STUDY PROGRAMME ACCREDITATION MATERIAL:

MEASUREMENT AND CONTROL ENGINEERING

MASTER ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

Jelisaveta Šafranj

Ivana Mirović

Marina Katić

Vesna Bodganović

Dragana Gak

Ličen Branislava

Content

Content

Content

Programme name	Measurement and Control Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Technical-Technological Science
Scientific, proffesional or art field	Electrical and Computer Engineering
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60
Academic degree, abbreviation	Master in Electrical and Computer Engineering, M.El.Comp.Eng.
Study length	1
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	32
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00. Introduction

The study programme of the Graduate Academic Studies of Measurement and Control Engineering is the continuation of the undergraduate academic study programme of the same name at the Faculty of Technical Sciences, the University of Novi Sad.

The study curriculum and programme is in accordance with the most up-to-date scientific achievements and Bologna recommendations. The concept of the programme is defined in such a way that it educates future masters of engineering who will posses the knowledge which is necessary for practical work and which at the same time enables them to continue education at the corresponding specialist or doctoral studies.

Graduate Academic Studies-Master last one year. During that time students work on the final-master thesis. Students who successfuly complete the graduate academic studies receive a degree of Master in Electrical and Computer Engineering.

The rapid development in the field of electrical and computer engineering has determined the structure and content of the study programme and the need to develop specializations in the specific areas of interest.

The emphasis of the study programme is placed on working in smaller groups in well equipped experiment laboratories and computer rooms appropriate for successful science-research work in the field of electrical and computer engineering.The studies especially value independent work, encourage participation in practical professional and developmental projects within the laboratories and develop problem solving abilities. 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.

Standard 01. Programme Structure

The name of the study programme is Measurement and Control Engineering. The academic degree obtained is Master in Electrical and Computer Engineering.

The structure of the programme enables the students to acquire the increased knowledge in the chosen area of interest, to gain the knowledge which will enable them to use professional literature, to apply the knowledge to practical professional problems as well as to continue their studies, if they decide to do so.

In order to be admitted to the study programme students need to have graduated at the appropriate graduate academic studies with at least 240 ECTS and to have passed the admission examination. The admission examination is taken to check students' knowledge in Measurement and Control Engineering and is worth 60 points. A student passes the admission examination if they have obtained minimally 14 points.

Study program of master academic studies Measurement and Control Engineering lasts one year and is worth 60 ECTS. This program of study includes required and elective courses, professional practice and graduate work.

The study program of each course is designed to give students the opportunity to concretize the specific issues in certain areas of electrical engineering and computer science.

Subjects in this study programme last one semester, and thereby make the appropriate number of credits. Standards established that one ECTS credit equals approximately 30 hours of student activities (lectures, exercises, preparing for exams, ...). Student obligations on exercises may include the writing of seminar papers and homework, project assignments, semester and graphic works with every activity of students during the teaching process is monitored and evaluated by Rules of teaching, methodology and awarding ECTS, based on valuation of exam prerequisites and the way of testing the students.

Upon enrollment each student gets an advisor who directs him/her, according to student interests, which subjects to choose from elective positions, where to do the internship and which thesis topic to choose. The proposal that a student and his advisor make is approved by the Commission for the quality of the study program. Advisor checks the progress of students during training at the Faculty.

Courses are carried out in the form of lectures and practice. During the teaching process the emphasis is placed on the student's independent work and research work as well as on their encouraged individual participation in the course realization. At lectures, while using the appropriate modern didactic-methodological methods, students become familiar in the course subject matter and are offered explanations that help them understand it more easily. At practice classes, complementing the lectures, students solve specific engineering problems and are given examples which further illustrate the course matter. The practice classes can be auditory, computer or laboratory practice. At this level of studies, teachers insist on work in smaller groups so that they are able to pay more attention to each student. Practice can be auditory, laboratory, computer or computing. Practice classes can partially be conducted in a factory or other institution.

Each course is worth a certain number of ECTS credits and the Master studies are considered to be completed after the student has fulfilled all the obligations prescribed by the study programme and has attained the minimum of 60 ECTS credits.

Standard 02.   Programme Objectives

The goal of the study programme is to educate students for the profession of an master in electrical and computer engineering in accordance with the society's needs.

The study programme Measurement and Control Engineering is designed to provide the knowledge and skills that are socially justified and useful. An important segment of every developing society is the ecucation of highly-competent scientifically and professionaly oriented experts in the field of electrical and computer engineering, for this field of science, in the most general sense, has played a crucial role in the development of industry and raising the standard of living in many countries. The objective of the study programme is fully in accordance with the main objectives and goals of the Faculty of Technical Sciences and is in line with the high educational standards proposed for qualified master engineers. This study programme is designed to offer the master engineers in electrical and computer engineering the knowledge that is in accordance with the highest European and world educational standards.

Standard 03.   Programme Goals

The objective of the study programme is to produce qualified master engineers who are highly competent and possess the necessary knowledge and skills needed in further education at the doctoral studies and are able to keep step with the fast technological development in the field of electrical and computer engineering.

The objective of the study programme is to provide high scientific competence and academic skills in the field of electrical and computer engineering. The study programme, additionally, encourages the development of creativity in the problem solving process and the ability of critical thinking, the development of team work skills and the acquisition of specific knowledge and skills related to the chosen study group.

One of the specific objectives, which is in accordance with the objectives of professional education at the Faculty of Technical Sciences, is the development of students' awareness of the neccessity for permanent education, professional development and advancement in the fast-advancing field of electrical and computer engineering. Another objective of the study progamme is to provide education for experts who will be able to quickly adjust to team work as well as to present (in written form or orally) the scientific results to the professional and general public, especially through scientific and professional papers.

Standard 04.   Graduates` Competencies

Students with Master`s degree in electrical and computer engineering who have completed Measurement and Control Engineering study programme have the competence to solve real life problems in practice as well as to continue education if they decide to do so. Their competences include, primarily, critical thinking, the ability to analyze a problem, synthesize a solution, predict the behaviour of the chosen solution with the clear idea of the advantages and disadvantages of the chosen solution. Students are trained to have at all times a clear idea of timing, quality and cost of the proposed solution and to find the optimum balance between these three parameters. By completing this programme, students will be competent in the development, design, construction, implementation and application of modern complex systems and system components in electrical and computer engineering.

Students who successfully complete the study programme will be able to independently run experiments and measuring procedures in the field of electrical engineering, to do statistical data processing, and to formulate and present adequate results and conclusions. Special emphasis is placed on the professional ethic development.

Besides the above stated, the studies insist on the intensive use of information-communication technologies and available modern research equipment. Thus, graduated students at this level of studies (master engineers) will be competent for tracking and application of novelties in the profession, as well as for successful and equal cooperation with colleagues in the specific professional field from educational, scientific, research or economic organizations in the country and the environment.

Standard 05.   Curriculum

The curriculum of graduate academic (Master) studies in Measurement and Control Engineering is designed to fulfil all the defined objectives. The structure of the study programme ensures that the elective courses represent al lest 50% of ECTS credits.

Upon completion of graduate academic studies student wins a minimum of 60 ECTS (which adds to the undergraduate studies' ECTS to at least 300 ECTS). All courses last one semester and carry an appropriate number of ECTS where one ECTS equals approximately 30 hours of student activities. 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, prerequisites for attending the course, content of the course, recommended literature, methods of teaching, types of evaluation and other.

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 centres, organizations which provide infrastructure support for innovative activities, industrial and public institutions.

A student`s studies are completed with the production of a Master Thesis which consists of study and research work, theoretical and methodological framework necessary for the in depth understanding of the area in which the Master thesis is done and the production of the thesis itself.

Prior to the defence of the thesis the candidate takes an exam on the theoretical and methodological bases usually before a committee formed for the defence. The final grade of the master thesis is formed on the basis of the grade on the theoretical and methodological bases and the grade on the production and defence of the thesis. Master thesis is defended before a committee of at least three professors of whom al least one has to be from another department or faculty.

Table 5.2 Course specification

Course:		Engineering communication, logistics and intellectual property
Course id:	EIIKL	
Number of ECTS:	5	

Teachers:	Župunski Ž. Ivan, Sovilj M. Platon, Spasić-Jokić M. Vesna
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Acquiring necessary knowledge in the field of engineering communication and logistics and corresponding fields, as a condition for the effective and efficient operation of the organization. Acquisition of basic knowledge in the field of intellectual property and intellectual property protection.

