Local illumination and shading Clipping. Projection. Rasterisation. Hidden surface removal. Texture mapping and effects. Global Illumination. Graphics user interface and devices.					
4. Teaching methods:					
Lectures. Computer practice Consultations. Course material is divided into two parts and is examined in the form of two tests during the course. In practice classes 3D primitives are presented and manipulated using OpenGL or DirecX depending on the student's choice. The quality of the Practice work is evaluated. Successfully completed practice is a prerequisite for taking the final examination. The examination is written. the final grade is based on the sum of points achieved on examination, tests and practice tasks.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	50.00	Theoretical part of the exam	Yes 30.00
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Ivetić	Računarska grafika		-	2012
2,	J. F. Hughes , A. van Dam, M. McGuire, D. Sklar, J. D. Foley, S.K. Feiner, K. Akeley	Computer Graphics: Principles and Practice (3rd Edition)			2013
3,	Peter Shirley, Steve Marschner, with ...	FUNDAMENTALS OF COMPUTER GRAPHICS			2009
4,	Akenine-Möller T., Heines E. and Hoffman N	REAL-TIME RENDERING, 3rd Ed.			2008



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Table 5.2 Course specification

Course:		Intercomputer Communications and Computer Networks 1			
Course id:	RT41				
Number of ECTS:	6				
Teacher:		Bašičević V. Ilija			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	0	2	0	0	
Precondition courses					
1. Educational goal:					
Students are able to design, realize and test communication protocols and learn about the basics of TCP/IP Internet technologies.					
2. Educational outcomes (acquired knowledge):					
Students are able to design, realize and test communication protocols and know about the basics of TCP/IP Internet technologies.					
3. Course content/structure:					
Introduction. Protocol design (the notion of protocol, languages for formal specification of protocols - SDL, MSC, TTCN, UML). Methodology of protocol realization (core, design pattern, class library for realization of protocols). Examples of protocol realization: OSI LAPB and X.25 network level. The Internet (Structure of the Internet, component of the Internet physical architecture, Commutation elements). TCP/IP Internet (Internet services, history). Internet concepts (Internet address, ARP, RARP, Internet protocol IP, ICMP, UDP, TCP). Transparent protocol converters, subnetwork addressing and supranetwork addressing. Domain name system. Protocols and applications of remote interactive operation (telnet). Database transmission (TFTP and FTP). Electronic mail protocols and applications (e-mail, SMTP and POP3)					
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
Laboratory exercise attendance		Yes	5.00	Theoretical part of the exam	Yes 30.00
Lecture attendance		Yes	5.00		
Project		Yes	50.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Komer	TCP/IP Internet			2005
2,	M. Popović	Međuračunarske komunikacije i računarske mreže I, skripte			2005


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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



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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



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Table 5.2 Course specification

Course:		Real Time Software 2						
Course id: RT49A								
Number of ECTS: 5								
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: Monitor-control station software (data interchange protocols with process controller; communication protocols for computer components within NUS station, graphic operator subsystem). OPS connection (client connection on process highway, server connection with applications for technological leadership and decision support). Examples and practical work in laboratory.								
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					2005

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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Bachelor Thesis			
Course id:	E24BR				
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	9	
Precondition courses		None			
1. Educational goal:					
Application of basic theoretical, acquired knowledge and methods for solving concrete problems within the chosen field. A student studies a problem, its structure and complexity and, on the basis of the analysis, makes conclusions about the possible ways of solving it. By studying the relevant literature a student becomes familiar with the methods applied for solving similar tasks and the engineering practice for their solving. Acquiring the knowledge about the techniques, structure and form of writing a report after completing analysis and other activities accomplished within the given topic of the Bachelor thesis. Through a Bachelor thesis students acquire the experience in writing papers which involve the description of the problem, methodology, procedures and the achieved results in a form suitable for public presentation.					
2. Educational outcomes (acquired knowledge):					
The students are able to work independently applying the previously acquired knowledge from various areas in order to understand the structure of the problem faced and its systematic study so that conclusions can be made concerning the possible ways of solving it. Through independent use of the relevant literature the students extend the knowledge of the chosen field and study different methods and works related to the similar topics. Through independent work on solving the tasks in the given topic, the students gain knowledge about the complexity of the problem in their area of study. Working on their Bachelor theisi the students gain experience which they can apply in their future professional work in solving professional problems. In the preparation of the results for public presentation, defence and responding to the questions and comments of the committee, the student gains the necessary experience on how to present publicly the results of individual or team work.					
3. Course content/structure:					
It is formed individually in accordance with the needs and the field covered by the Bachelor Thesis topic. The student writes Bachelor Thesis in the written form in agreement with the supervisor and in accordance with the standards of the Faculty of Technical Sciences. The student prepares and defends the Bachelor Thesis publicly in agreement with the supervisor and in accordance with the standards. The student studies professional literature, professional and Bachelor thesis of the students dealing with similar topics, and conducts analysis with an objective to find out the solution to the specific problem defined in the Bachelor Thesis.					
4. Teaching methods:					
Bachelor Thesis supervisor sets the Bachelor Thesis problem and gives it to the student. The student is obliged to write the Bachelor Thesis within the given topic defined by the Bachelor Thesis problem. During writing the Bachelor Thesis, supervisor can give additional instructions to the student, suggest certain literature and additionally guide him with an objective to create a quality Bachelor Thesis. Within the theoretical part of the Bachelor Thesis, the student has consultations with the supervisor, and with other professors dealing with problems in the field of the Bachelor Thesis topic, if needed. Within the given topic, the student executes certain measurements, testing, counting, questionnaires and other research, if necessary. The student writes the Bachelor Thesis and gives the bounded examples to the board after gaining consent from the committee for assessment and defense. Defense of the Bachelor Thesis is public and the student is obliged to orally answer the questions					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Writing the final paper with theoretic basis		Yes	50.00	Final exam defence	Yes 50.00


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Table 5.2 Course specification

Course:		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



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Table 5.2 Course specification

Course:		Methods of Medical Image Forming and Analysis				
Course id: AU49						
Number of ECTS: 5						
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:
3		0	3		0	0
Precondition courses		None				
1. Educational goal:						
Students acquire the basic knowledge about medical image, its forming and analysis.						
2. Educational outcomes (acquired knowledge):						
The acquired knowledge is used in the future education and professional courses.						
3. Course content/structure:						
Fundamentals of static and dynamic image. Fundamentals of digital image (acquisition, color palette, resolution). Spatial domain techniques for image processing (arithmetical and logical operations, geometric transformations). Frequential content of an image. Image analysis and processing in frequency domain. Basic characteristics of medical image. Ultrasound recording A-mod, B-mod, TM-mod, C-mod, Doppler. Roentgen recording. Computer tomography. Nuclear magnetic resonance. Gamma camera, PET, SPECT. Medical image processing.						
4. Teaching methods:						
Lectures, computer practice, project tasks. Consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Computer excersise defence			Yes	40.00	Oral part of the exam	Yes 30.00
Test			Yes	10.00		
Test			Yes	10.00		
Test			Yes	10.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	K. Kirk Shung, M.B. Smith, B. Tsui		Principles of medical imaging		Academic Press	1992
2,	D. Popović, M. Popović		Biomedicinska instrumentacija i merenja		Nauka, Beograd	1997
3,	Gerard Blanchet and Maurice Charbit		Digital Signal and Image Processing using MATLAB			2006



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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 laboratorijske vežbe					2011


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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

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 XML 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	



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Table 5.2 Course specification

Course:		Information System Engineering				
Course id:	E2I41					
Number of ECTS:	5					
Teachers:	Luković S. Ivan, Mitrović M. Slavica					
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 gain general knowledge and specific skills for understanding the significance, essence, approaches and process of organizing business systems, as well as the application of basic managers' techniques in managing these systems. Adopting the methods of information system development and managing their development process. Application of CASE tools in the information system development process. Understanding a role of information systems in the organization system process improvement. Understanding CMMI as an approach to business performance improvements.						
2. Educational outcomes (acquired knowledge):						
Students gain general knowledge and specific skills to become competent for: the analysis of business system processes and its functional structure, as well as solving practical organizational problems during the work in business systems. The acquired knowledge and skills are directly applicable in the professional work in industry practice, as well as in complex projects of the information system development.						
3. Course content/structure:						
Development of the work process organization and business systems. Mission, goals and polices of business systems. Main flows, functional and organization structures of business systems. Human resources in business systems – characteristics, competences, motivation and team work. infrastructure resources of business systems – capacity and flexibility. Methods and techniques for management and improvement of work process and business performance. E-business and processes of business system management - planning, coordination and control of operations. Business plans. Project management. Basic characteristics and indicators of business system effectiveness. CMMI as a model of business process improvements. Introduction to information systems. Information system architecture. Information system development process. Life Cycle Methodology and information system process models. Strategic planning and BSP method. Structure system analysis.						
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	5.00	Oral part of the exam	Yes	30.00
Complex exercises		Yes	5.00			
Complex exercises		Yes	5.00			
Complex exercises		Yes	5.00			
Project		Yes	50.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Zelenović, M. D.	Tehnologija organizacije industrijskih sistema - preduzeća		FTN , Novi Sad		2005
2,	Byars, L. L.	Concepts of strategic management		Harper Collins Publishers, New York		1992
3,	Maksimović, M. R.	Složenost i fleksibilnost struktura industrijskih sistema		FTN , Novi Sad		2003
4,	Mihajlović Dragan	Informacioni sistemi i projektovanje baza podataka		FTN, Novi Sad		1998
5,	CMMI Product Team	CMMI for Development, Version 1.2		Carnegie Mellon Software Engineering Institute		2006
6,	Avison David, Fitzgerald Guy	Information Systems Development: Methodologies, Techniques & Tools		McGraw Hill, Education		2006



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Table 5.2 Course specification

Course:		Knowledge Based Systems						
Course id:	E2K42							
Number of ECTS:	5							
Teachers:		Konjović D. Zora, Kovačević D. Aleksandar						
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 applicative examples of knowledge based systems.								
2. Educational outcomes (acquired knowledge):								
Students gain knowledge which enables them to design and implement knowledge based systems and their application.								
3. Course content/structure:								
Structure of knowledge based systems. Representation of knowledge. Deduction and conclusion. Design of knowledge based systems. Implementation of knowledge based systems. Software tools for developing knowledge based systems. Application of knowledge based systems.								
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 excersise defence			Yes	45.00	Theoretical part of the exam		Yes	30.00
Computer exercise attendance			Yes	5.00				
Homework			Yes	5.00				
Homework			Yes	5.00				
Homework			Yes	5.00				
Lecture attendance			Yes	5.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Joseph Giarratano,Gary Riley		Expert Systems - Principles and Programming, 3rd ed.			PWS Publishing, Boston, MA		1998
2,	Peter Jackson		Introduction to Expert Systems, 3rd ed.			Addison-Wesley		1999
3,	Rajendra Akerkar, Priti Sajja		Knowledge-Based Systems			Jones & Bartlett Learning		2010

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Table 5.2 Course specification

Course:		Business Information Systems						
Course id:	RI53							
Number of ECTS:	5							
Teachers:		Milosavljević R. Gordana, Perišić R. 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 will be able to independently analyze and model business systems, model patterns of base and architecture of business system software, implement standards of visual and functional characteristics of business applications, document and present solutions in the business information domain. Students will be capable of team work related to engineering and reengineering business information systems relying on modern information technologies and design methods.								
2. Educational outcomes (acquired knowledge):								
Having successfully completed the course a student gains knowledge related to organization and functioning of business systems, analysis of business systems, modeling of business logic, modeling of business system data, modeling of business system software, implementation of subsystems as well as practical experience in team work on the realization of the selected business system/ subsystem. Having successfully completed the course a student is capable of independently designing a business information system in all phases of its lifecycle, application of standards in modeling and design of business information systems and standardization of visual and functional characteristics of business information system software.								
3. Course content/structure:								
Notion and types of business systems. Organizational structure and levels of organization in a business system. Modeling of business logic. Object modeling of business systems. Fundamentals of business informatics. Hierarchy of business information systems. Subsystems of business information systems. Business application standards. Methods of business information systems implementation. Business information system encapsulation. Management of project for developing business information system. Reengineering and reverse engineering of business information systems.								
4. Teaching methods:								
Knowledge evaluation is done continually during the semester in the form of inspection and work on a team project of the selected segment of business information system. The project includes all phases of the software lifecycle. The project is publicly defended in class.								
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,	G. Curtis, D. Cobham		Business Information Systems, 4th ed.			Prentice-Hall, London		2002
2,	D. Avison, G. Fitzgerald		Information Systems Development: Methodologies, Techniques, and Tools, 3rd ed.			McGraw-Hill, New York		2003



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Table 5.2 Course specification

Course:		Engineering of Computer Based Systems			
Course id:	RT43				
Number of ECTS:	5				
Teachers:		Kukolj D. Dragan, Pap I. Ištvan			
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 basics of modeling and engineering of computer based systems. They will be able to design using UML formal language, realize and verify systems with emphasis on mobile/service robots.					
2. Educational outcomes (acquired knowledge):					
Knowledge about the procedures and tools for modeling, design and realization of computer based systems.					
3. Course content/structure:					
Introduction. Fundamentals of designing complex control systems. Description of complex physical systems as objects of control in real time. Basic methods and techniques of analysis, modeling and development of computer based systems. Methods of identifying system components. Methods of simplification of complex systems. Architecture and components of computer based systems, distribution of activities by components, evaluation of performance and availability of the whole system. Development cycle of computer based systems. Modelling, engineering of technical demands and specification of computer based systems. Methods of integration and testing. Formal languages for system modeling from Petri networks to UML. Typical computer based systems (acquisition – control systems in industry and traffic – SCADA, mobile and service robots). Methods of intelligent control, predictions and diagnostics in computer based systems.					
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 tasks which comprise 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,	D. Kukolj	Projektovanja sistema zasnovanih na računarima, skripte			2005
2,	I. Bašičević, M. Dražić, V. Đurković, U. Grbić	Praktikum iz projektovanja sistema zasnovanih na računarima			2005



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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	



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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 Dournae		XML Security		McGraw-Hill	2002



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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



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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. Vlasisides	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



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

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



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	

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



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary international scientific trends and state of the professional field and is comparable with similar programmes at higher education institutions abroad, Computing and Control Engineering study programme is formed in such a way to be complete and comprehensive and provide students with the latest scientific and professional knowledge in this field. Computing and Control Engineering study programme is comparable and coordinated with:

1. <http://www.uc.pt/ects/cursos/curso/index.php?idioma=2&id=194&idF=&idP=&name=&md>,
2. <http://www.htwk-leipzig.de/english/fbeitenglish/eitbeng.htm>,
3. <http://www.eng.ucy.ac.cy/ECE/en/undergraduate/computerp.html>,
4. <http://www.it.uu.se/edu/course/kursstart/autumn>,
5. <http://www-ee.stanford.edu/EEughb07-08.pdf>,
6. <http://www.k.dendai.ac.jp/intro.html.en>

Faculty members, assistants and students have for the last two years been involved in the Campus European project. Campus Europae is an European student exchange project for studying abroad and comprises a network of 16 universities from EU, Serbia and Montenegro.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with social demands and its resources, enrolls to undergraduate academic studies of Computing and Control Engineering on budget funded and self funded studies a certain number of students defined each year by the special decision of the Educational and Scientific Council of the Faculty of Technical Sciences. The selection and enrolment of the applied candidates is based on their success during the previous education and entrance examination as defined by the Regulations of students enrolment on study programmes.

Students from other study programmes and persons who have completed studies can enroll into this study programme. The basis for making a decision about the enrolment of the students from other study programmes or persons who have completed studies is their valid documentation containing detailed information about the content activities and results of verification activities which a student has achieved at other study programme or completed studies. The committee for evaluation (formed by all department heads participating in the realization of the study programme) evaluates all the verified activities of the prospective candidates and accepts the number of credits achieved and on that basis determines the year of studies the candidate can enroll to. The previously passed exam activities can be accepted completely, partially (committee can require a suitable addition) or can be considered inadequate.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 08. Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students' accomplishments throughout the academic year and by passing the final examination.

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 within the programme is worth a certain number of ECTS credits which students obtain by successfully passing the course examination. The number of ECTS credits is based on the quantity and quality of the work students are required to submit during a certain course and on the Faculty of Technical Sciences' unique methodology for all study programmes. Students' success in mastering a certain course is constantly monitored during classes and is expressed in points. The maximum number of points obtained in a course is 100.

Students obtain points from a course through their work during classes, completion of the pre exam duties and taking the examination. The minimal number of points a student can obtain by fulfilling the course pre exam assignments during classes is 30, the maximum 70.

Each course at the study programme has a clear and transparent mode of obtaining points. The ways of obtaining points during the classes includes the number of points obtained on the basis of each individual activity during the classes or completing pre exam assignments and by passing the course examination.

The final success of students at a course is presented with a grade from 5 (fail) to 10 (excellent). The student's grade is based on the overall number of points obtained by fulfilling pre exam duties and taking the examination, and in accordance with the quality of acquired knowledge and skills.

For students to be able to take a course examination, they have to obtain at least 55% of the overall number of points through pre exam duties during the semester. Additional requirements for taking the examination are defined separately for every course.

Student advancement during the studies is defined by the Rule book on postgraduate academic studies.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 09. Teaching Staff

For the realization of the Computing and Control Engineering study programme, there is the faculty staff with necessary scientific, and professional qualifications.


The number of teachers is adequate to the needs of the study programme and depends on the number of subjects and the number of classes for those subjects. The total number of staff members is adequate for the total number of classes at the study programme, so that a teacher has an average of 180 classes of active classes (lectures, consultations, tutorials, practice classes, etc.) a year, i.e. 6 classes a week. Of the total number of teachers all 100% are employed full time.

The number of assistants is adequate for the needs of the study programme. The total number of assistants at the study programme is adequate to cover total number of classes so that the assistants have an average of 300 hours of active classes a year, i.e. 10 classes a week.

The scientific and professional qualifications of the teaching staff are adequate for the educational and scientific field and the level of their duties. Each teacher has at least five references in the scientific or professional field taught at the study programme.



The size of the group for lecture classes is up to 180 students, for practice classes up to 60 students and for laboratory practice up to 20 students.



None of the teacher has more than 12 hours of classes a week, and assistant no more than 15 hours of classes a week. All information regarding the teaching staff and assistants (CV, appointments, references) are available to public.



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Science, arts and professional qualifications

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



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



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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		5		
Total of SCI(SSCI) list papers :		10		
Current projects :		Domestic :	2	International : 0

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Science, arts and professional qualifications



Name and last name:		Atlagić S. Branislav	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		07.01.1985	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic career	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 Grid critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
9.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies
10.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Udžbenik "Logičko projektovanje računarskih sistema II", V.Kovačević, B.Atlagić, FTN 2007/2009.		
2.	M.Popovic, B.Atlagic, V.Kovacevic, "Case study: a maintenance practice used with real-time telecommunications software", Journal of Software Maintenance and Evolution, John Wiley and Sons Ltd, March-April issue, 2001.		
3.	D.Kukolj, M.Berko-Pušić, B.Atlagić, "Experimental Design of Supervisory Control Functions Based on Multilayer Perceptron", Artificial Intelligence for Engineering Design, Analysis and Manufacturing, 15(5) 2001, pp. 425-431.		



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

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



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

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

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



	UNIVERSITY OF NOVI SAD					
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
	Study Programme Accreditation					
	UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
Quotation total :			10			
Total of SCI(SSCI) list papers :			4			
Current projects :			Domestic :	1	International :	1

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

Name and last name:		Berić B. Andrijana	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		04.11.2004	
Scientific or art field:		German	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	German
Master's thesis	2009	Faculty of Philology - Beograd	German
Bachelor's thesis	2003	Faculty of Philosophy - Novi Sad	German
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F330	German Language – LSP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	F331	German Language – LSP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	NJ01Z	German Language – Elementary	(A00) Architecture, Undergraduate Academic Studies (AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, 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
4.	NJ02L	German Language – Pre-Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (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 (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
5.	NJ03Z	German Language – Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
6.	NJ04L	German Language – Upper-Intermediate	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	NJ05	German Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
8.	NJ06	German Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
9.	NJ1L	German Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
10.	NJT1	German Language for Engineers 1	(H00) Mechatronics, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
11.	SSIP22	German Language for Engineers 1	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies		
12.	NJ01Z	Nemački jezik - osnovni(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
13.	NJ02L	Nemački jezik - niži srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
14.	NJ03Z	Nemački jezik - srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
15.	NJ04L	Nemački jezik - napredni srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
16.	NJT1	Nemački jezik u tehnici 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
17.	NJ02L	German Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
18.	NJIIM	German for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	F508	German Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
20.	nja	German Language in Architecture	(AH0) Architecture, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Prevod: Inovacije i trendovi u proizvodnji alatnih mašina		
2.	Prevod: Inženjerstvo mehatroničnih sistema		
3.	Prevodi za Pro Elektro (u toku)		
4.	Prevod: Arbeitszenarien und Optimierung von Abläufen und Steuerung von selbstorganisierenden Bionic Assembly System in CIM Umgebung (u toku)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0



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



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

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

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies		
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		



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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIM	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 references (minimum 5, not more than 10)					
1.	Vesna Marković, English in Civil Engineering, FTN Izdavaštvo, Novi Sad, 2004.				
2.	Vesna Bogdanović, Ivana Mirović, Engleski jezik za grafičko inženjerstvo i dizajn 1, FTN Izdavaštvo, Novi Sad, 2007.				
3.	Ivana Mirović, Vesna Bogdanović, Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN Izdavaštvo, Novi Sad, 2008				
4.	Vesna Marković, English in Civil Engineering, drugo izdanje, FTN Izdavaštvo, Novi Sad, 2008.				
5.	University of Novi Sad, Faculty of Technical Sciences, prevele: Marina Katić, Vesna Marković, Ivana Mirović, Fakultet tehničkih nauka, Novi Sad, 2004.				
6.	Mr Vesna Bogdanović, Pačvork romani Alis Voker i Toni Morison, Beograd: Zadužbina Andrejević, 2009, ISBN 978-86-7244-743-9				
7.	Bogdanović Vesna, Mirović Ivana, Ličen Branislava, Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 445-454				
8.	Mirović Ivana, Bogdanović Vesna, Ličen Branislava, Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 170-176				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
9.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 329-332		
10.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 705-712		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 0 International : 0 </div>

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



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (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



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

Name and last name:		Borocki 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	
		01.11.2007	
Scientific or art field:		Production Systems, Organization and Management	
Academic career	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	1997	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	1993	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.	E2I41	Information System Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
2.	EOS33	Entrepreneurial management	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	II1041	Innovation and Entrepreneurship	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	IM1005	Entrepreneurship	(I20) Engineering Management, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	IM1021	Developmental Processes in Company	(I20) Engineering Management, Undergraduate Academic Studies
6.	IM1031	Enterprise's organization	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
7.	IM1045	Innovation in Enterprises	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1206	Innovation and Change Management	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1214	Management of Research and Development	(I20) Engineering Management, Undergraduate Academic Studies
10.	IM1216	Entrepreneurship in high technology	(I20) Engineering Management, Undergraduate Academic Studies
11.	IM1217	Entrepreneurship and New Business Venturing	(I20) Engineering Management, Undergraduate Academic Studies
12.	IM1218	Models of open innovations and corporate entrepreneurship	(I20) Engineering Management, Undergraduate Academic Studies
13.	IM1220	Entrepreneurial strategies	(I20) Engineering Management, Undergraduate Academic Studies
14.	IM1222	Managing intellectual capital of enterprise	(I20) Engineering Management, Undergraduate Academic Studies
15.	EE546	Entrepreneurship in Electrical Engineering	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
17.	IMDS61	Innovative business operations of enterprise	(I22) Engineering Management, Specialised Academic Studies