2. Educational outcomes (acquired knowledge):

Contemporary functioning of modern business systems based on modern methods and procedures, and the implementation of a systematic and procedural approach in the design and running of an organization. Important role in this belongs to way of communication between engineers, as well as the basic mechanism of understanding each other, as well as logistics as support to processes of the organization for it to achieve defined objectives with optimum use of resources. Modern business and market share requires the use of modern methods and procedures appropriate for the protection of intellectual property. Students will be able to recognize the need for and methods of protecting intellectual property in the field of work and participate in relevant procedures for the protection of intellectual property.

3. Course content/structure:

Communications concepts. Communication systems. Messages and information. The amount of information. Characteristics of information. Source of information. Transmission of messages. The purpose and objectives of transmitting a message. Models of communication systems. Receipt and use of messages. Archiving and storing messages. Communication problems, disturbance and errors. Procedures and methods of communication. Communication in the organization. Aspects of engineering communication. Term, place and role of logistics. Engineer logistics to processes of creation and use of the product. Personnel and logistics organization. Logistics of supply. Internal transport logistics. Logistics in warehousing. Logistics in sales. Logistics in packaging and delivery. Logistics in equipment maintenance. Logistics in service. Logistics in the postuse of products. Logistics in protection systems. Basics of science work, system of scientific and technological information, intellectual and industrial property, asl segments of the logistics. Other parts of engineering logistics. The concept of intellectual property. The concept of intellectual property protection. International and national legislation in the field of intellectual property.

4. Teaching methods:

Lectures. Auditory exercises. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Presentation	Yes	10.00	Written part of the exam - tasks and theory	Yes	50.00
Term paper	Yes	20.00	Oral part of the exam	Yes	20.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Mile Pešaljević	Inženjerske komunikacije i logistika	FTN Novi Sad	1996

Table 5.2 Course specification

Course:		
Course id:	EI504	Management of Small and Medium Enterprises
Number of ECTS:	4	

Teachers:	Lazarević M. Milovan, Leber J. Marjan
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Becoming familiar with problems of small and medium enterprise management.

2. Educational outcomes (acquired knowledge):

The ability to participate in the process of small and medium enterprise management.

3. Course content/structure:

Classification of enterprises; Basics of company management. Market, materials, technology, organization, and human resources. Geographical position. Technical technological development. Feasibility study. Economic and financial variables. Choosing variables. Main, detail project of the chosen variable. Project management of observed investment.

4. Teaching methods:

Lectures. Auditory practice.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	50.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	20.00
Term paper	Yes	20.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Mile Pešaljević	Inženjerske komunikacije i logistika	FTN, Novi Sad	1996
2,	R. John Hansman, Jr.	Characteristics of Instrumentation	CRC Press LLC.	2000

Table 5.2 Course specification

Course:		
Course id:	AU502	**Distributed Control Systems**
Number of ECTS:	6	
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:
3	0	3	0	0

Precondition courses	None

1. Educational goal:

Students get theoretical and practical knowledge about distributed control systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used for solving concrete engineering problems and foe practical applications.

3. Course content/structure:

Introduction to distributed control systems – DCS (definitions, characteristics, architecture). Communication subsystem (function, communication networks, protocols, realization). DCS in the automation of processes and plants (hierarchical levels, data bases, DCS realization, human machine interface, supervisory control and data acquisition systems – SCADA). Communications in industry and characteristics of industrial communication networks. Operation of DCS in real time. Closed loop control over communication network. open DCS and subsystem integration.

4. Teaching methods:

Lectures, computer and laboratory practice, consultations. The theoretical part of the course is examined orally by students` answering problem questions. The oral part is worth 30 points and is based on a set of exam questions. The practical part of the exam is taken in the computer laboratory (colloquium) and through homework assignments. The final grade is formed on the basis of the results of the colloquium and the programming tasks, the quality of the homework 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
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	A. Erdeljan	Štampani materijal koji pokriva izlaganja i vežbe	FTN	2005

Table 5.2 Course specification

Course:		
Course id:	EIDNU	**Supervisory Control and Data Acquisition Systems Design**
Number of ECTS:	6	

Teachers:	Mitrović Lj. Zoran, Tomić J. Josif, Vujičić V. Vladimir
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

The acquisition of basic theoretical and practical knowledge in the field of Supervisory control and data acquisition systems design.

2. Educational outcomes (acquired knowledge):

The ability to understand the complexity of the system. The ability to define the input and output variables which are required for the remote monitoring and control. Review potential decomposition of the system and the need for redundancy in some parts of the system. The ability to define the critical path. The ability to design a system for remote monitoring and control in various industries.

3. Course content/structure:

Automatic online data acquisition from analog and digital sensors, transducers and other devices for receiving information. Preprocessing and signal processing. Saving the data for further processing. Data archiving. Subsystem for reports generation. System for man-machine interface. Alarm subsystem. The control and command functions and the corresponding subsystem. Standard protocols. Redundancy of system components. The concurrency of process algorithms. Configuring the system. Subsystem for user management.

4. Teaching methods:

Lectures, laboratory exercises, consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	David Bailey, Edwin Wright	Practical SCADA for Industry	Elsevier	2003
2,	Roger Haines, Douglas Little	Control Systems for Heating, Ventilating and Air-Conditioning	Springer	2006
3,	Havard Devold	Oil and Gas Production Handbook	ABB	2006
4,	James Brennan	Food Processing Handbook	Wiley-VCH	2006

Table 5.2 Course specification

Course:		Measurement systems in industrial environment
Course id:	EIMIO	
Number of ECTS:	6	

Teachers:	Milovančev S. Slobodan, Mitrović Lj. Zoran, Pejić V. Dragan
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Acquiring basic knowledge in the field of practical measurements in industrial environment.

2. Educational outcomes (acquired knowledge):

Introduction to the measurements and measuring systems in the real industrial environment. Practical training for autonomous work. Essential safety standards in measurements and instrumentation handling. Typical examples of measuring systems and instruments used in everyday practice. Basic troubleshooting of faulty measuring systems.

3. Course content/structure:

Characteristics of measuring systems in industrial environment. Measurement safety standards in industrial environment. Characteristics and practical implementation of standard hardware devices. Analog, digital, mixed analog-digital, microprocessor and computer based measuring systems in industrial environment. Typical mistakes in practice while handling measuring devices. Troubleshooting standard problems and faults of measuring systems in practice. Real environment work simulation in laboratory environment. Field work with practical examples of industrial grade measuring systems used in practice. Measurement of basic electrical values in industrial environment. Measurement data reading, processing and interpretation. Autonomous and team work practice. Details of measuring systems for specific industry applications in various fields.

4. Teaching methods:

Lectures. Laboratory Practice.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	20.00	Written part of the exam - tasks and theory	Yes	50.00
Project	Yes	30.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Tran Tien Lang	Electronics of Measuring Systems: Practical Implementation of Analogue and Digital Techniques	Wiley	1987
2,	Robert Pease	Troubleshooting analog circuits	Newnes	1991
3,	Lynn Lundquist	Industrial Electrical Troubleshooting	Delmar Cengage Learning	1999

Table 5.2 Course specification

Course:		
Course id:	AU511	**Adaptive and Advanced Control**
Number of ECTS:	6	

Teachers:	Rapaić R. Milan, Jeličić D. Zoran
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Acquisition of theoretical and practical fundamentals of linear regulator and estimator design, servo-regulators, adaptive and other modern control structures.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving concrete engineering problems and is a basis for further professional and scientific development.

3. Course content/structure:

Principles of state space regulator design. Principles of state and disturbance estimation. Structure of adaptive control systems. Direct and indirect adaptive control. Parameter estimation. Model reference adaptive control. Auto-tuning regulators and self-adaptive systems. Principles of predictive control.

4. Teaching methods:

Lectures, numerical calculation practice, computer practice classes, laboratory practice, consultations.

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,	K. Astrom, B. Wittemark	Adaptive Control (2nd Edition)	Adison Wesly	1995
2,	Goodwin G.C., Sin K.S.	Adaptive Filtering Prediction and Control.	Prentice-Hall	1984
3,	Clarke D.W., Mohtadi C., Tuffs P.S.	Generalized Predictive Control	O.U.E.L. Report No. 1555/84 & 1557/84.	1984
4,	William S. Levine	The Control Handbook	IEEE Press	1996
5,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice hall	1997
6,	Profesor	Štampani materijal koji pokriva pojedina izlaganja i vežbe		2005
7,	Profesor	Skripta za laboratorijske vežbe		2005

Table 5.2 Course specification

Course:		
Course id:	E2509	Protection and Recovery of Software Systems
Number of ECTS:	6	

Teacher:	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	None

1. Educational goal:

The objective of the course is to enable students to recognize the importance of complex software application, analysis, modeling and implementation of the authorization and protection mechanisms within complex software systems. Understanding the application of laws and regulations related to the protection and recovery of complex software systems.