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	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
18.	IMDS65	Entrepreneurship and Organizational Development	(I22) Engineering Management, Specialised Academic Studies
19.	MBA412	Strategy of Technological Innovations	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
20.	MBA414	Integrated Business Processes	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
21.	MBA515	decision macing and change	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
22.	IIDS19	Organizational structures	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
23.	IM2217	Technology based Entrepreneurship	(I20) Engineering Management, Master Academic Studies
24.	IM2219	Strategic Entrepreneurship	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
25.	IM2220	Instruments of entrepreneurship and regional development	(I20) Engineering Management, Master Academic Studies
26.	IM2221	Innovation measurement	(I20) Engineering Management, Master Academic Studies
27.	IMDS70	Advanced topics on Innovation and Entrepreneurship	(I22) Engineering Management, Specialised Academic Studies
28.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
29.	IMDR12	Organizational structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
30.	IMDR61	Enterprise Innovative Business	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
31.	IMDR65	Entrepreneurship and Organizational Development	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
32.	IMDR70	Advanced topics on Innovation and Entrepreneurship	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Bojović, V., Borocki, J., Miroslavljev, M., Radovanović J., Rašković, V., Šenk, V., VODIČ ZA INOVATIVNE PREDUZETNIKE		
2.	Borocki, J., Cosic, I., Lalic, B., Maksimovic, R., Analysis of company development factors in manufacturing and service company: a strategic approach, Strojniski vestnik - Journal of Mechanical Engineering, 0039-2480, pp.55-68		
3.	Katic (Drezgic) I., Borocki J., Zekic S., Penezic N.: Entrepreneurship significance in restructuring process, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 902-907, ISSN 1840-1503		
4.	Raskovic, V., Senk, V., Borocki, J., Cosic, I.: PROMOTING ENTREPRENEURIAL THINKING IN WOULD-BE AND EXISTING HIGH-TECH COMPANIES IN SERBIA, Promoting Entrepreneurship by Universities, Hämeenlinna, Finland: FINPIN, HAMK University of Applied Sciences and Häme Convention Bureau, april, 2008, pp. 83- 90, ISBN 978-951-827-096-9.		
5.	Djakovic, V., Andjelic, G., Borocki, J., Performance of extreme value theory in emerging markets: an empirical treatment, African Journal of Business and Management, ISSN: 1993-8233		
6.	Vidicki P., Borocki J., Senk V., Raskovic V.: Innovation activities in enterprise: different models of measurement, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad: Faculty of Technical Science, September 14-16, 2011, pp. 473-478, ISBN 978-86-7892-341-8, UDK: 658.5		
7.	Borocki J., Senk V.: ANALYSIS OF INNOVATION FACTORS OF MICRO AND SMALL COMPANIES: A STRATEGIC APPROACH, 3. International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD, Novi Sad: Proceedings of the 3rd nternational Conference on Entrepreneurs, Innovation and Regional Development - ICEIRD 2010, Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Management, 27-29 Maj, 2010, pp. 61-68, ISBN 978-86-7892-250-3		
8.	Borocki, J., Maksimovic, R.: STRATEGIC PLANNING IN A FUNCTION OF ORGANIZATIONAL INNOVATIVENESS, International Conference on INDUSTRIAL SYSTEMS IS'08, Novi Sad: University of Novi Sad, Faculty of Technical Sciences, 02-03. October, 2008, pp. 415- 420, UDK: 658.5(082), ISBN 978-86-7892-135-3.		


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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
9.	Borocki J., Raskovic V., Senk V.: EDUCATING WOULD-BE AND EXISTING HIGH- TECH ENTREPRENEURS IN THE MARKET AND BUSINESS AREA , 1. International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD, Skoplje: Business Start-up Centre, University "Ss. Cyril and Methodius" - Skopje, 9-11 Maj, 2008, pp. 72-77, ISBN 978-9989-2636-4-4, UDK: 001.896(062),005(062),005.591(062),334.722(062)		
10.	Borocki J.: Doktorska disertacija Naziv: RAZVOJ MODELA STRATEGIJSKOG PLANIRANJA U FUNKCIJI INOVATIVNOSTI PREDUZEĆA, Novi Sad, 2009		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 2 International : 1 </div>

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



Name and last name:		Budinski-Petković M. Ljuba	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1989	
Scientific or art field:		Physics	
Academic career	Year	Institution	Field
Academic title election:	2009		Physics
PhD thesis	1998	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1996	Faculty of Physics - Beograd	Physics
Bachelor's thesis	1988	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.	E215	Physics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
3.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
4.	BMI93	Physics	(BM0) Biomedical Engineering, 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 (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	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.	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		
3.	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		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
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		
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.	Arsenović D., Vrhovac S., Jakšić Z., Budinski-Petković Lj., Belić A.: Simulation study of granular compaction dynamics under vertical tapping, Physical Review E, 2006, Vol. 74		
10.	Lj. Budinski-Petković and S. B. Vrhovac: Memory effects in vibrated granular systems: Response properties in the generalized random sequential adsorption model, The European Physical Journal E, 2005, Vol. 16, pp. 89-96, ISSN 1292-8941		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		75	
Total of SCI(SSCI) list papers :		30	
Current projects :	Domestic :	1	International : 1

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

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Computing and Control Engineering	
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 references (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

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



Name and last name:		Čongradac D. Velimir	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.06.1998	
Scientific or art field:		Automatic Control and System Engineering	
Academic carier	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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (minimum 5, not more than 10)			
1.	Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788		
2.	Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788		
3.	Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X		
4.	Čongradac V., Kulić F.: HVAC system optimization with CO2 concentration control using genetic algorithms, Energy and Buildings, 2009, ISSN 0378-7788		
5.	Čongradac V.: Control of the lighting system using a genetic algorithm, Thermal Science, 2012, Vol. 16, No 1, pp. 237-250, ISSN 0354-9836, UDK: 621		
6.	Čongradac V.: Business process management in sustainable property/asset management by using the totalobserver, Thermal Science, 2012, Vol. 16, No 1, pp. 269-279, ISSN 0354-9836, UDK: 621		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		6	
Current projects :		Domestic :	1 International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
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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 carier	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 (Indija), Undergraduate Professional Studies
4.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	ISIT3A	Metodologije i sistemi za upravljanje IT resursima	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	ISIT48	Tehnologije i sistemi za podršku korisnicima	(SII) Software and Information Technologies (Indija), 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


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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (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

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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	Study Programme Accreditation			
	UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering			
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
16.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies	
17.	D0M17	Combinatorics	(OM1) Mathematics in Engineering, Doctoral Academic Studies	
18.	D0M20	Graph Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies	
19.	D0M34	Actuarial Mathematics	(OM1) Mathematics in Engineering, Doctoral Academic Studies	
20.	DOM31	Combinatorial Matrix Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies	
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	R. Doroslovački, R. Tošić and I. Stojmenović: Generating and counting triangular system, BIT: 27(1987) 18-24, Kobenhavn, R 54			
2.	R. Doroslovački, R. Tošić i J. Gutman: Topological properties of benzenoid systems, XXXVIII, the boundary code, Match in mathematical chemistry (19) (219-228) Max- Plank-Institut fur Strahlenchemije, Mulheim (1986)			
3.	Rade Doroslovački: Binary Sequences without 01...10, Matematički vesnik, Mathematical Society of Serbia, 46 (1994), 93-98.			
4.	Rade Doroslovački: On binary n-words with forbidden 4-subwords, (1997/01) Novi Sad Journal of Mathematics.			
5.	R. Doroslovački, J. Pantović, G.Vojvodić: Note on Intersection of Maximal Clones, (1998/02) Novi Sad, Journal of Mathematics.			
6.	R. Doroslovački, J. Pantović, G. Vojvodić: Classification of Maps by their Membership in Maximal Clones that contain Minimum and Complement, Matematički vesnik,, Mathematical Society of Serbia, 51, (1999), 21-28			
7.	Rade Doroslovački, Jovanka Pantović and Gradimir Vojvodić: One Interval in the Lattice of Partial Hyperclones, Czechoslovak Mathematical Journal, 55 (130),2005, 719-724, (R52)			
8.	O. Bodroža-Pantić, R. Doroslovački, K. Doroslovački, AN ELEMENTARY PROOF OF A THEOREM CONCERNING THE DIVISION OF A REGION INTO TWO," in Rocky Mountain Journal of Mathematics, Vol. 37, No.5, 2007, R 52			
9.	O. Bodroža-Pantić, R. Doroslovački, The Gutman formulas for algebraic structure count, Journal of Mathematical Chemistrz Vol.35,No.2, Februar 2004, R 51.			
10.	Ratko Tošić, Gradimir Vojvodić, Dragan Mašulović, Rade Doroslovački, Jovanka Rosić: Two examples of relative completeness, Multiple Valued Logic, An International Journal (Journal of Multiple-Valued Logic and Soft Computing), (1996), Vol. 2, pp. 67-78.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :			60	
Total of SCI(SSCI) list papers :			5	
Current projects :			Domestic :	0
			International :	0

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



Name and last name:		Đurić M. Nikola	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1997	
Scientific or art field:		Theoretical Electrotechnics	
Academic career	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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Đurić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499		
2.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362		
3.	Đurić N., Kavečan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference on Advances in Future Internet - AFIN, Rim, 19-24 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

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



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

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
14.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies		
15.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies		
16.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies		
17.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies		
18.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies		
19.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
20.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies		
21.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
22.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
23.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
24.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221				
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883				
3.	Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215				
4.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836				
5.	Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215				
6.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445				
7.	Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X				
8.	Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X				
9.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456				
10.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		1			
Total of SCI(SSCI) list papers :		9			
Current projects :		Domestic :	3	International :	0



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



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

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

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies		
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies		
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies		
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
26.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
27.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
28.	ISIT01	English Language 1	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>			
Representative references (minimum 5, not more than 10)				
8.	Gak Dragana, Questionnaire - an Instrument for Collecting Valuable Data from Teachers of Business English Courses, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012			
9.	Mirović Ivana, Gak Dragana, Trust Me I'm an Engineer, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :				
Total of SCI(SSCI) list papers :				
Current projects :	Domestic :		International :	

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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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 carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
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	(SI1) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SI1) Software and Information Technologies (Indija), 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 references (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		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (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 and 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 upravljanje 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 :	<div style="display: flex; justify-content: space-between;"> 2 International : 0 </div>



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

Name and last name:		Govedarica J. Miro	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 22.02.1994	
Scientific or art field:		Geodesy and Geomatics Engineering	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Geodesy and Geomatics Engineering
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Geoinformatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1987	Faculty of Civil Engineering - Sarajevo	Geodesy
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.	E241	Geospatial Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	F114	Graphic applications	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
10.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
14.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
15.	GI209	Photogrammetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
16.	GI406A	Fundamentals of Remote Sensing and Image Processing	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
17.	ZC028	Geospatial technologies and systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	GI501	Geoportals and Geospatial Services	(GI0) Geodesy and Geomatics, Master Academic Studies
19.	GI502	Location Based Services	(GI0) Geodesy and Geomatics, Master Academic Studies
20.	GI504	Advanced Techniques of Laser Scanning	(GI0) Geodesy and Geomatics, Master Academic Studies
21.	GI517	Digital Photogrammetry	(GI0) Geodesy and Geomatics, Master Academic Studies
22.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
23.	GIAU05	Geoportals and Geoservices	(E20) Computing and Control Engineering, Master Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
24.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies		
25.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies		
26.	GI534	Service oriented architecture in GIS	(GI0) Geodesy and Geomatics, Master Academic Studies		
27.	GI536	Spatial and temporal databases	(GI0) Geodesy and Geomatics, Master Academic Studies		
28.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies		
29.	GI700	Geospatial data visualization	(GI0) Geodesy and Geomatics, Master Academic Studies		
30.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies		
31.	GIAU03	Remote Sensing and Computer Image Processing	(E20) Computing and Control Engineering, Master Academic Studies		
32.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies		
33.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
34.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
35.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
36.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
37.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
38.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
39.	SDGI1F	Selected topics in photogrammetry	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
40.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
41.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
42.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
43.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
44.	DAU011	Selected Chapters in Geographic Information Systems and Technologies	(E20) Computing and Control Engineering, Doctoral Academic Studies		
45.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
46.	DGI003	Selected Chapters in Photogrammetry and Remote Sensing	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
47.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
48.	DGI008	Selected Chapters in Laser Scanning	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
49.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
50.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
51.	DGI013	Selected Chapters in Spatial Data Infrastructure and Standardization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
52.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Ristić, A., Petrovački, D., Govedarica, M.: 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				
2.	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.				
3.	Govedarica Miro, Borisov Mirko, THE ANALYSIS OF DATA QUALITY OF TOPOGRAPHIC MAPS, JOURNAL GEODETSKI VESTNIK (IF 2010 0.215) ISSN 0351-0271				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>			
Representative references (minimum 5, not more than 10)				
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.	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)			
6.	Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov, Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88); 1; (2011) (IF 2010 0.038)			
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171			
8.	Tosa Ninkov, Miro Govedarica, Milan Trifkovic, One Method of Renewal of Stereographics Survey Data in Coka Municipality Geodetski list : glasilo Hrvatskoga geodetskog društva 66(89) (2012), 4;			
9.	Luković I, Mogin P, Govedarica M, Ristić S, "The Structure of A Subschema and Its XML Specification", Journal of Information and Organizational Sciences (JIOS), Varaždin, Croatia, ISSN: 0351-1804, Vol. 26, No. 1-2, 2002, pp. 69-85..			
10.	Govedarica M, Miladinović M: Informacioni sistema katastarsa nepokretnosti – Terrasoft, Geodetska služba, 2002, Vol. XXXI, No. 92, str. 16- 27, ISSN 0350-7971			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :			8	
Total of SCI(SSCI) list papers :			6	
Current projects :			Domestic :	<div style="display: flex; justify-content: space-between;"> 5 International : 1 </div>