2. Educational outcomes (acquired knowledge):

Identification, specification, modeling and implementation of protection and recovery mechanisms of complex software systems . After the exam has been taken and passed with success, students are able to design the mechanisms of protection and recovery within complex software systems and participate in the supervision and control of the computer system safety.

3. Course content/structure:

Terminology related to the protection, safety and security of software systems. Mechanisms and methods of authorization, protection and recovery of software systems. Modeling of protection mechanisms, design of protected software, dynamic configuration of software systems. Disaster recovery principles. Implementation of mechanisms of software protection and recovery. Standards and regulations in the domain of the protection of software systems. Discussing the responsibilities of all those involved in the process of the implementation of software protection and recovery.

4. Teaching methods:

The acquisition of knowledge happens gradually during the course and the students` work is evaluated through their achievement in a team project about the implementation of protection mechanisms within a chosen software system. The defense of team projects is public.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Lecture attendance	Yes	5.00			
Project	Yes	40.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Branko Perišić	Zaštita i oporavak softverskih sistema, u pripremi	Elektronsko izdanje-PDF,PPT	2007
2,	Jon Toigo	Disaster Recovery Planning: Strategies for Protecting Critical Information Assets, 2nd Edition		2000
3,	Steve McConnell	Code Complete, Second Edition	Microsoft Press	2004

Table 5.2 Course specification

Course:		Real Time Measurements			
Course id:	EIMRV1				
Number of ECTS:	6				
Teachers:		Mitrović Lj. Zoran, Sovilj M. Platon, Tomić J. Josif			
Course status:		Elective			

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

Precondition courses	None

1. Educational goal:

The acquisition of knowledge in the field of real-time measurement systems

2. Educational outcomes (acquired knowledge):

Ability to design and implement systems for real-time operation, especially real-time measurement systems.

3. Course content/structure:

The concept of operation in real-time, in extended real-time and beyond real time. Methods of providing operation in real-time. Designing systems to operate in real time. Analog and digital electronic circuits for use in real-time systems. Operating systems, processors and programmable logic circuits in the context of real-time systems. Oscillators and microcontrollers timer modules in the context of real-time systems. Multi-task modes. Processor communication and synchronization tasks. Development of microprocessor measurement and acquisition real-time systems based on PIC microcontroller families. Development of microprocessor measurement and acquisition real-time systems based on ARM microcontroller families. Development of microprocessor measurement and acquisition real-time systems based on AVR microcontroller families. Development of microprocessor measurement and acquisition real-time systems based on 8051 microcontroller families.

4. Teaching methods:

Lectures, auditory exercises, labaratory exercises, consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	20.00	Written part of the exam - tasks and theory	Yes	30.00
Project	Yes	30.00	Oral part of the exam	Yes	20.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Phillip A. Laplante	REAL-TIME SYSTEMS DESIGN AND ANALYSIS	IEEE, Inc. Press and JOHN WILEY & SONS, INC	2004

Table 5.2 Course specification

Course:		Investigation of electromagnetic fields		
Course id:	E1IEP			
Number of ECTS:	6			
Teacher:		Đurić M. Nikola		
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:

Investigations of electromagnetic (EM) fields are becoming more important and more necessary in an effort to assess the level of the EM field exposure of environment and population, in different situations. The objective of this curse is introduction and basic training of young colleagues in the field of investigation of the EM fields from a range of non-ionizing radiation. With presented overview and analysis of the EM field testing methodology, colleagues acquire new and deepen existing knowledge about testing methods, in order to expand the existing scientific knowledge about EM fields, about impact on nearby objects, about effects of exposure and potential unhealthy effects, as well as the necessity for prevention and protection from exposure to EM fields.

2. Educational outcomes (acquired knowledge):

The outcome of education of young colleagues is to acquire knowledge and skills, through independent and team work, to implement, improve and develop testing methodology in terms of modeling, calculation and measurement of the EM field level. The presented scientific and research activities in this area will help colleagues to expand the technological foundation of examination, collection and data processing. This raises the level of support to analysis and solution of problems in this area, and further open new opportunities for support to other experts, especially in the field of health care and epidemiological risk from potential unhealthy exposure to the EM fields. Through scientific and research work in this area, colleagues are able to make additional significant contribution to the future development and implementation of new technologies for continuous and systematic examination of the EM field.

3. Course content/structure:

This course is intended to present some existing knowledge in areas relevant to the investigation of electromagnetic fields. It is planned to cover the following areas: 1. selected chapters about theoretical analysis of EM fields, 2. calculation methodology, modeling and testing of EM fields • Analytical and numerical modeling methods and calculations • application of software tools for modeling and calculation (COMSOL, CST Studio ...), • measurement systems for measuring the levels of electromagnetic fields, • Information network for testing EM fields, 3. normative acts and regulations in the field of testing of electromagnetic fields, 4. selected chapters about uncertainty assessment for EM field measurements and 5. requirements of the relevant standards for electromagnetic field testing. It is planned that part of course takes place by engaging colleagues in independent study and research work in the subject area. This work would include active monitoring of primary scientific sources, organization and conduct experiments, as well as writing a scientific paper on this issue.

4. Teaching methods:

During the course the following methods apply: 1 lectures - presentation of the theoretical part is followed by examples, contributing to a better understanding and eventual clarification of certain parts of the material, 2 Consultation - besides lectures consultation are held regularly, 3 assistance with laboratory work and 4 study research – by studying scientific journals and other literature colleagues will be able to deepen by self the presented lectures. Working with their teacher colleagues are preparing to write a scientific papers.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Oral part of the exam	Yes	50.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Branko Popović	Elektromagnetika	Građevinska knjiga	1990
2,	Jean G. Van Bladel	Electromagnetic Fields – Second Edition	Wiley-IEEE Press	2007
3,	JCGM	Evaluation of measurement data — Guide to the expression of uncertainty in measurement	JCGM 100:2008	2008

Table 5.2 Course specification

Course:		Intelligent Control Systems			
Course id:	E2515				
Number of ECTS:	6				
Teachers:		Kulić J. Filip, Petrovački P. Dušan			
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 systems of automatic control based on computer intelligence methods.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving concrete engineering problems.

3. Course content/structure:

Application of artificial neural networks in the identification, diagnosis, prediction and control. Fuzzy systems in systems engineering. Neuro fuzzy systems: combining fuzzy logic and neural networks in control. Genetic algorithms in systems engineering. Design of classic and neuro fuzzy regulators using genetic algorithms. Support vector machines and their application in identification and control of systems.

4. Teaching methods:

Lectures. Computational and computer practice. Consultations. The exam is written and oral. Passing the written part is the prerequisite for the oral part. The final grade is formed on the bases of achievements at the colloquium, homework assignments and the quality of the written and oral part of the exam.

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,	V.Kecman	Learning and Soft Computing	MIT Press	2001
2,	S.M.Kartalopoulos	Understanding Neural Networks and Fuzzy Logic	IEEE Press	1996
3,	J.S.R.Jang; C.T.Sun; E.Mizutani	Neuro-Fuzzy and Soft Computing	Prentice Hall	1997
4,	R.L.Haupt; S.E.Haupt	Practical Genetic Algorithms	Wiley-Interscience	2004

Table 5.2 Course specification

Course:		Real-Time System Design			
Course id:	RT59				
Number of ECTS:	6				
Teachers:		Kukolj D. Dragan, Kovačević V. Jelena, 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		None			

1. Educational goal:

Students gain knowledge of the real time systems and are able to design and realize simple systems of this kind.

2. Educational outcomes (acquired knowledge):

Knowledge of the fundamental concepts, standards and technologies in this field as well as the ability to design and realize simple real time systems.

3. Course content/structure:

Introduction. Definition and classification of real time systems. Specific characteristics of real time systems. Interaction of real time systems with physical environment, process highway. Redundant and distributed system architecture in real time. Methods of verification and testing of real time systems. Expert real time systems, fuzzy control. Design of acquisition control systems (system configuration, applicative control for continuous and batch control ISA S-88 standard, simulation environment for development and testing application software). Design of control telecommunication networks. Systems for aircraft control in air traffic.

4. Teaching methods:

Lectures, tutorials, computer practice classes, consultations.
During the semester students attend lecture and 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,	Branislav Atlagić	PROJEKTOVANjE SISTEMA ZA RAD U REALNOM VREMENU, skripta			2005

Table 5.2 Course specification

Course:		Nonlinear Control Systems			
Course id:	AU509				
Number of ECTS:	6				
Teachers:		Petrovački Lj. Nebojša, Petrovački P. Dušan			
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 gain theoretical and practical knowledge about nonlinear control systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in solving practical engineering problems.

3. Course content/structure:

Introduction to nonlinear control systems. Nonlinearity characteristic of real systems. Phase diagram. Description functions. Nonlinear system stability. Linearization (trajectory linearization, feedback linearization) Design of nonlinear control systems (Lyapunov function, feedback linearization, Backstepping, Dynamic Inversion… Dynamic programming and optimal control).

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,	William S. Levine	The Control Handbook	IEEE Press	1996
2,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice hall	1997
3,	Profesor	Štampani materijal koji pokriva pojedina izlaganja i vežbe		2005
4,	Profesor	Skripta za labaratorijske vežbe		2005

Table 5.2 Course specification

Course:		
Course id:	E2517	**Database Management Systems**
Number of ECTS:	6	
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	None

1. Educational goal:

Advanced education of students in the field of Database Management Systems (DBMS) applications, and database (DB) administration, with the possibility of their easy involvement in industry projects in the field of database system development.

2. Educational outcomes (acquired knowledge):

Acquiring of skills and knowledge necessary for the application of DBMSs in practice and database administration.

3. Course content/structure:

Features and tasks of DBMSs. Physical architecture of a DBMS. Memory management in a DBMS. File management in a DBMS. Physical database organization and performance management. Techniques for the usage of views, sequence generators and indexes at the DB server. Advanced SQL capabilities for database updates and queries. Query optimizers. Mechanisms for providing DB security and safety. DB backup, restore and recovery. Implementation of distributed databases. Software tools for database administration.

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			
Presentation	Yes	10.00			
Term paper	Yes	20.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Date C. J.	An Introduction to Database Systems (8th Edition)	Addison Wesley	2004
2,	Ramakrishnan R., Gehrke J.	Database Management Systems	McGraw Hill, Inc.	2000
3,	Mogin P, Luković I, Govedarica M	Principi projektovanja baza podataka	FTN Izdavaštvo	2004
4,	Grupa autora	Priručnici za obezbeđenje administriranja izabranim SUBP		2005
5,	Bryla Bob, Loney Kevin	Oracle Database 11g DBA Handbook	Oracle Press	2007
6,	Ross Mistry	Microsoft SQL Server 2008 Management and Administration	Sams Publishing	2009

Table 5.2 Course specification

Course:		Software Standardization and Quality			
Course id:	E2522				
Number of ECTS:	6				
Teachers:		Perišić R. Branko, Sladić S. Goran, 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:
3	0	3	0		0

Precondition courses	None

1. Educational goal:

Acquiring basic knowledge in the field of software quality and standardization, as well as the knowledge about creation and the use of standards and technical regulations, and also certification of systems, processes and software products.

2. Educational outcomes (acquired knowledge):

The need for the creation and the use of standards and quality metrics. Ability to design and establish standardization of software systems. Ability to manage software standardization. Licencing and certification of software system, processes and products.

3. Course content/structure:

The concept of software standardization and quality metrics. Goals and principles of software standardization and quality assurance. Basic parameters of software systems standardization and quality. Models of the software systems standardization and quality.

4. Teaching methods:

Lectures; Consultations.Software project.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	20.00
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	20.00
Project	Yes	40.00			
Term paper	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Mile Pešaljević	Inženjerske komunikacije i logistika	FTN Novi Sad	1995
2,	G.Gordon Schulmeyer (Editor)	Handbook of Software Quality Assurance	Artech House	2007
3,	Michael West	Real Process Improvement Using the CMMI	Software Engineering Institute	2008

Table 5.2 Course specification

Course:		
Course id:	E2529	**Parallel and distributed architectures**
Number of ECTS:	6	

Teacher:	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	3	0	0

Precondition courses	None

1. Educational goal:

Prepartion of students to use parallel and distributred compter architectures.

2. Educational outcomes (acquired knowledge):

Ability of students to use parallel and distributed computer architectures.

3. Course content/structure:

Parallelism classification. Parallelism abstractions. Parallelism expression ways and tools. Parallel and distributed computer architecture case studies and their programming characteristics.

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,	G.R. ANDREWS	Foundation of Multithreaded, Parallel and Distributed Programming	Addison-Wesley	2000
2,	Y. C. Lin, L. Snyder	Principles of parallel programming	Pearson/Addison-Wesley	2008

Table 5.2 Course specification

Course:		Domain-Specific Languages
Course id:	E2519	
Number of ECTS:	6	

Teachers:	Dejanović R. Igor, Milanović N. Nikola
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

To teach students to design and implement software languages intended to be used in the specific domains (Domain-Specific Language – DSL) by using modern methods, techniques and tools.

2. Educational outcomes (acquired knowledge):

After successfully completing the course the student is able to: understand and effectively utilize the terminology and concepts of the subject area, apply methods and techniques for designing and implementing domain-specific languages??, identify the advantages and disadvantages of various tools for creating domain-specific languages??, analyze arbitrary domain of human activity and recognize the most important concepts and their interdependencies, based on analysis of the domain creates the abstract syntax of the DSL; utilize techniques to create different concrete syntax (graphical, textual, based on tables, dialogs, trees, etc..), identify the most appropriate syntax and implement it using the available tools, understand the impact of cultural and sociological profile of the user to the understandability of the concrete syntax, creates concrete syntaxes of a high degree of usability and readability by using knowledge about the human cognitive abilities.

3. Course content/structure:

Theoretical lectures: Basic definitions and concepts; difference between a General Purpose Language (GPL) and Domain Specific Language (DSL). External and internal DSLs. DSL as a set of coordinated models. History and development of DSLs; Traditional and modern notions of DSLs; Impact of DSL usage on productivity. Language Workbenches. Examples of DSLs. Domain analisys. Communication with domain experts; Techniques of recognition of key concepts from the domain description. Techniques of detecting the concepts relations. Abstract syntaxes, abstract syntax definition techniques, meta-modeling. Languages ??for meta-models definition (MOF, ECore, GOPPRR, MoRP). Concrete syntaxes, concrete syntax definition, concrete syntaxes as the interfaces with the user, textual concrete syntaxes (EBNF, Xtext, Emfatic); graphical concrete syntaxes (GMF, Graphite, Spray, Eugenio); automated layouting; Language expressions definition using wizards; Tree-based syntaxes; table-based syntaxes; hybrid syntaxes, cultural and social aspects of creating highly usable and readable concrete syntax; framework of cognitive dimensions and impact of human cognitive abilities on the readability of language expressions. Secondary notation and its impact on the language expression comprehension. The semantics of the language; semantic constraints definition; semantic rules check. Interpreters; dynamic analysis and interpretation of language expression; optimization techniques. Translators - code generators; language expression analysis techniques and code generation for arbitrary target platform; Template engines. Coevolution of language; Horizontal and vertical coevolution; change propagation from higher to lower meta-level, propagation of changes within the same meta-level between the dependent statement. Practical classes: design and creation of DSL for a given domain. The division into project teams. Domain analysis. Extracting key concepts and their relationships. Creating language abstract sy

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 defence	Yes	50.00	Oral part of the exam	Yes	50.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Fowler, M.	Domain-Specific Languages	Addison-Wesley Professional	2010
2,	Parr, T.	Language Implementation Patterns: Create Your Own Domain-Specific and General Programming Languages	The Pragmatic Bookshelf	2009
3,	Kelly, S. & Tolvanen, J.-P.	Domain-Specific Modeling: Enabling Full Code Generation	Wiley-IEEE Computer Society Pr	2008
4,	Evans, E.	Domain-Driven Design: Tackling Complexity in the Heart of Software	Addison-Wesley Professional	2004
5,	Völter, M. & Stahl, T.	Model-Driven Software Development : Technology, Engineering, Management	John Wiley & Sons	2006
6,	Rubel, D.; Clayberg, E. & Wren, J.	The Eclipse Graphical Editing Framework (GEF)	Addison Wesley Professional	2011

Table 5.2 Course specification

Course:		Business Process Management			
Course id:	E2521				
Number of ECTS:	6				
Teachers:		Milosavljević P. Branko, Ivanović V. Dragan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
3	0	3	0		0
Precondition courses		None			

1. Educational goal:

Understanding the concepts and systems for managing business processes. Gaining the knowlegde and skills for design and implementation of business process management systems.