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

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



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	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
14.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
17.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
18.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
23.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
24.	D0M52	Random Sets	(OM1) Mathematics in Engineering, Doctoral Academic Studies
25.	D0M53	Statistical Processing of Fuzzy Data	(OM1) Mathematics in Engineering, Doctoral Academic Studies
26.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
27.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Ralević, N.M., Nedović, Lj., Grbić, T., : "The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral", Fuzzy sets and systems, 2005, No.155, 89-101		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (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 :	International :
		2	0

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



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



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

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



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


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

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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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 career	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 (Indija), Undergraduate Professional Studies
4.	ISIT32	Technologies and platforms for digital contents and documents management	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Indija), 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

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 managment	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (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 library 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

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



Name and last name:		Ivetić V. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 22.10.1990	
Scientific or art field:		Applied Computer Science and Informatics	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1990	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.	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
2.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	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
4.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
5.	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
6.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	E2528	Computer game development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies



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List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
9.	ESI035	Computer graphic algorithms for smart grid systems	(ESO) Power Software Engineering, Master Academic Studies
10.	ESI036	Visualization techniques in power systems	(ESO) Power Software Engineering, Master Academic Studies
11.	DRNI09	Selected Topics in Human Centered Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
12.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DRNI15	Selected Topics in Advanced Computer Graphics	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
15.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Dinu Dragan, Dragan Ivetic, "Request Redirection Paradigm in Medical Image Archive Implementation", Computer methods and programs in biomedicine, Elsevier, Vol. 107, No. 2, p.111-121, ISSN 0169-2607, Aug 2012		
2.	Dragan Ivetic, Dinu Dragan, "Medical Image on the go!", Journal of Medical Systems, Springer, Vol. 35, No. 4, pp. 499-516, ISSN 0148-5598, August 2011.		
3.	Dragan Ivetic, Srdjan Mihic, Branko Markoski, "Augmented AVI video file for road surveying", Computers and Electrical Engineering, Elsevier, Vol. 36, No. 1, pp. 169-179, ISSN 0045-7906, January 2010.		
4.	Dinu Dragan, Dragan Ivetic, "Architectures of DICOM based PACS for JPEG2000 Medical Image Streaming", Computer Science and Information Systems Journal (ComSIS), vol. 6(1), ISSN: 1820-0214, pp. 185-203, ComSIS Consortium, Serbia, June 2009.		
5.	Dragan Ivetic, Dusan Malbaski, "A dichotomous software life-cycle model", Journal of Applied Systems Studies, Nikitas. A. Assimakopoulos, Ed., Cambridge International Science Publishing, Cambridge, England, vol. 2, No. 2, 2001		
6.	Dinu Dragan, Dragan Ivetic, "A Comprehensive Quality Evaluation System for PACS", Ubiquitous Computing and Communication Journal, Special Issue on ICIT 2009 Conference - Bioinformatics and Image, Vol. 4(3), ISSN: 1992-8424, pp. 642-650, UBICC Publisher, July 2009.		
7.	Veljko Petrovic, Dragan Ivetic, "Education and out of the box thinking – linearization of Graham's scan algorithm complexity as fruit of education policy", Ubiquitous Computing and Communications Journal, Special Issue on ICIT 2011 conference, ISSN: 1992-8424, pp. 43-51, UBICC Publisher, 2011.		
8.	Dusan Malbaski, Dragan Ivetic, "Some notes on the formal definition of streams", Byron Papathanassiou, Ed., Yugoslav Journal of Operations Research, vol. 6, no. 2, 1996., 277-284.		
9.	Ivetic Dragan, Dinu Dragan, "JPEG2000 Aims To Make Medical Image Ubiquitous", Egyptian Computer Science Journal, Vol. 31, No. 5, pp. 1-13, ISSN 1110-2586, Sept. 2009.		
10.	Dragan D., Ivetic D.: Chapter 28: Tools for Ubiquitous PACS System, in "Proceedings of the International Conference on Human-centric Computing 2011 and Embedded Multimedia Computing 2011", Lecture Notes in Electrical Engineering, J.J. Park et al. (eds.), Berlin, Springer, 2011, str. 297-308, ISBN 978-94-007-2104-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		55	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	2 International : 0

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



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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (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 Jelcic, 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. Jelcic, 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

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



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
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 references (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 :	International :
		1	1

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



Name and last name:		Jović Đ. Miomira	
Academic title:		Foreign Language Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Sciences - Novi Sad	
		01.09.2001	
Scientific or art field:		German	
Academic carier	Year	Institution	Field
Academic title election:	2005		German
Bachelor's thesis	1973		German
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F331	German Language – LSP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	NJ01Z	German Language – Elementary	(A00) Architecture, Undergraduate Academic Studies (AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, 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
3.	NJ02L	German Language – Pre-Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (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 (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
4.	NJ05	German Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	NJ06	German Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
6.	NJ1L	German Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SSIP22	German Language for Engineers 1	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
8.	NJ01Z	Nemački jezik - osnovni(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	NJ02L	Nemački jezik - niži srednji(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	F508	German Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
11.	nja	German Language in Architecture	(AH0) Architecture, Master Academic Studies
Representative references (minimum 5, not more than 10)			
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

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



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

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

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



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



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

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

Name and last name:		Konjović D. Zora	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.10.1981	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1985	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1973	Faculty of Sciences - Novi Sad	Mathematics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E231	Numerical Algorithms and Numerical Software	(E20) Computing and Control Engineering, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E236A	Computational Intelligence Fundamentals	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E2K42	Knowledge Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	BMI101	Introduction to Medical Informatics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>				
Representative references (minimum 5, not more than 10)					
10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		0			
Total of SCI(SSCI) list papers :		15			
Current projects :		Domestic :	2	International :	1

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



Name and last name:		Kostić Z. Marko	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.10.1999	
Scientific or art field:		Mathematics	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2001	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS07	Mathematics 2	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F101	Mathematics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	G1107	Mathematical Analysis 1	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	ISIT06	Matematika 2	(SI1) Software and Information Technologies (Indija), Undergraduate Professional Studies
10.	OM501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	DOM01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
16.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
17.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Kostić, Marko, Distribution cosine functions. Taiwanese J. Math. 10 (2006), no. 3, 739--775.				
2.	Kostić Marko, On analytic integrated semigroups. Novi Sad J. Math. 35 (2005), no. 1, 127--135.				
3.	Kostić Marko, Convolved $\mathcal{C}\mathcal{S}$ -cosine functions and convolved $\mathcal{C}\mathcal{S}$ -semigroups. Bull. Cl. Sci. Math. Nat. Sci. Math. No. 28 (2003), 75--92.				
4.	Kostić Marko, On a class of quasi-distribution semigroups, Novi Sad J. Math 36 (2), 137-152				
5.	M. Kostić, P. J. Miana, Relations between distribution cosine functions and almost-distribution cosine functions, Taiwanese Journal of Mathematics 11 (2007), 531--543.				
6.	M. Kostić, S. Pilipović, Global convoluted semigroups, accepted in Math. Nachr.				
7.	M. Kostić, S. Pilipović: Convolved C-cosine functions and semigroups. Relations with ultradistribution and hyperfunction sines, accepted in J. Math. Anal. Appl.				
8.	M. Kostić: Complex powers of operators, accepted in Publications De l'Institut Mathématique				
9.	M. Kostić: C-Distribution semigroups, Studia Math. 185 (2008), 201--217.				
10.	M. Kostić: Convolved operator families and abstract Cauchy problems, accepted in Kragujevac Journal of Mathematics				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			32		
Total of SCI(SSCI) list papers :			15		
Current projects :			Domestic :	1	International : 0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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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 career	Year	Institution	Field
Academic title election:	1990	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Mathematics - Beograd	Mathematical Sciences
Magister thesis	1975	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1971	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	OM501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
7.	OML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
8.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
9.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	GS012	Selected Chapters in Mathematics	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
12.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
13.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	I.Kovačević, On alfa-Hausdorff subsets, almost closed mappings and almost upper semicontinuous decomposition, Indian Jurnal of Pure and Applied mathematics 20 (4) 1989., 334-340.				
2.	N. Adžić, I. Kovačević, V. Marić, V. Ungar, Matematička analiza 2, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 1996., 1-299.				
3.	I. Kovačević, N. Ralević, Funkcionalna analiza,FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje)2004., 1-203.				
4.	I. Kovačević, N. Ralević, B. Carić, V. Marić, M. Novković, S. Medić, Matematička analiza 1- uvodni pojmovi i granični procesi ,(Ponovljeno i dopunjeno izdanje), FTN (Edicija tehničke nauke-udžbenici) Novi Sad, 2012,1-155.				
5.	I.Kovačević, V.Marić, M.Novković, B.Carić, N.Ralević,S.Medić, Matematička analiza 1 - diferencijalni i integralni račun, obične diferencijalne jednačine (Ponovljeno i dopunjeno izdanje),FTN (Edicija tehničke nauke-udžbenici), Novi Sad,2012., 1-280.				
6.	I. Kovačević, Algebra, Naučna knjiga, Beograd, 1990., 1-116.				
7.	I.Kovačević, N.Ralević, V.MarićV.Čurić, Integrali funkcija više promenljivih i teorija polja, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 2012, 1-191				
8.	I.Kovačević, Some properties of Mn subsets and almost closed mappings, Indian J.pure appl. Math., 27(9), 1996., 875-881.				
9.	I.Kovačević, On almost closed mapping, paracompactness and partial equivalence relatuions, Indian Journal of Pure and Applied mathematics,25(9), 1994., 949-954.				
10.	Kiurski J., Oros I., Ralević N., Kovačević I., Adamović (Majkić) S., Krstić J., Čomić L.: Cluster and principal component analysis in the assessment of fountain solution quality, Carpathian Journal of Earth and Environmental Sciences, 2013, Vol. 8, No 1, pp. 19-23, ISSN 1842-4090				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			28		
Total of SCI(SSCI) list papers :			7		
Current projects :			Domestic :	3	International : 2

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



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

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (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

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



Name and last name:		Kovačević 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 15.07.2007	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Informatics
Bachelor's thesis	2003	Faculty of 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.	E2K42	Knowledge Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
3.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	SES203	Machine Learning	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2503	Data Mining and Data Analysis Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	E2514	Biologically inspired computing	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	E2524	Text Mining	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	E2527	Business Intelligence	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM005	Decision Support Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI14	Selected Chapters in Machine Learning	(E20) Computing and Control Engineering, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Pretraživanje zvučnih zapisa		
2.	Adaptivni sistem za pretraživanje zvučnih zapisa		
3.	Kovačević, A., Milosavljević, B. "The Use of R-Trees for Content-Based Audio Retrieval". In Proceedings of the 13th Scientific Conference on Industrial Systems, Herceg Novi, 2005. M63		
4.	Kovačević A., Milosavljević, B., Konjović, Z. "Tjuniranje prostora osobina za pretraživanje zvučnih zapisa". Zbornik radova YUInfo 2006, Kopaonik, Srbija, 2006. ISBN: 86-85525-01-2. M63		
5.	Kovačević, A., Milosavljević, B., Konjović, Z., and Vidaković, M. 2010. "Adaptive content-based music retrieval system". Multimedia Tools and Applications, 47(3) (May. 2010), pp. 525-544. doi: http://dx.doi.org/10.1007/s11042-009-0336-2 . ISSN: 1380-7501 (Print), 1573-7721 (Online). M23.		
6.	Kovačević, A., Ivanović D., Milosavljević B., Konjović Z., Surla D., 2011. "Automatic extraction of metadata from scientific publications for CRIS systems" Program: Electronic library and information systems, 45(4), pp. 376 - 396. doi: http://dx.doi.org/10.1108/00330331111182094 . ISSN: 0033-0337. M23		
7.	Aleksandar Kovačević, Automatizovano izdvajanje semantike iz naučnih članaka u oblasti informatike, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2011.		
8.	Majstorović D, Pele Z, Kovačević A, Čelanović N. "Computer Based Emulation of Power Electronics Hardware", In Proceedings of the First IEEE Eastern European Conference on the Engineering of Computer Based Systems, Novi Sad, Serbia, pages 56-64, 2009. ISBN: 978-0-7695-3759-7. M33		
9.	Slivka, J. Kovačević, A., Konjović, Z., 2010. "Co-training based algorithm for datasets without the natural feature split." In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 279-284, 2010. ISBN: 978-1-4244-7395-3. M33		
10.	Miljković, D., Gajić, Lj., Kovačević, A., Konjović, Z., 2010. The use of data mining for basketball matches outcomes prediction. In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 2010. 309-312. ISBN: 978-1-4244-7395-3. M33.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		12	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	0

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



Name and last name:		Kukolj D. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.05.1983	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic career	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	1993	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	1982	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.	RT43	Engineering of Computer Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
2.	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
3.	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
4.	DRT09	Computational Intelligence Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	D. Kukolj, E. Levi, Identification of Complex Systems Based on Neural and Takagi-Sugeno Fuzzy Model, IEEE SMC-part B, Vol. 34, No. 1, February 2004, pp.272-282.		
2.	D. Kukolj, S. Kuzmanovic, E. Levi, Design of a Near-Optimal, Wide-Range Fuzzy Logic Controller, Fuzzy Sets & Systems, Vol. 120, No. 1, May 2001, pp. 17-34.		
3.	D. Kukolj, S. Kuzmanovic, E. Levi, Design of a PID-Like Dual Fuzzy Logic Controller, IFAC Engineering Applications of Artificial Intelligence, Vol. 14, no. 6, 2001, pp. 785-803.		
4.	D. Kukolj, B. Atlagić, M. Petrov, Unlabeled data clustering using a re-organizing neural network, Cybernetics and Systems, An Int. Journal, Vol. 37, No. 7, 2006, pp. 779-790.		
5.	D. Kukolj, Design of Supervisory Control Functions Based on Feedforward Neural Networks, Cybernetics & Systems: An International Journal, Vol. 31, No. 7, 2000, pp. 749-761.		
6.	D. Kukolj, D. Popovic, M. Borota, Applied Unsupervised Learning in Model Reduction of Linear Dynamic Systems, Computers & Mathematics with Applications, Vol.33, No. 3, 1997, pp.95-103.		
7.	D. Kukolj, ALGORITMI MREŽNOG PROGRAMIRANJA, Univerzitet u Novom Sadu, Novi Sad, 2001.		
8.	D. Kukolj, F. Kulić, PROJEKTOVANJE SISTEMA AUTOMATSKOG UPRAVLJANJA U PROSTORU STANJA, Univerzitet u Novom Sadu, Novi Sad, 1995.		
9.	Kukolj D., Bengin V., Kulic F., OSNOVI KLASICNE TEORIJE AUTOMATSKOG UPRAVLJANJA kroz resene probleme, Somel, Sombor, 1995		
10.	D. Kukolj, Sistemi zasnovani na računarskoj inteligenciji, monografija 26, FTN, Novi Sad, 2007.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		50	
Total of SCI(SSCI) list papers :		15	
Current projects :		Domestic :	1
		International :	1


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

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



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
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 (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies		
21.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
22.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Dragan Kukolj, Vesna Bengin, Filip Kulić: Osnovi klasične teorije automatskog upravljanja kroz rešene probleme, Sombor, Somel, 1995. 241str., UDK: 681.5(075.8),				
2.	Dragan Kukolj, Filip Kulić: Projektovanje sistema automatskog upravljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka, 1995. 232str., UDK: 681.5(075.8),				
3.	D.Kukolj, F.Kulić, E.Levi: Design Of The Speed Controller For Sensorless Electric Drives Based On AI Techniques: A Comparative Study, Artificial Intelligence in Engineering, 2000, Vol. 14, str. 165- 174				
4.	D.Kukolj, S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, Wide Range Fuzzy Logic Controller, Fuzzy Sets and Systems, 2001, Vol. 120, No. 1, str. 17- 34				
5.	D.Kukolj, F.Kulić, D.Popović, Z.Gorečan: Determining Topological Changes and Critical Load Levels of a Power System by Means of Artificial Neural Network, Electric Machines and Power Systems, 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.				
6.	D.Kukolj, D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, European Transactions on Electrical Power (ETEP), 1998, Vol. 8, No. 3, str. 207- 212, ISSN 1430-144X.				
7.	D.Popović, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Stability Margins Using Artificial Neural Networks with a Reduced Input Set, IEE Proc. -Gener. Transm. Distrib, 1998, Vol. 145, No. 4, str. 355- 362, ISSN 1350-2360.				

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

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

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

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

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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (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



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



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

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

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



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	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
27.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
28.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
30.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
31.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
33.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
35.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
36.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
38.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
39.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
40.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
45.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	"Formal and Aesthetic Aspects of Nadine Gordimer's Short Story", Romanian Journal of English Studies, University of the West Timisoara, br. 7, 2010., str.191-198.		
2.	"Summarization Skills of Engineering Students' Reading in a Second Language", Jezik struke, izazovi i perspektive, Univerzitet u Beogradu, 2011., str. 291-299.		
3.	"On Race, Ethnicity and Gender in Nadine Gordimer's 'Jump and Other Stories", Selected Papers in Literature and Culture from the 9th HUSSE Conference, Pecs, 2010., str. 285-290.		
4.	"Living in the Interregnum: Nadine Gordimer's 'Conservationist', 'Burger's Daughter' and 'July's People'", B.A.S. Conference on British and American Studies, University of the West Timisoara, br.XXI, maj 2011., str. 28.		
5.	"Preispitivanje istorijskog konteksta u Barnsovom romanu Floberov papagaj", Sveske, br.100, Pančevo, jun 2011., str. 69-77.		
6.	"Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str.445-454.		
7.	"Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str. 170-176.		
8.	Zajednica i pojedinac u delima Toni Morison u romanima Najplavlje oko, Sula, Voljena i Katreno luče, 2009.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

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



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
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 (Indija), 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.	OML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies		
15.	OML507	Logic in computer science	(OM1) Mathematics in Engineering, Master Academic Studies		
16.	IA022	Numerical Optimization	(F20) Engineering Animation, Master Academic Studies		
Representative references (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, Nataša Sladoje, and Tibor Lukic, Feature Based Defuzzification 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, Nataša Sladoje, and Joakim Lindblad, Deterministic Defuzzification based on Spectral Projected Gradient Optimization, Springer-Verlag, Volume 5096 of Lecture Notes in Computer Science, pp. 476-485, 2008.				
4.	Zorana Lužanin 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, Nebojsa 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 Nebojsa 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 Nataša Sladoje, Regularized Image Denoising 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 Combinatorial Image Analysis - 15th International Workshop (IWCI), 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

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



Name and last name:		Luković S. Ivan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 18.05.1991	
Scientific or art field:		Applied Computer Science and Informatics	
Academic career	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


		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
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 (E50) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
14.	E2518	Software Based Business Process Modeling	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
15.	E2530	Domain Specific Modeling and Languages	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies		
16.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies		
17.	DRNI04	Selected Topics in Database Management	(E20) Computing and Control Engineering, Doctoral Academic Studies		
18.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies		
19.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Luković I., Ivančević V., Čeliković M., Aleksić S.: DSLs in Action with Model Based Approaches to Information System Development, in the book: Formal and Practical Aspects of Domain-Specific Languages: Recent Developments; Chapter 17., IGI Global, USA, 2013, pp. 502-532, ISBN 978-1-4666-2092-6.				
2.	Luković I.: From the Synthesis Algorithm to the Model Driven Transformations in Database Design, 10. International Scientific Conference on Informatics, Herlany: Slovak Society for Applied Cybernetics and Informatics and Technical University of Košice - Faculty of Electrical Engineering and Informatics, 23-25 Novembar, 2009, pp. 9-18, ISBN 978-80-8086-126-1. (Invited paper).				
3.	Luković I.: Application of Information System Development Tools and Methods - Some Experiences from Industry and Research Projects in Serbia, 9. International Business Informatics Conference – Symposium on Business Informatics in Central and Eastern Europe, Vienna: Austrian Computer Society and University of Vienna, 25-27 Februar, 2009, pp. 119-128, ISBN 978-3-85403-242-7. (Invited paper).				
4.	Luković I.: An Approach to Specification and Generation of Software Systems using Form Types, 2nd Conference on Compilers, Related Technologies and Applications (CoRTA 2008), July 11, 2008, Braganca, Portugal, Proceedings, Polytechnic Institute of Braganca, Portugal, ISBN: 978-972-745-096-1, pp. 4. (Invited talk).				
5.	Mogin P, Luković I, Govedarica M: Principi projektovanja baza podataka, II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, 2004, ISBN: 86-80249-81-5, 700 str.				
6.	Mogin P, Luković I: Principi baza podataka, Univerzitet u Novom Sadu, Fakultet tehničkih nauka i MP "Stylos", Novi Sad, 1996, 350 str.				
7.	Obrenović N., Aleksić S., Popović A., Luković I.: Transformations of Check Constraint PIM Specifications, COMPUTING AND INFORMATICS, SLOVAK ACADEMY OF SCIENCES, ISSN 1335-9150, 2012, Vol. 31, No. 5, pp. 1045-1079.				
8.	Luković I, Mogin P, 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 Systems, ISSN 1820-0214, 2012, Vol. 9, No 3, pp. 1075-1103.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			22		
Total of SCI(SSCI) list papers :			5		
Current projects :			Domestic :	1	International : 0

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



Name and last name:		Malbaša D. Veljko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.11.1979	
Scientific or art field:		Electronics	
Academic career	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 Hardware Design and Verification	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE401S	Design of Application Specific Integrated Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	SI012	Microprocessor Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	SI025	Selected Topics in Computer Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	EM508	Design and Development of Embedded Software	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	DE100	Selected Chapters in Formal Methods for Hardware Design and Verification	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
17.	DE401	ASIC Design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			

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

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



Name and last name:		Malbaški T. Dušan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 15.06.1975	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1980	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E131	Object-Oriented Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E214	Programming Languages and Data Structures	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
5.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	DRNI01	Selected Topics in Computer Programming	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	(koautori D.Obradović i V.Malbaša): "Analysis and Practical Considerations of an Improved Multimicroprocessor System", časopis Microprocessing and Microprogramming, North-Holland, no. 16, 1985 (naziv promenjen u Journal of Systems Architecture).		
2.	(koautori J.Rekecki i dr.): "Automatic Design of the Technological Process for NC Lathes by the Use of SAPOR-S System", International Journal on Production Research, Vol. 21 No. 2, 1983.		
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503		
4.	(koautor D.Ivetić): "A Dichotomous Software Life Cycle Model", Journal of Applied Systems Studies, Cambridge International Science Publishing, Cambridge, England, vol. 2, No 2, 2001		
5.	(koautori D.Obradović i V.Malbaša): "Multimicroprocessor Performance VS Shared Bus Efficiency", ACM European Regional Conference, Florence, Italy, 1985.<eng>		
6.	(koautor D.Ivetić): "Some Notes on the Formal Definition of Streams", YUJOR, Vol.6, No. 2, 1996.		
7.	(koautori M.Khlaif, D.Obradović): "A New Approach to Soft System Methodology", Automatika, Vol 30. (1989), No. 1-2.		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	(koautor D.Obradović): "CLAS-a Formal Aid to Data Elements Identification", časopis YUJOR, vol. 4, no. 2, 1994.		
9.	(koautor D. Ivetić) "UML? HCI = Essential Modeling", IEEE 7th INES Conference, 4-6 March, Assuit-Luxor, Egypt, 2003.		
10.	(koautori B. Markoski, P. Hotomski): " Symbolic Execution in Program Testing", International ZEMAK Symposium, Struga, Macedonia, 2002		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	0
		International :	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
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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 (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
3.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE0017	Software Development Metodologies	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



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


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

Name and last name:		Mihailović P. Biljana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.03.1999	
Scientific or art field:		Mathematics	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2009	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2003	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	EOS07	Mathematics 2	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
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 (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	E. Pap, B. Mihailović: A representation 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.				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
Representative references (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