2. Educational outcomes (acquired knowledge):

Upon successful completion of the course students are able to apply the concepts of business process management in software systems design and implementation, to specify and implement business processes, and to analyze, simulate and improve them.

3. Course content/structure:

The notion of workflow and business processes. Petri-nets, graphical representation and mathematical model. Extensions of Petri-nets. Modeling business processes. Triggers. Managing resources. Workflow nalysis and verification. Workflow patterns. Workflow simulation and testing. Business process management systems. Tools for monitoring and administration of business processes. Standardization in workflow systems.

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	50.00	Oral part of the exam	Yes	50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	A.T.M. ter Hofstede, W.M.P. van der Aalst, M. Adams, N. Russell	Modern Business Process Automation: YAWL and its Support Environment		Springer	2009
2,	W.M.P. van der Aalst, C. Stahl	Modeling Business Processes: A Petri Net-Oriented Approach		MIT Press	2011
3,	W.M.P. van der Aalst	Process Mining: Discovery, Conformance and Enhancement of Business Processes		Springer	2011

Table 5.2 Course specification

Course:		
Course id: GIAU01		**Geosensor networks**
Number of ECTS: 6		
Teachers:	Petrovački Lj. Nebojša, Petrovački P. Dušan	
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 theoretical and practical facts about geosensor networks

2. Educational outcomes (acquired knowledge):

This knowlege used for solution of practical engineering problems

3. Course content/structure:

Geosensor networks types. Characteristics of geosensor networks (wireless communicattion protocols, network topology, data acquisition and processing). Types of geosensors and characteristics. Distributed data acquisition and processing, centralized and decentralized algorithms. Applications of geosensor networks, offline and online work, data protection.

4. Teaching methods:

Llectures, calculation, laboratory and computer-laboratory practice. Consultation. Tests and exams are oral and written. Test and the written part of the examination shall be in written form part of the final exam is oral. Exam score is based on the success of the tests, and the final written exam.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	30.00	Theoretical part of the exam	Yes	40.00
Project task	Yes	30.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Anthony Stefanidis, Silvia Nittel (editors)	"GeoSensor Networks"	CRC Press, USA	2004
2,	C. S. Raghavendra, K. M. Sivalingam, T. Znati	Wireless sensor networks	Kluwer academic publishers	2004
3,	Lj. Gavrilovska, S. Krco, V. Milutinović, I. Stojmenović, R. Trobec	Application and Multidisciplinary Aspects of Wireless Sensor Networks	Springer-Verlag, London	2011
4,	I. Stojmenović (editor)	Handbook of Sensor Networks - Algorithms and Arhitectures	Willey and Sons, New Jersey	2005
5,	D. Wagner, R. Wattenhofer (editors)	Algorithms for Sensor and Ad Hoc Networks	Springer-Verlag, Berlin	2007
6,	C. Cordeiro, D. Agrawal	Ad Hoc and Sensor Networks	World Scientific Publishing, Singapore	2006

Table 5.2 Course specification

Course:		
Course id:	MR0SPM	**Stručna praksa**
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:

2. Educational outcomes (acquired knowledge):

3. Course content/structure:

4. Teaching methods:

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points

Literature				
Ord.	Author	Title	Publisher	Year

Table 5.2 Course specification

Course:		Studijsko istraživački rad na teorijskim osnovama diplomskog master rada			
Course id:	MR0SIR				
Number of ECTS:	9				
Teachers:					
Course status:		Mandatory			

Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
0	0	0	9		0

Precondition courses	None

1. Educational goal:

2. Educational outcomes (acquired knowledge):

3. Course content/structure:

4. Teaching methods:

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Literature					
Ord.	Author		Title	Publisher	Year

Table 5.2 Course specification

Course:		
Course id:	MR0ZMR	Izrada i odbrana master rada
Number of ECTS:	15	
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	8

Precondition courses	None

1. Educational goal:

Students acquire the knowledge about the techniques, structure and form of writing a research report after completing analysis and other activities conducted within the given topic of the master thesis. By writing a master thesis students gain the experience of writing papers which require the description of the problem, the methods and procedures in conducting research and the obtained results. In addition, preparation and defence of master thesis has the goal of developing the students` ability to prepare the results of their individual form and present it in a suitable form to a wider audience as well as respond to comments and questions related to the thesis topic.

2. Educational outcomes (acquired knowledge):

Students are able to develop a systematic approach to the given problem, conduct analysis, apply the acquired knowledge and gain knowledge in other areas for the purpose of finding a solution to the given problem. By working independently on solving the given tasks, students gain awareness of the complexity of the problem in their professional field. By working on the master thesis students gain experience which they can use in practice when solving the problems in their professional field. In preparation for defending their results in public and answering the questions and comments of the thesis committee, the student attains the necessary practical experience on how to present the results of their individual or collective work before an audience.

3. Course content/structure:

The content is defined individually, in accordance with the needs and field to be covered by the master thesis. In consultation with the supervisor the student produces the master thesis in written form according to the rules of the Faculty of Technical Sciences. After preparation the student defends the thesis in public as arranged with the thesis supervisor and in accordance with the prescribed rules and procedures.

4. Teaching methods:

During the preparation of the master thesis the student consults with the thesis supervisor, and, if necessary, other professors who work in the area covered by the master thesis. The students writes the paper and, having obtained the approval of the thesis committee, provides them with bound copies of the work. The master thesis is defended in public, and the student is obliged to answer the questions and comments after the oral presentation.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points

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, the Measurement 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.

The Measurement and Control Engineering study programme is comparable and coordinated with:

1. Vienna University of Technology, Vienna, Austria
(web site: www.tuwien.ac.at/tu_vienna/)
2. Faculty of Electrical Enginering and Information Technology, University of Hannover, Germany
(web site: http://www.et-inf.uni-hannover.de/index.php?id=english-information)
3. Faculty of Electrical Enginering, Graz University of Technology, Graz, Austria
(web site: http://portal.tugraz.at/portal/page?_pageid=75,2344042&_dad=portal&_schema=PORTAL)
4. http://esn.aau.dk/masters/?L=2
5. http://www.htwk-leipzig.de/english/fbeitenglish/eitmeng.html
6. http://www.eng.ucy.ac.cy/ECE/en/postgraduate/msprograms.html
7. http://www.it.uu.se/grad/areas
8. http://www.k.dendai.ac.jp/intro/html.en</eng>

Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with social demands and its resources, enrols to undergraduate academic studies of Measurement 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 Book of Rules on Enrolment of Students to Study Programmes.

Students from other study programmes and persons who have completed studies can enrol into this study programme. The committee for evaluation (formed by all department heads participating in the realization of the study programme) evaluate all the passed examinations of the candidates and based on the accepted number of points determine the year of studies the candidate can enrol to. The previously passed exam activities can be accepted completely, partially (committee can require a suitable addition) or can be considered inadequate.

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 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 prerequisites 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 duties 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.

Standard 09. Teaching Staff

For the realization of the Measurement and Control Engineering study programme, there is the faculty staff with necessary scientific, artistic 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. Of the total number of teachers more than 95% are employed full time. the number of assistant 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.

All information regarding the teaching staff and assistants (CV, appointments, references) are available to public.

Special attention in this study programme is payed to professional development, promotion and development of teaching staff through participation in national and international symposiums and seminars in order to enhance their knowledge and to improve practices used in teaching.

Science, arts and professional qualifications

Name and last name:	Bajović M. Vera
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	16.02.1977
Scientific or art field:	Theoretical Electrotechnics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Theoretical Electrotechnics
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1974	Faculty of Technical Sciences - Priština	Electroenergetics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EOS01	Fundamental electrical engineering	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	ETI04	Fundamentals of Electrical Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE208S	Selected Chapters on Electromagnetic Compatibility	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Bajovoć Vera: "Ekstrakcija obeležja za automatsku izgradnju stabala odlučivanja u tehničoj dijagnostici sa nedovoljnom apriornom informacijom", Fakultet tehničkih nauka u Novom Sadu, 1994.
2.	Neda Pekarić-Nađ, Vera Bajović: "Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike", Građevinska knjiga, Beograd, 1987.
3.	Bojković Gordana, Bajović Vera: The impact of process measurement on industrial diagnostics, Facta Universitatis, Electronics and Energetics, vol. 13, No.2, pp. 143-155, August 2000.
4.	Kasaš-Lažetić K., Prša M., Bajović V., Đurić N.: Verification of the Earth Return Impedance , 5. PSU-UNS International Conference: Energy and the Environment, Phuket, 2-3 Maj, 2011
5.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1
6.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Information Network for EMF Monitoring in Power System, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978-86-7892-355-5
7.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04
8.	Kasaš-Lažetić K., Prša M., Bajović V., Vukobratović B.: Determination of ACSR's Electrical Characteristics, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, pp. 1-4, ISBN 978-86-6125-042-2
9.	Prša M., Kasaš-Lažetić K., Bajović V.: Determination of Earth Impedance, PSU-UNS International Conference on Engineering and Environment – ICEE - 2007, Phuket, Thailand: Faculty of engineering, Prince Songkla University, 10. i 11. Maj, 2007, pp. 240-726 -240-729.