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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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 career	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 (G10) 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	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI205	Information Systems and Databases	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
9.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
11.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
12.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mihajlović D., Informacioni sistemi i projektovanje baza podataka, FTN Novi Sad, 1998		
2.	Mihajlović D, Obradović D, Jedan algoritam sažimanja srpskohrvatskih reči, Informatika br 4, pp45-47, 1982		
3.	Mihajlović D, Obradović D, An evalution of textual documents indexing methods, Yujor, 1992, pp107-112.		
4.	Mihajlović D i ostali, Softversko rešenje za farmaceutske informacioni sistem, Diskobolos 97.		
5.	Mihajlović D, Kecman Ž, Farmaceutski informacioni sistem, I kongres farmaceuta Jugoslavije, Vrnjačka Banja, 1994		
6.	Mihajlović D, Izbor parova leksičkih jedinica iz poznatog rečnika za automatizovano postavljanje relacija u tezaursu		
7.	Mihajlović D, Odredjivanje vrsta reči iz srpskohrvatskog jezika primenom računara, Informatica, br 1, pp52-54, 1988		
8.	Perišić B, Obradović D, Mihajlović D, Standardizacija metodologije projektovanja informacionih sistema software-inženjerski aspekti, Standardizacija i kvalitet u informacionim tehnologijama, beograd 1995.		
9.	Mihajlović D, Nićin V, Prilog razvoju automastke obrade informacija u INDOK-delatnosti u organima uprave, Dani informatike 80, pp73-83, Novi Sad		
10.	Obradović D, Perišić B, Mihajlović D, Konjović Z, Stanje i trendovi u projektovanju informacionih sistema, IPME, Beograd, 1992		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

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



Name and last name:		Milosavljević R. Gordana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.1995	
Scientific or art field:		Applied Computer Science and Informatics	
Academic carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2010		Computer Science
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1995	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.	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
2.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	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
4.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT12	Osnove informacionih sistema	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
9.	ISIT35	Poslovna informatika	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
10.	ISIT37	Konfigurisanje i administracija baza podataka	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
11.	SE0016	Databases	(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.	SES202	Model Driven Software Development	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	SES204	Advanced Programming Tecnics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
15.	E2508	Agile Software Development Methodology	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	B. Milosavljević, M. Vidaković, S. Komazec, G. Milosavljević.: User Interface Code Generation for EJB-Based Data Models Using Intermediate Form Representations. Principles and Practice of Programming in Java, Kilkenny, Ireland, 2003		
2.	B. Milosavljević, M. Vidaković, S. Komazec, G. Milosavljević.: User Interface Code Generation for Data-Intensive Applications with EJB-Based Data Models, Software Engineering Research and Practice (SERP'03), Las Vegas, USA, 2003		
3.	G. Milosavljević, B. Perišić: Really Rapid Prototyping of Large-Scale Business Information Systems, IEEE International Workshop on Rapid System Prototyping, San Diego, USA, 2003		
4.	Milosavljević G., Ivanović D., Milosavljević B., Surla D.: Automated Construction of the User Interface for a CERIF-Compliant Research Management System, The Electronic Library, 2011, Vol. 29, No 5, pp. 565-588, ISSN 0264-0473		
5.	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		
6.	Ivanović D., Milosavljević G., Milosavljević B., Surla D.: A CERIF-Compatible Research Management System Based on the MARC 21 Format, Program: Electronic Library and Information Systems, 2010, Vol. 44, No 3, pp. 229-251, ISSN 0033-0337		
7.	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		
8.	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, Birmingham, England		
9.	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		
10.	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		
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


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

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



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

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering	
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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 career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	1984	Faculty of Philosophy - Novi Sad	English
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

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	Study Programme Accreditation		
UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT07	English Language 2	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies

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


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

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



Name and last name:		Mitrović M. Slavica	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.2005	
Scientific or art field:		Production Systems, Organization and Management	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	2004	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.	E2I41	Information System Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
2.	EOS33	Entrepreneurial management	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	S002A	Economics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	II121	Principles of economics	(SI1) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	I120	Principi menadžmenta(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	I201	Preduzetništvo(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	II1041	Innovation and Entrepreneurship	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	IM1005	Entrepreneurship	(I20) Engineering Management, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
9.	IM1007	Principles of engineering management	(I20) Engineering Management, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
10.	IM1215	Management of small and medium size enterprises	(I20) Engineering Management, Undergraduate Academic Studies
11.	IM1218	Models of open innovations and corporate entrepreneurship	(I20) Engineering Management, Undergraduate Academic Studies
12.	IMDS97	Entrepreneurial Management	(I22) Engineering Management, Specialised Academic Studies
13.	MBA304	Business Strategies	(IB0) Engineering Management - MBA, Specialised Professional Studies
14.	NIT07	Management Skills	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
15.	IMDS66	Managerial decision-making	(GI0) Geodesy and Geomatics, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	IMDR97	Entrepreneurial Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
17.	IMDR66	Managerial decision-making	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mitrović, S., Grubić-Nešić, L., Milisavljević, S., Melović, B., Zuzana Babinkova (in press) Manager's Assessment of Organizational Culture. E+M Ekonomie a Management ISSN 1212-3609.		
2.	Slavica MITROVIĆ, Božidar LEKOVIĆ, Valentin KONJA, Ana NEŠIĆ (in press). EMPLOYEE TIME MANAGEMENT: A CASE STUDY FROM SERBIA. Metalurgia International, ISSN 1582 – 2214. Vol. (1).		
3.	Valentin KONJA, Leposava GRUBIĆ-NEŠIĆ, Slavica MITROVIĆ (2012). LEADER-MEMBER EXCHANGE: A SHORT CASE STUDY FROM A SERBIAN COMPANY. Metalurgia International, ISSN 1582 – 2214. Vol.17 (11), pp. 146-153.		
4.	Melović, B., Mitrović, S., Milisavljević, S., Pejanović, R., Čelić, Đ. (2012). RESEARCH OF CONSUMPTION AND COMPETITIVENESS OF HOMEMADE PRODUCTS FOR MANUFACTURING IMPROVEMENT: CASE STUDY FROM MONTENEGRO. African Journal of Agricultural Research. ISSN 1991-637X .Vol. 7(26), pp. 3757-3764.		
5.	S. Mitrovic, S. Milisavljevic, I. Cosic, B. Lekovic, L. Grubic-Nesic, A. Ivanisevic: Changes in leadership styles in a transitional economy: A Serbian case study, African Journal of Business Management, Vol. 5(9), pp. 3563-3569, 4 May 2011. ISSN 1993-8233 Academic Journals.		
6.	Mitrović, S., Nikolić, J., Milisavljević, S., Čosić, I. (2012). Factors influencing managerial decision-making in industrial systems, International symposium on industrial engineering-SIE, Belgrade. Proceeding page 67-73. ISBN 978-86-7083-758-4 (COBISS:SR-ID 191329292).		
7.	Mitrović, S., Melović, B., Čosić, I. (2012). ENTREPRENEURIAL EDUCATION AS AN EMPLOYMENT-INFLUENCING FACTOR. International entrepreneurship conference „Recruitment in the light of entrepreneurship“, organized by Faculty of Economics, Podgorica, Montenegro. ISBN 978-86-80133-56-0		
8.	Mitrović, S., Milisavljević, S., Melović, B., Grubić-Nešić, L. (2012). Strategic management in the function of overcoming economical crises, 17 th International Scientific Symposium Strategic management and Decision Support Systems in Strategic Management, Palic-Subotica. ISBN 978-86-7233-305-3 (COBISS.SR-ID 250924295).		
9.	Leposava GRUBIĆ-NEŠIĆ, Sanja VRNJES, Biljana RATKOVIC-NJEGOVIĆ, Slavica MITROVIĆ (2012). ATTITUDES OF THE EMPLOYEES ABOUT THE ORGANIZATIONAL RESTRUCTURING: A SAMPLE OF ORGANIZATIONS IN SERBIA. Metalurgia International, ISSN 1582 – 2214. Vol.17 (12), pp. 153-160.		
10.	Lošonc (Lošonc) A., Ivanišević A., Mitrović S.: Strukturalna kriza: forme i uzroci, Novi Sad, Fakultet tehničkih nauka, 2012, str. 1-232, ISBN 978-86-7892-375-3, UDK: 268964871		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		8	
Current projects :		Domestic :	International :
		2	0

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
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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 career	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 (Indija), 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



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Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering	
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 references (minimum 5, not more than 10)				
1.	Spasic, I., Sarafranz, 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 :

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
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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 career	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 (Indija), Undergraduate Professional Studies
4.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Indija), 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



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Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering	
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 references (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

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



Name and last name:		Okanović Đ. Dušan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.2004	
Scientific or art field:		Applied Computer Science and Informatics	
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ISIT23	Web Programming	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
3.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	ISIT34	Identity Management	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	ISIT43	Configuration and Administration of Computer Systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
7.	ISIT45	eTrade and eBanking technologies and systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
11.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
12.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies



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

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



Name and last name:		Oros V. Đura	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 05.11.1982	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1997	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1982	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H361	Control of Electrical Drives	(H00) Mechatronics, Undergraduate Academic Studies
2.	M109	Electric Machines and Power Electronics	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	E2315	Electrical Machines in Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE419A	Testing of electrical machines	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EE421A	Electrical Design and Calculation Software	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ZR405A	Protection from the harmful effects of electricity in the application of power converters	(Z01) Safety at Work, Undergraduate Academic Studies
8.	ZR43A	Health and safety regulations in electrical systems	(Z01) Safety at Work, Undergraduate Academic Studies
9.	EE534	Special Electric Motor Drives	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	M2541	Occupational Safety and Protection in Operation with Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	GS016	Lighting in Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
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 references (minimum 5, not more than 10)			
1.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649		
2.	Đura V. Oros, Veran V. Vasić, Darko P. Marčetić: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components and Systems, 2008, Vol. 36, No. 12, str. 1318- 1336, ISSN 1532-5008.		
3.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445		
4.	Reljić D., Vasić V., Oros Đ.: Power factor correction and harmonics mitigation based on phase shifting approach, 15. International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia, pp. DS3b.12-1 - 12-8, ISBN: 978-1-4673-1971-3, IEEE catalog number CFP 1234A-USB		
5.	Dumnić B., Oros Đ., Milićević D., Matić D., Vasić V.: Vector Control of Induction Generator with Parallel Stator Resistance and Rotor Speed Estimation, 31. Power Electronics, Intelligent Motion, Power Quality PCIM, Nuremberg: Mesago PCIM GmbH, 4-6 Maj, 2010, pp. 608-612, ISBN 978-3-8007-3229-6		
6.	Vasić V., Marčetić D., Oros Đ., Kulić F.: Prediction of local instabilities caused by inverter dead time in AC drive, 13. European Conference on Power Electronics and Applications, Barselona, 8-10 Septembar, 2009, ISBN 9789075815009		
7.	Francuski Lj., Kulić F., Dumnić B., Oros Đ.: Fuzzy PI Controller for Vector Control of Induction Machine, 9. NEUREL- Symposium on Neural Network Applications in Electrical Engineering, Beograd: IEEE SCG Section, CAS - SP Chair, 25-27 Septembar, 2008, pp. 207-210, ISBN 978-1-4244-2903-5		
8.	Reljić D., Vasić V., Oros Đ.: Power Quality Considerations of Variable Speed AC Drives, A Simulation Study, Paper No. T6-2.4, pp. 1-5,, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5		
9.	Reljić D., Milićević D., Adžić E., Dumnić B., Grabić S., Porobić V., Vekić M., Ivanović Z., Katić V., Vasić V., Marčetić D., Oros Đ., Čorba Z.: Modern Laboratory Tools for Experimental Research in the Field of Electric Drives, 15. International Symposium on Power Electronics Ee, Novi Sad: Društvo za energetska elektroniku-Novu Sad, Elektrotehnički institut "Nikola Tesla"-Beograd, Fakultet tehničkih nauka-Novu Sad, 28-30 Oktobar, 2009, pp. 1-5, ISBN 978-86-7892-208-4		
10.	Ostojić D., Vasić V., Đujić D., Oros Đ.: The Influence of Parameter Mismatch on Natural Field Orientation Controlled Induction Motor Speed Estimation, 1. International Conference on Power Electronics and Intelligent Control for EnergyConservation, Varšava, 6-19 Oktobar, 2005		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		3	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	1 International : 0