Representative refferences (minimum 5, not more than 10)				
10.	Bajović Vera, Bojković Gordana: Inductive Learning Based Framework For Diagnostic System Building, 3rd International Symposium Interdisciplinary Regional Research, Novi Sad, FR Yugoslavia, September, 1998, pp. 21-23.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Čapko Lj. Darko
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	25.01.1999
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(H00) Mechatronics, Undergraduate Academic Studies
3.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ESI013	Multi-tier applications development in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
8.	SEAU09	Software design of SCADA systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
11.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
12.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI034	Multi-tier applications development in Smart Grids	(ES0) Power Software Engineering, Master Academic Studies
15.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

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

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT3A	Metodologije i sistemi za upravljanje IT resursima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT48	Tehnologije i sistemi za podršku korisnicima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	SES202	Model Driven Software Development	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SES204	Advanced Programming Tecnics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	E2510	Software Configuration Management	(E20) Computing and Control Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

	ID	Course name	Study programme name, study type
		List of courses being held by the teacher in the accredited study programmes	
13.	E2519	Domain-Specific Languages	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Gordana Milosavljević, Igor Dejanović, Branko Perišić: Brz razvoj adaptivnih poslovnih informacionih sistema, Yu Info, Kopaonik: 11-14 mart, 2007

2. *****Dejanović I., Perišić B., Milosavljević G.: Implementacija XText DSL-a uz oslonac na arpeggio parser, YU Info 2011 (CD), 6 pages

3. Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24

4. Milosavljević G., Dejanović I., Perišić B., Milosavljević B.:   UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94

5. *****Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf

6. Dejanović I., Perišić B., Milosavljević G.: Arpeggio: pakrat parser interpreter, 16. YU INFO, Kopaonik, 1-8 Mart, 2010

7. Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: Primena savremenih tehnika razvoja softvera u izradi studentskih projekata, 15. YU INFO, Kopaonik, 1-8 Mart, 2009

8. Dejanović I., Milosavljević G., Perišić B.: Uporedni prikaz dva popularna MDSD/MDA alata otvorenog koda , 13. YU INFO, Kopaonik, 1-8 Mart, 2005

9. Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214

10. Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

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

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

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Theoretical Electrotechnics
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E216	Fundamentals of Electrical Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	EE300	Electromagnetics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	H104	Fundamentals of Electrical Engineering 1	(H00) Mechatronics, Undergraduate Academic Studies
4.	H108	Fundamentals of Electrical Engineering 2	(H00) Mechatronics, Undergraduate Academic Studies
5.	M112	Electrical Engineering and Electric Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	E105	Fundamentals of Electrical Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	E110	Fundamentals of Electrical Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI94	Fundamentals of Electrical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	DE416S	Investigation of electromagnetic fields	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE517S	Technology of magnetic and optical data storage	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE543	Electro Magnetic Energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E1IEP	Investigation of electromagnetic fields	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
14.	H845	Motion control	(H00) Mechatronics, Master Academic Studies
			(I10) Industrial Engineering, Master Academic Studies
15.	DE416	Investigation of electromagnetic fields	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Đurić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499
2.	Đurić S., Nađ L., Damnjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362
3.	Đurić N., Kavecan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference on Advances in Future Internet - AFIN, Rim, 19-24 Avgust, 2012, pp. 55-59, ISBN 978-1-61208-211-0 (Best paper award)
4.	Đurić N., Kavečan N., Kljajić D.: The EM Field Register of the SEMONT Broadband Monitoring Network, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012, pp. 27-30, ISBN 978-1-4673-4748-8
5.	Đurić N., Šenk V.: The MAP Implementation in Logic Circuits for Soft-decision Decoding of MTR Codes, 6. European Modeling Symposium - EMS, Malta, 14-16 Novembar, 2012, pp. 201-206, ISBN 978-0-7695-4926-2/12
6.	Đurić N., Prša M., Kasaš-Lažetić K.: Information Network for Continuous Electromagnetic Fields Monitoring, International Journal of Emerging Sciences - IJES, 2011, Vol. 1, No 4, pp. 516-525, ISSN 2222-4254
7.	Vukobratović B., Đurić N.: Monitoring of EMF with SEMONT system, 6. International PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields – CEMBEF, Novi Sad, 28-30 Jun, 2012, pp. 63-66, ISBN 978-86-7892-410-1
8.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04
9.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1
10.	Đurić N., Šenk V., Vasić B.: MAP Decoding of MTR Codes in Multiple-Head Magnetic Recording Systems, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 164-167, ISBN 978-1-4577-2018-5

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

Name and last name:	Erdeljan M. Aleksandar
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.07.1989
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011		Automatic Control and System Engineering
PhD thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1993	School of Electrical Engineering - Beograd	Automatic Control and System Engineering
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
5.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	ESI001	Software Tools in Power Engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	ESI010	Basics of control in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ESI015	Distributed Computer Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
10.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU09	Software design of SCADA systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SEI002	Architecture of Distributed Systems in Power Systems	(ES0) Power Software Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
13.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
15.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
17.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
18.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
19.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
21.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
22.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
23.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
24.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221

2. Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883

3. Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215

4. Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836

5. Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215

6. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445

7. Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X

8. Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X

9. Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456

10. Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8

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

Quotation total :	1		
Total of SCI(SSCI) list papers :	9		
Current projects :	Domestic :	3	International :	0

Science, arts and professional qualifications

Name and last name:	Hajduković P. Miroslav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.07.1993
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1984	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1980	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1977	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EE301	Operating Systems and Competitive Programming	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	E2529	Parallel and distributed architectures	(E20) Computing and Control Engineering, Master Academic Studies
			(ES0) Power Software Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Hajduković M., "Programski jezik CONCERT", Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.

	Representative refferences (minimum 5, not more than 10)
2.	Hajduković M., "Organizacija računara", Pomoćni udžbenik, Fakultet tehničkih nauka, 1996.
3.	Hajduković M., Suvajdžin Z., "Uvod u međunarodni standard IEC 61131-3", Pomoćni udžbenik, Fakultet tehničkih nauka, 2002.
4.	Hajduković M., "Operativni sistemi", Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
5.	Hajduković M., "Arhitektura računara", Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
6.	Hajduković M. i ostali, "The active side principle approach to the client server protocol design", YUJOR, vol. 6, no. 1, Belgrade, 1996., 121- 127
7.	Hajduković M. i ostali, "Uninterruptable and other regions", YUJOR, vol. 8, no. 2, Belgrade, 1998., 323- 329
8.	Hajduković M. i ostali, "Communication models: an educational framework for parallel programming", YUJOR, vol. 9, no. 1, Belgrade, 1999., 129- 139
9.	Hajduković M. između ostalih, "Character oriented program editing – habit or necessity?", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 53- 65
10.	Hajduković M. između ostalih, "A problem of program execution time measurement", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 67- 73

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	11			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Ivanović V. Dragan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.2007
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2006	Faculty of Technical Sciences - Novi Sad	Informatics
Magister thesis	-		Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E2E40	XML and WEB Services	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GG11	Fundamentals in Computing	(G00) Civil Engineering, Undergraduate Academic Studies
3.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT32	Technologies and platforms for digital contents and documents management	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	E2507	Digital Archives	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

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

	ID	Course name	Study programme name, study type
11.	E2521	Business Process Management	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E2525	Contemporary educational technologies and standards	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
15.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies
16.	DRNI13	Selected Topics in Scientific-research Activity managament	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Ivanović, D., Surla, D. & Racković, M. (2010), "A CERIF data model extension for evaluation and quantitative expression of scientific research results", Scientometrics, DOI 10.1007/s11192-010-0228-2, Vol. 86, No. 1, pp. 155-172

2. Ivanovic, L., Ivanovic, D., Surla, D. (2012), "A data model of theses and dissertations compatible with CERIF, Dublin Core and EDT-MS", Online Information Review, Vol. 36, No. 4, pp. 568-586