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



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



	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
Study Programme Accreditation			
UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
15.	D0M23	Clone Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
17.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies
18.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Gilezan S., Pantović J., Žunić J.: Partitioning Finite d-Dimensional Integer Grids with Applications, chapter in: Approximation Algorithms and Metaheuristics (editor: T. F. Gonzalez), Chapman		
2.	Ghilezan S., Pantović J., Žunić J., Separating points by parallel hyperplanes - characterization problem, IEEE Transactions on Neural Networks, 2007, Vol. 18, No. 5, 1356-1363.		
3.	Mariangiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantovic, Daniele Varacca: Security types for dynamic web data. Theor. Comput. Sci, 2008, 402(2-3): 156-171		
4.	Pantović J., Vojvodić D., On the cardinality of nonfinitely based functionally complete algebras, Algebra Universalis, Vol. 43, No. 4, 2000, 369-374.		
5.	Pantović J., Tošić R., Vojvodić G., The cardinality of functionally complete algebras on a three element set, Algebra Universalis, Vol. 38, No.2, 1997, 136-140.		
6.	Pantović J., Machida H., Rosenberg I.: Regular sets of operations, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 19, No 1-3, pp. 149-162, ISSN 1542-3980		
7.	Machida H., Pantović J.: Three classes of maximal hyperclones, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 18, No 2, pp. 201-210, ISSN 1542-3980		
8.	Pantović J., Machida H.: Maximal hyperclones on E2 as hypercores , Journal of Multiple Valued Logic and Soft Computing, 2009, pp. 1-13, ISSN 1542-3980		
9.	Pantović J., Tošić R., Vojvodić G., Relative completeness with respect to two unary functions, Discrete Applied Mathematics, Vol.113 (2-3), 2001, 337-342.		
10.	Marinagiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantović, Security types for dynamic web data, Proceedings of Trustworthy Global Computing, Lecture Notes in Computer Science, 2007, Vol. 4661, str. 263-280.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		30	
Total of SCI(SSCI) list papers :		13	
Current projects :		Domestic :	2
		International :	3

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



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


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
6.	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		
7.	Pap I., Šarić Z., Pal S., Velikić I.: Hands-free VoIP solution for embedded platforms in consumer electronics, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 22-25, ISBN 978-1-4577-0233-4, UDK: 10.1109/ICCE-Berlin.2011.6031822		
8.	Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: A Full-Duplex Hands-Free Videophone Add-on Device for Digital Television Sets, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 382-385, ISBN 978-1-4577-0232-7, UDK: http://dx.doi.org/10.1109/ICCE-Berlin.2011.6031817		
9.	Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: An Integrated Audio and Video Communication System for Digital Television Sets, 2. IEEE Eastern European Conference on the Engineering of Computer Based Systems, Bratislava: IEEE Computer Society, 5-6 Septembar, 2011, pp. 78-84, ISBN 978-0-7695-4418-2, UDK: http://dx.doi.org/10.1109/ECBS-EERC.2011.20		
10.	Bjelica M., Pap I., Teslić N., Coulon J.: Set-top box-based home controller, 14. IEEE International Symposium on Consumer Electronics (ISCE2010), Braunschweig: IEEE Consumer Electronics Society, 7-10 Jun, 2010, pp. 1-6, ISBN 978-1-4244-6672-6/10, UDK: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5523704		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 0 International : 0 </div>

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

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

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



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>		
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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 career	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 Carnegie Mellon University - Pittsburgh	Computer Science
Education Specialist Thesis	2004	Software Engineering Institute at Carnegie 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 (Indija), Undergraduate Professional Studies
7.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
8.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
9.	ISIT2E	Osnove projektovanja softvera	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
10.	ISIT33	Integracija i verifikacija softverskih aplikacija	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Computing and Control Engineering	
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 references (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				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	Osnovi softverskog inženjerstva, Branko Perišić, edicija Tehničke nauke, 2012 STILOS Novi Sad		
5.	Osnovi računarstva - Metodička zbirka zadataka - Matematičko-logičke osnove rada računara, Edicija tehničke nauke, 1996 STILOS Novi Sad		
6.	Branko Perišić "DMIS-Distributed Medical Information System Concept&Structure", SystemScienceJournal N0.1 Vol.13 1987		
7.	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		
8.	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		
9.	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		
10.	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		
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

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



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


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (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 :	<div style="display: flex; justify-content: space-between;"> 0 International : 3 </div>

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



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	V. Vujičić, N. Pjevalica, "Stohastička realizacija digitalnih filtara", D.O.G.S. 2000 zbornik radova, pp.60-63, Novi Sad, Yugoslavia 2000		
9.	N. Pjevalica, "Digitalno merilo efektivne vrednosti", Kongres metrologa Jugoslavije 2000, (CD-ROM zbornik radova), Novi Sad, Yugoslavia 2000.		
10.	J. Tomić, N. Pjevalica, Integrisano merilo harmonika, Kongres metrologa, Beograd, 2005 godina.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :		Domestic :	International :

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



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Popović Lj., Popov S., Čosić Đ., Sakulski D.: Impact of Visualization on Data Availability, UDK: CIP je dostupan u Univerzitetskoj biblioteci Rijeke pod brojem 121219001		
9.	Alargić I., Badnjarević I., Vrtunski M., Popov S.: Setting the platform for testing the quality of DTM in the format of DTM-ASCII , 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica, , pp. 253-256, ISBN 978-1-4244-7395-3		
10.	Popov S., Pavlović A., Čosić Đ., Hlebjan M.: Interfacing Data Structures of Legacy Systems, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica: 2010 IEEE , , pp. 409-411, ISBN 978-1-4244-7395-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	0

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



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

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

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


Name and last name:		Pribičević I. Boško	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Geodesy	
Academic carieer	Year	Institution	Field
Academic title election:	2010		Geodesy
PhD thesis	2000		Geodesy
Magister thesis	1999		Geodesy
Bachelor's thesis	1986		Geodesy
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E241	Geospatial Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI504	Advanced Techniques of Laser Scanning	(GI0) Geodesy and Geomatics, Master Academic Studies
7.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies
8.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
9.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
10.	DGI011	Selected Chapters in Deformation Analysis and Measurements	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
11.	DGI012	Selected topics in integrated systems of surveying	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
12.	DGI015	Selected topics in geophysics	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Precise geodetic and hydrographic measurements in karst areas. Reports on Geodesy. 2(83) (2007) ; 63-68 . article		
2.	Research on the International Geodynamic Test-Area Plitvice Lakes within CERGOP-2 Project.. Reports on Geodesy.Warsaw University of Technology, Institute of Geodesy and Geodetic Astronomy. 79 (2006) , 4; 165-172		
3.	Application of geographical information systems and hydrographic surveying in the international geodynamic test area Plitvice Lakes. Reports on Geodesy. 79 (2006) , 4; 181-186		
4.	Five years of EUREF-permanent GPS-stations in Croatia. Reports on Geodesy. 76 (2006) , 1; 91-98		
5.	Geodesy, tectonics and geodynamics of Dinnarides. REPORTS ON GEODESY 76 (2006) , 1; 85-90		
6.	Determination of the recent structural fabric in the Alps-Dinarides area by combination of geodetic and geologic methods. Raziskave s področja geodezije in geofizike 2002. Ljubljana : Fakulteta za gradbeništvo in geodezijo, Univerza v Ljubljani, 2002. 57-65		
7.	Medak Damir; Pribičević Boško; Krivoruchko Konstantin: Geostatistička analiza batimetrijskih mjerenja na primjeru jezera Kozjak Geodetski list : glasilo Hrvatskoga geodetskog društva 62(85), (2008), 3; 131-142		
8.	Pribičević Boško; Medak Damir; Đapo Almin: Progušćenje točaka Geodinamičke mreže Grada Zagreba u podsljemenskoj zoni. Geodetski list. 61(84), (2007), 4; 247-258		
9.	Using Trimble Scanning Technologies when Improving Technical Documentation of an Oil/Gas Facility, Las Vegas, Trimble Dimensions, 2009.		
10.	Application of Terrestrial Laser Scanning in Advanced Construction Survey, SPAR Conference, Houston, 05.03.2009.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		6	
Current projects :		Domestic :	0 International : 0

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

Name and last name:		Radivojević D. Radoš	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1991	
Scientific or art field:		Sociology	
Academic career	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 (G10) 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 Environment	(A00) Architecture, Undergraduate Academic Studies
10.	ASO311	Sociology of Art and Culture	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ETI41	Sociology of Technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	IM1003	Sociology of Work	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	A005S	Urban sociology and economics: selected chapters	(A00) Architecture, Specialised Academic Studies
14.	ZRMI3A	Sociological and Legal Aspects of Occupational Safety	(Z01) Safety at Work, Master Academic Studies
15.	A005	Urban Sociology and Economics – Selected Chapters	(A00) Architecture, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sociologija nauke, Stylos, Novi Sad, 1997.		
2.	Tehnika i društvo, Fakultet tehničkih nauka, Novi Sad, 2003.		
3.	Sociologija naselja, Fakultet tehničkih nauka, Novi Sad, 2004.		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
4.	Fakultet tehničkih nauka-Razvoj, delatnost, rezultati, Novi Sad, 2006.		
5.	Karakteristike inženjersko ekonomskog proučavanja organizacije rada, Sociološki pregled br. 1-2, Beograd, 1984.		
6.	Socijalizam kao neproduktivni sistem, Sociološki pregled br 1-2, Beograd, 1994.		
7.	Karakteristike empirijskog proučavanja organizacije rada, Sociologija br 4, 1985.		
8.	Milićeva sociologija saznanja, Sociologija br 4, Beograd, 1997.		
9.	Socio-psychological consequences of the flood-an Example of Jasa Tomic, Editors:Stevan Bruk&Tiosav Petkovic, Belgrade, 2006.		
10.	Gordana Vuksanović, Radoš Radivojević, THE ROLE OF CHILDREN IN INVESTIGATING AND ELIMINATING THE CONSEQUENCES OF NATURAL DISASTERS		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		2	1

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



Name and last name:	Rakić S. Predrag		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.01.2003		
Scientific or art field:	Applied Computer Science and Informatics		
Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics



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

	ID	Course name	Study programme name, study type
1.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ISIT04	Osnove računarar	(SI1) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SE0031	Operating Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0033	Generic and Meta Programming	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SEM099	Programm Optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative references (minimum 5, not more than 10)



1.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI-CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978
2.	Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214
3.	Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45
4.	Rakić P., Stričević L., Suvajdžin Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad, 16-20 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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>				
Representative references (minimum 5, not more than 10)					
10.	Rakić P., Stričević L., Živanov Ž., Suvajdžin Z., Hajduković M.: Računarska učionica - iskustva u pripremi i korišćenju, INFO M, Beograd, 2007, Vol. 6, No 21, pp. 9-13, ISSN 1450-6254, UDK: 659.25				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		0			
Total of SCI(SSCI) list papers :		5			
Current projects :		Domestic :	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">1</td> <td style="width: 50%;">International : 0</td> </tr> </table>	1	International : 0
1	International : 0				

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



Name and last name:		Rapać 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 career	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	Contemporary 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



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	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering		
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 references (minimum 5, not more than 10)			
1.	Milan R. Rapać, "Optimalno i suboptimalno upravljanje klasom sistema sa raspodeljenim parametrima", doktorska disertacija, FTN Novi Sad, 2011		
2.	Milena Petković, Milan R. Rapać, 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. Rapać, Zoran D. Jeličić, Optimal control of heat diffusion systems, Nonlinear Dynamics, Vol 62, Number 1-2, 39-51, 2010		
4.	Alessandro Pisano, Milan R. Rapać, 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 Rapać, 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. Rapać, Željko Kanovic, Time-Varying PSO - Convergence Analysis, Convergence Related Parameterization and New Parameter Adjustment Schemes, Information Processing Letters , 109 (2009) 548–552		
7.	Milan R. Rapać, 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. Rapać, 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. Rapać, 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. Rapać, 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

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

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
Study Programme Accreditation					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
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 references (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