3. Ivanović, D., Milosavljević, G., Milosavljević, B. & Surla, D. (2010), "A CERIF-compatible research management system based on the MARC 21 format", Program: Electronic libarary and information systems, DOI: 10.1108/00330331011064249, Vol. 44, No. 3, pp. 229-251

4. Ivanović, D., Surla, D. & Konjović, Z. (2010), "CERIF compatible data model based on MARC 21 format", The Electronic Library, DOI: 10.1108/02640471111111433, Vol. 29, No. 1, pp. 52-70

5. Milosavljević, G., Ivanović, D., Surla, D. & Milosavljević, B. (2010), "Automated Construction of the User Interface for a CERIF-Compliant Research Management System", The Electronic Library, Vol. 29, No 5, pp. 565-588

6. Kovacevic, A., Ivanovic, D., Milosavljevic, B., Konjovic, Z., Surla, D. (2011), "Automatic extraction of metadata from scientific publications for CRIS systems", Program: electronic library and information systems, Vol. 45, No. 4, pp.376 – 396, DOI: 10.1108/00330331111182094

7. Ivanović, L., Ivanović, D., Surla, D. (2012), Integration of a Research Management System and an OAI-PMH Compatible ETDs Repository at the University of Novi Sad, Republic of Serbia, Library resources and Technical services, Vol. 56, No. 2, pp. 104-112

8. Ivanović D., Surla D., Racković M.: Journal evaluation based on bibliometric indicators and the CERIF data model, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 791-811, ISSN 1820-0214

9. Informacioni sistem naučno-istraživačke delatnosti

10. Ivanović D.: Sistemi za skladištenje naučnih sadržaja, Zadužbina Andrejević, 2011, ISBN 978-86-7244-916-7

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

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

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	F404	Modelling, Simulation and Control	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
7.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
8.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E2316	Real-time control systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
11.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
13.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
16.	DAU005	Selected Chapters in Optimization Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Kovačević V. Jelena
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1999
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2010		Computer Engineering and Computer Communication
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	RT44	DSP Architecture and Algorithms 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	RT46	DSP Architecture and Algorithms 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	RT52	Dedicated Computer Structure Design 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	IGB340	Fundamentals of Engineering Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	EK465	Architectures of digital signal processors	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	RT59	Real-Time System Design	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT06	Selected chapters on DSP systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

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

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

Science, arts and professional qualifications

Name and last name:	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 carieer	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 refferences (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.	D. Kukolj et al., Determining Topological Changes And Critical Load Levels Of A Power System By Means Of Artificial Neural Networks, Electric Machines and Power Systems, Vol.25, No.8, Oct. 1997, pp. 917-926.
10.	D. Kukolj, et al., Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, ETEP -European Transactions on Electrical Power Engineering. Vol.8, No.3, May-June 1998, pp. 207-212.

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

Science, arts and professional qualifications

Name and last name:	Kulić J. Filip
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1994
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	AU44	Control Systems Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(H00) Mechatronics, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E238A	Control Systems Technology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	EEI302	Systems of Automatic Control in Power Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
7.	M325	Automatic Control Systems	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
8.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2315	Electrical Machines in Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EMSAU 1	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
13.	DE410S	Selected Topics in the Field of Automatic Control	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies

	ID	Course name	Study programme name, study type
14.	E2515	Intelligent Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	M2550	Automatic Control Systems in Motor Vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies
16.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies
17.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
18.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies
19.	DE410	Selected Topics in the Field of Automatic Control	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	SID04	Current State in the Field	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies
21.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
22.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Dragan Kukolj, Vesna Bengin, Filip Kulić: Osnovi klasične teorije automatskog upravljanja kroz rešene probleme, Sombor, Somel, 1995. 241str., UDK: 681.5(075.8),
2.	Dragan Kukolj, Filip Kulić: Projektovanje sistema automatskog upravljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka, 1995. 232str., UDK: 681.5(075.8),
3.	D.Kukolj, F.Kulić, E.Levi: Design Of The Speed Controller For Sensorless Electric Drives Based On AI Techniques: A Comparative Study, Artificial Intelligence in Engineering, 2000, Vol. 14, str. 165- 174
4.	D.Kukolj, S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, Wide Range Fuzzy Logic Controller, Fuzzy Sets and Systems, 2001, Vol. 120, No. 1, str. 17- 34
5.	D.Kukolj, F.Kulić, D.Popović, Z.Gorečan: Determining Topological Changes and Critical Load Levels of a Power System by Means of Artificial Neural Network, Electric Machines and Power Systems, 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.
6.	D.Kukolj, D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, European Transactions on Electrical Power (ETEP), 1998, Vol. 8, No. 3, str. 207- 212, ISSN 1430-144X.
7.	D.Popović, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Stability Margins Using Artificial Neural Networks with a Reduced Input Set, IEE Proc. -Gener. Transm. Distrib, 1998, Vol. 145, No. 4, str. 355- 362, ISSN 1350-2360.

Representative refferences (minimum 5, not more than 10)					
8.	Matić Dragan, Kulić Filip, Pineda-Sanchez Manuel, Kamenko Ilija: "Support vector machine classifier for diagnosis in electrical machines: Application to broken bar", Expert Systems With Applications, vol.39 br.10, str. 8681-8689, 2012.				
9.	Čongradac Velimir, Kulić Filip: "Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation", Energy and Buildings, vol. 47, str. 651-658; April 2012.				
10.	Ilić Slobodan; Vukmirović Srđan; Erdeljan Aleksandar; Kulić Filip: "Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, vol.16, br. , str. S215-S224, 2012				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :	32				
Total of SCI(SSCI) list papers :	12				
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1. Vukelić Đ., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič J., Simeunović N.: Machining fixture assembly/disassembly in RFID environment, Assembly Automation, 2011, Vol. 31, No 1, pp. 62-68, ISSN 0144-5154

2. Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M. : IML Robot Grasping Process Improvement (Article in press, Date of acceptance 14. March 2010), Iranian Journal of Science & Technology, Transactions B, 2011, ISSN 1028-6284

3. Ostojić G., Lazarević M., Stankovski S., Ćosić I. : RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, Broj 11, str. 759-767, ISSN 0039- 2480, UDK: 658.5

4. Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R. : RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, Broj 4, str. 364-370, ISSN 0144-5154

5. Lazarević M., Ostojić G., Ćosić I., Stankovski S., Vukelić Đ., Zečević I.: Product lifecycle management (PLM) methodology for product tracking based on radio-frequency identification (RFID) technology, Scientific Research and Essays, 2011, Vol. 6, No 22, pp. 4776-4787, ISSN 1992-2248

6. Ostojić G., Stankovski S., Vukelić Đ., Lazarević M., Hodolič J., Tadić B., Odri S.: Implementation of automatic identification technology in a process of fixture assembly/disassembly, Strojniški vestnik - Journal of Mechanical Engineering, 2011, Vol. 57, No 11, pp. 819-825, ISSN 0039-2480

7. Lazarević M., Ostojić G., Stankovski S., Ćosić I.: Postupak upravljanja proizvodom u celokupnom životnom veku korišćenjem RFID taga, Broj priznatog patenta: 51796, datum priznavanja 24.10.2011. godine., 2011

8. Vukelić Đ., Tadić B., Hodolič J., Budak I., Lazarević M.: Development an expert system for machining fixture design, 10. International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI, Banja Luka: Faculty of Mechanical Engineering, 26-28 Maj, 2011, pp. 303-308, ISBN 978-99938-39-36-1

9. Rakić-Skoković M., Ostojić G., Lazarević M., Stankovski S.: Chapter 18: Improving Business Ptrocesses With RFID Technology, 2009, str. 161-168, ISBN 978-3-901509-69-8

10. Suzić N., Lazarević M., Sremčev N.: Design for Product Variety, 6. Simpozijum o konstruisanju, oblikovanju i dizajnu – KOD, Palić: Fakultet tehničkih nauka, 29-30 Septembar, 2010, pp. 219-222, ISBN 978-86-7892-278-7

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

Quotation total :	11		
Total of SCI(SSCI) list papers :	6		
Current projects :	Domestic :	4	International :	3

Science, arts and professional qualifications

Name and last name:	Leber J. Marjan
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Proizvodni sistemi, organizacija i menadžment-projektovanje proizvodnih