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

Name and last name:		Rosić -. Mirko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Medical Sciences - Kragujevac 01.01.2000	
Scientific or art field:		Medical Science	
Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Medical Sciences - Kragujevac	Medical Science
PhD thesis	1990	School of Medicine - Beograd	Medical Science
Magister thesis	1988	School of Medicine - Beograd	Medical Science
Bachelor's thesis	1984	School of Medicine - Beograd	Medical Science
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.	BMI104	Physiology with pathophysiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
Representative references (minimum 5, not more than 10)			
1.	O. Gajović, Z. Lazić, S. Pantović, M. Čočić, J. Stojanović, J. Stanarčić, G. Rosić i M. Rosić. Effects of 3-methylhistamine and phenylethylamine on histamine action on isolated guinea-pig trachea rings. Acta veterinaria 2011; 61(5-6):505-512.		
2.	N. Filipovic, M. Rosic, I. Tanaskovic, Z. Milosevic, D. Nikolic, N. Zdravkovic, A. Peulic, M. Kojic, D. Fotiadis and O. Parodi. ARTreat project - Three-dimensional Numerical Simulation of Plaque Formation and Development in the Arteries. IEEE Transactions on Information Technology in BioMedicine 2012; 16(2):272-278.		
3.	V. Zdravkovic, S. Pantovic, G. Rosic, A. Tomic-Lucic, N. Zdravkovic, M. Colic, Z. Obradovic, and M. Rosic. Histamine blood concentration in ischemic heart disease patients. J Biomed Biotechnol 2011; 2011:315709.		
4.	M. Rosic, V. Ilic, Z. Obradovic, S. Pantovic, G. Rosic. The mathematical analysis of the heart rate and blood lactate curves during incremental exercise testing. Acta Physiol Hung 2011; 98(4):455–463.		
5.	M.A. Rosic, S. Pantovic, G.L. Rosic, A. Tomic-Lucic, T. Labudovic, V. Zivkovic and V. Jakovljevic. Glucagon effects on ischemic vasodilatation in the isolated rat heart. Journal of Biomedicine and Biotechnology 2010; 2010:231832		
6.	Pantovic S, Rosic G, Obradovic Z, Rankovic G, Stojiljkovic N. and Rosic M. Dynamic response of blood vessel in acute renal failure. Gen Physiol Biophys 2009; 28:87-92.		
7.	Rosic M, Pantovic S, Rankovic V, Obradovic Z, Filipovic N. and Kojic M. Evaluation of dynamic response and biomechanical properties of isolated blood vessels. J Biochem Biophys Methods 2008; 70(6):966-972.		
8.	Stojanovic B, Kojic M, Rosic M, Tsui C P. and Tang CY. An extension of Hill's three-component model to include different fibre types in finite element modelling of muscle. International Journal for Numerical Methods in Engineering 2007; 71:801-817.		
9.	Rosic M, Pantovic S. and Obradovic Z. Experimental and mathematical model for the evaluation of dynamic responses of isolated blood vessels. Medicus 2006; 7(3):98-102.		
10.	M. Kojic, A. Ziemys, M. Milosevic, V. Isailovic, N. Kojic, M. Rosic, N. Filipovic, M. Ferrari. Transport in biological systems. Journal of the Serbian Society for Computational Mechanics 2011; 5(2):101-128.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

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



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



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

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



Name and last name:		Satarić V. Miljko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		03.01.1973	
Scientific or art field:		Physics	
Academic career	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.	E1410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE203S	Odabrana poglavlja iz kvantne elektronike	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE301S	Molekularna elektronika(uneti naziv na engleskom)	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
9.	EM511	Quantum and Organic Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	SI028	Biophysics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	DE203	Selected Chapters in Quantum Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE301	Molecular Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES			Computing and Control Engineering		
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
13.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	S. Zdravković, M.V. Satarić, "Single-Molecule Unzipping Experiments on DNA Peyrard-Bishop-Dauxois Model", Phys.Rev.E73,021905-11,2006.				
2.	J. A. Tuszynski, J. A. Brown, E. Crawford, E. J. Carpenter, M. L. A. Nip, J. M. Dixon, M. Satarić, "Molecular dynamics simulations of tubulin structure and calculations of electrostatic properties of microtubules", Mathematical and Computer Modelling, vol. 41, no.10, pp. 1055-1070, 2005.				
3.	M. Satarić, B. Satarić, J. A. Tuszynski, "Nonlinear model of microtubule dynamics", Electromagnetic Biology and Medicine, vol.24, no. 3, pp. 255-264, 2005.				
4.	S. Zdravković J. A. Tuszynski, M. Satarić "Peyrard-Bishop-Dauxois model of DNA dynamics and impact of viscosity", Journal of Computational and Theoretical Nanoscience, vol. 2, no. 2, pp. 263-271, 2005.				
5.	S. Zdravković, M. Satarić, "Optical and Acoustical Frequencies in a Nonlinear Helicoidal Model of DNA Molecule", Chinese Physics Letters 22, pp. 850-853, 2005.				
6.	S. Portet, J. A. Tuszynski, J. M. Dixon, M. Satarić, "Models of spatial and orientational self-organization of microtubules under the influence of gravitational fields", Physical Review E, vol. 68, no. 2, 2003.				
7.	M. Satarić, J. A. Tuszynski, "Relationship between the nonlinear ferroelectric and liquid crystal models for microtubules", Physical Review E, vol. 67, no. 1, 2003.				
8.	S. Zdravković, M. Satarić, "DNA dynamics and big viscosity", International Journal of Modern Physics B, vol.17, no. 31-32, pp. 5911-5923, 2003.				
9.	M. Satarić, J. A. Tuszynski, "Impact of regulatory proteins on the nonlinear dynamics of DNA", Physical Review E, vol. 65, no. 5, 2002.				
10.	G. Keković, D. Raković, M. Satarić, D. Koruga, "A kink-soliton model of charge transport through microtabular cytoskeleton", Current Research in Advanced Materials and Processes, vol. 494, pp. 507-512, 2005.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			295		
Total of SCI(SSCI) list papers :			67		
Current projects :			Domestic :	1	International : 2


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

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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397		
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59		
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		54	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> 2 International : 0 </div>

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



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



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

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



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

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

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



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

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

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



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (minimum 5, not more than 10)			
1.	Analiza diskursa udžbenika engleskog jezika, Monografija, Zadužbina Andrejević, Beograd 2006.		
2.	Retorička organizacija poslovne vesti, Monografija, Zadužbina Andrejević, Beograd 2009.		
3.	Engleski jezik za GRID 3 - Academic Writing for Graphic Engineering and Design, FTN Izdavaštvo, Novi Sad 2012.		
4.	Using Internet in English Language Teaching, NEW EDUCATIONAL REVIEW, (2011), vol. 26 br. 4, str. 45-59.		
5.	Reflections of English Language Teachers Concerning Computer Assisted Language Learning (Call), NEW EDUCATIONAL REVIEW, (2011), vol. 23 br. 1, str. 269-282.		
6.	Pragmatički aspekt udžbenika engleskog jezika, Pedagogija, 2009, 1, str.133-145.		
7.	Students' Communicative Competence, Zbornik Instituta za pedagoška istraživanja, 2009, 1, str. 180-195.		
8.	Retorička analiza lida poslovne vesti, Zbornik Matice Srpske za filologiju i lingvistiku, 2011, 1, str.191-210.		
9.	Some Aspects of Technical Statements in Power Engineering, Zbornik radova, XI Međunarodni simpozijum Energetska elektronika Ee 2001, str.150-153.		
10.	Genre Analysis of Research Abstract of an Engineering Scientific Paper, In Proceedings of English Language and Literature Studies: Interfaces and Integrations, 10-12 December 2004, Faculty of Philology, Belgrade, pp.365-374.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		20	
Current projects :		Domestic :	0
		International :	1

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>	
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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 career	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 references (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_zgdzj-e200904020.aspx		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>				
	<p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering</p>				
Total of SCI(SSCI) list papers :	22				
Current projects :	Domestic :	1	International :	0	

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



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



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

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

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
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 references (minimum 5, not more than 10)			
1.	Vidaković, M., Milosavljević, B., "Internationalisation of the BISIS Library Information System", Proceedings of the 28th International Unicode Conference, Orlando, USA, September 7-9, 2005.		
2.	Vidaković, M., Sladić, G., Zarić, M., "Metadata Harvesting Using Agent Technology", Proceedings of the 8th IASTED International Conference on Software Engineering and Applications (SEA 2004), Cambridge, USA, November 9-11, 2004., pp. 489-493		
3.	Vidaković M., Sladić G., Komazec S., "Sistemi za upravljanje elektronskim sadržajima i njihova promena u eUpravi", Info M: časopis za informacione tehnologije i multimedijalne sisteme, 2006., pp. 36-41, ISSN 1451-4397		
4.	Vidaković, M., Zubić, T., Milosavljević, B., Pupovac, B., Tošić, T., "Processing Bibliographic Documents in the Library Information System BISIS", Proceedings of the International Conference on Distributed Library Information Systems, Ohrid, Former Yugoslav Republic of Macedonia, June 1-6, 2004., pp. 65-91.		
5.	Vidaković, M., Sladić, G., Konjović, Z., "Security Management In J2EE Based Intelligent Agent Framework", Proceedings of the 7th IASTED International Conference on Software Engineering and Applications (SEA 2003), Marina Del Rey, USA, November 3-5, 2003., pp. 128-133.		
6.	Milosavljević B., Vidaković M., Komazec S. and Milosavljević G., "User Interface Code Generation for Data-Intensive Systems with EJB-based Data Models", In Software Engineering Research and Practice, Las Vegas, NV, USA, 2003.		
7.	Vidaković, M., Konjović, Z., "EJB Based Intelligent Agents Framework", Proceedings of the 6th IASTED International Conference on Software Engineering and Applications (SEA 2002), Cambridge, USA, November 4-6, 2002., pp. 343-348.		
8.	Vidaković M., "Agentska okruženja", Zadužbina Andrejević. Beograd, 2007, ISBN: 9-788672-446210		
9.	Milosavljević B., Vidaković M., Java i Internet programiranje, FTN izdavaštvo, 2007., ISBN 978-86-7892-047-9		
10.	Okanović D., Vidaković M., „Upotreba JMX mlet servisa za ažuriranje verzija aplikacija“, Zbornik radova YulInfo 2007 (CD), Kopaonik 2007.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		119	
Total of SCI(SSCI) list papers :		7	
Current projects :		Domestic :	1 International : 0

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



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
14.	ESI032	Smart grid applications in Cloud	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Kljajic, Miroslav; Gvozdenac, Dusan; Vukmirovic, Srdjan Use of Neural Networks for modeling and predicting boiler's operating performance ENERGY 2012 45 (1):304-311		
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883		
3.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679		
4.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64		
5.	D. Capko, A. Erdeljan, S.Vukmirovic, I. Lendak, A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control ISSN: 1392-124X, pp. 316 - 322		
6.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control ISSN: 1392-124X, pp. 310 - 316		
7.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836		
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456		
9.	Vukmirović S., Vujić G., Vujić B., Jovičić N., Jovičić G., Babić M.: Experimental and Artificial Neural Network approach for forecasting of traffic air pollution in urban areas: the case study of Subotica, Thermal Science - International Scientific Journal, 2010, Vol. 14, pp. 79-87, ISSN 0354-9836		
10.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		12	
Current projects :		Domestic :	2
		International :	0

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



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

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

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering </div>		
Representative references (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 :	International :
		0	0



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources adequate for the study programme features and predicted students' number are provided. The time table of the Computing and Control Engineering study programme is organized in two shifts ensuring 2 m² of space per student.

Teaching is done in lecture halls, classrooms and specialized laboratories. The library houses more than 1000 library units relevant for the Computing and Control Engineering study programme. All the courses of the study programme are covered with adequate course literature, course books, and additional material which is available in time and in insufficient quantities for the regular teaching process. Sufficient IT support is also provided.

The Faculty of Technical Sciences has its own library and a reading room with enough space for every student in the lecture halls, classrooms and laboratories.

The Department for Computing and Control Engineering where the study programme of Computing and Control Engineering is performed has laboratories which are equipped in cooperation with renowned international companies: IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Leica, Trimble, Schneider electric.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Computing and Control Engineering

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. A long standing tradition of student survey should be emphasised here.

The quality control process is conducted through:

- end of the term students survey for each course
 - graduate students survey at the graduation regarding the quality of the study programme and the logistic support. In addition, conditions for studying (classroom tidiness and neatness, etc...) are also evaluated.
 - student survey at the end of the school year when the logistic support is evaluated
 - student survey at the enrolment at the new year of studies when student evaluate the study programme of the previous year
 - survey of the teaching and non-teaching staff on the quality of the study programme and its logistic support. Here the work of the Dean's office, registrar's office, library, and other services at the Faculty is evaluated. In addition, conditions for studying (classroom tidiness and neatness, etc...) are also evaluated.
- The quality of the study programme is monitored by a committee formed by the heads of all chairs involved in the study programme and at least one student from each year of study.



Study Programme Accreditation
UNDERGRADUATE ACADEMIC STUDIES Computing and Control Engineering

Standard 12. Distance Education

Distance learning is not provided for.