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Proizvodni sistemi, organizacija i menadžment-projektovanje proizvodnih sistema
PhD thesis	2003	University of Maribor - Maribor	Production Systems, Organization and Management
Magister thesis	1993	University of Maribor - Maribor	Production Systems, Organization and Management
Bachelor's thesis	1982	University of Maribor - Maribor	Mechanical Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	IM1039	Fundamentals of Operations management	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
2.	IM1119	Product management at end of life	(I20) Engineering Management, Undergraduate Academic Studies
3.	ZR401A	Science on Work	(Z01) Safety at Work, Undergraduate Academic Studies
4.	EI504	Management of Small and Medium Enterprises	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
5.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
6.	IM2102	Manufacturing strategy (KAIZEN, LEAN, KANBAN, EFPS)	(I10) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
7.	IM2222	Managing Innovation Projects	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
8.	IM2315	Product and Process Improvement Projects	(I20) Engineering Management, Master Academic Studies
9.	IM2316	Theory of Constraints	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
10.	IM2319	Project evaluation	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
11.	IM2922	eHRM	(I20) Engineering Management, Master Academic Studies
12.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies
13.	ZRD28A	Selected topics in the science of occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	POLAJNAR, Andrej, LEBER, Marjan, VUJICA-HERZOG, Nataša. Muscular-skeletal diseases require scientifically designed sewing workstations. Stroj. vestn., 2010, vol. 56, no. 1, str. 31-40. http://sl.sv-jme.eu/scripts/download.php?file=/data/upload/2010/01/ 4_2008_118_Polajnar_zl.pdf. [COBISS.SI-ID 13950486]
2.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Analysis of different transport solutions in the flexible manufacturing cell by using computer simulation. Int. j. oper. prod. manage., 1995, let. 15, št. 6, str. 51-58. [COBISS.SI-ID 7611908]
3.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Racionalizacija v serijski proizvodnji po načelih tipske tehnologije = Rationalization of series production by applying the principles of type technology. Stroj. vestn., 1995, let. 41, št. 7/8, str. 263-270. [COBISS.SI-ID 7901444]

	Representative refferences (minimum 5, not more than 10)
4.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Načrtovanje zanesljivosti izdelkov in proizvodnih sistemov z upoštevanjem analize mogočih napak in njihovih posledic = Planning of product reliability and production systems by using failure modes and effects analysis. Stroj. vestn., 1994, let. 40, št. 9/10, str. 333-338. [COBISS.SI-ID 6902532]
5.	KALPIČ, Branko, POLAJNAR, Andrej, LEBER, Marjan, BUCHMEISTER, Borut. Navidezna resničnost - simulirno orodje prihodnosti = Virtual reality - simulation tool of the future. Stroj. vestn., 1998, let. 44, št. 5/6, str. 187-194. [COBISS.SI-ID 2631963]
6.	BUCHMEISTER, Borut, LEBER, Marjan, PAVLINJEK, Jože. Impact of periodic changing demand to supply chain inventories. Mech. Eng. Sci. J. (Skopje), 2007, vol. 26, no. 2, str. 79-86. [COBISS.SI-ID 12189974]
7.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Successful FMEA study based on QFD analysis. Acta Mech. Slovaca (Košice), 2002, ročnik 6, 2, str. 187-190. [COBISS.SI-ID 7165206]
8.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Simulationsvergleich von Modellen für die Layoutplannung. E I, Elektrotech. Inf.tech., 111 (1994), 6 ; str. 277-279. [COBISS.SI-ID 6328580]
9.	LEBER, Marjan, POLAJNAR, Andrej, BUCHMEISTER, Borut. Qualitätssicherung der Produktionsplannung durch Anwendung der Fehlermöglichkeits- und Einflussanalyse. E I, Elektrotech. Inf.tech., 111 (1994), 6 ; str. 324-327. [COBISS.SI-ID 6328836]
10.	FULDER, Tatjana, PIŽMOHT, Petja, POLAJNAR, Andrej, LEBER, Marjan. Ergonomically designed workstation based on simulation of worker's movements. Int. j. simul. model., Mar. 2005, vol. 4, no. 1, str. 27-34. [COBISS.SI-ID 9448214]

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Lendak I. Imre
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2005
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	ESI003	Electric power software development	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	ESI011	Software security and safety in power engineering	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	ESI016	Smart Grid Programming	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI017	Mobile computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies
11.	BMIM3D	Development of integrated biomedical systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
13.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	ESI033	Advanced Power Grid Communication Protocols	(ES0) Power Software Engineering, Master Academic Studies

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

Representative refferences (minimum 5, not more than 10)	
1.	Lendak I., Erdeljan A. & Popović D. (2011), „Algorithm for cataloguing topologies in the Common Information Model (CIM)", Computers and mathematics with applications, February 2011, vol 61 (3), pp. 715-721. DOI 10.1016/j.camwa.2010.12.021
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), „Optimization of workflow scheduling in Utility Management System with hierarchical neural network", International Journal of Computational Intelligence Systems, 2011, vol 4 (4), pp. 672-679.
3.	Lendak I., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdeljan A. (2012), "Client Side Internet Technologies in Critical Infrastructure Systems", International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.
4.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), „Unifying the Common Information Model (CIM)", Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, 2012, vol 57 (3), pp. 301-310.
5.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), "Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks", Journal of Applied Research and Technology, 2012, vol 10 (2), pp. 114-121.
6.	Čapko D., Erdeljan A., Vukmirović S. & Lendak I. (2011), „A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems", Information Technology and Control, 2011, vol 40 (4), pp. 316-322.
7.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2011), „Extension of the Common Information Model with Virtual Meter", Electronics and electrical engineering, ISSN 1392 – 1215, 2011, vol 1 (111), pp. 59-64.
8.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A novel software architecture for smart metering systems", Journal of Scientific & Industrial Research, December 2010, vol 69, pp. 937-941.
9.	Nedić N., Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), „A genetic algorithm approach for utility management system workflow scheduling", Information technology and control, 2010, vol 39 (4), pp. 310-319.
10.	Erdeljan A., Lendak I., Vukmirović S. & Čapko D. (2007), „Otvorena softverska arhitektura za modeliranje, simulaciju i upravljanje distributivnim vodovodnim sistemima", Vodoprivreda, 2007, ISSN 0350-0519, vol 229-230, pp. 291-302.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	25			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1993	School of Electrical Engineering - Beograd	Applied Computer Science and Informatics
Bachelor's thesis	1990	Military-Technical Faculty - Zagreb	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E2I40	Database Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2I41	Information System Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
3.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	SE0013	Data Organization	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
11.	SE0016	Databases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	E2502	Data Warehouse Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
13.	E2517	Database Management Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	E2518	Software Based Business Process Modeling	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	E2530	Domain Specific Modeling and Languages	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DRNI04	Selected Topics in Database Management	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
19.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Luković I., Ivančević V., Čeliković M., Aleksić S.: DSLs in Action with Model Based Approaches to Information System Development, in the book: Formal and Practical Aspects of Domain-Specific Languages: Recent Developments; Chapter 17., IGI Global, USA, 2013, pp. 502-532, ISBN 978-1-4666-2092-6.

2. Luković I.: From the Synthesis Algorithm to the Model Driven Transformations in Database Design, 10. International Scientific Conference on Informatics, Herlany: Slovak Society for Applied Cybernetics and Informatics and Technical University of Košice - Faculty of Electrical Engineering and Informatics, 23-25 Novembar, 2009, pp. 9-18, ISBN 978-80-8086-126-1. (Invited paper).

3. Luković I.: Application of Information System Development Tools and Methods - Some Experiences from Industry and Research Projects in Serbia, 9. International Business Informatics Conference – Symposium on Business Informatics in Central and Eastern Europe, Vienna: Austrian Computer Society and University of Vienna, 25-27 Februar, 2009, pp. 119-128, ISBN 978-3-85403-242-7. (Invited paper).

4. Luković I: An Approach to Specification and Generation of Software Systems using Form Types, 2nd Conference on Compilers, Related Technologies and Applications (CoRTA 2008), July 11, 2008, Braganca, Portugal, Proceedings, Polytechnic Institute of Braganca, Portugal, ISBN: 978-972-745-096-1, pp. 4. (Invited talk).

5. Mogin P, Luković I, Govedarica M: Principi projektovanja baza podataka, II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, 2004, ISBN: 86-80249-81-5, 700 str.

6. Mogin P, Luković I: Principi baza podataka, Univerzitet u Novom Sadu, Fakultet tehničkih nauka i MP "Stylos", Novi Sad, 1996, 350 str.

7. Obrenović N., Aleksić S., Popović A., Luković I.: Transformations of Check Constraint PIM Specifications, COMPUTING AND INFORMATICS, SLOVAK ACADEMY OF SCIENCES, ISSN 1335-9150, 2012, Vol. 31, No. 5, pp. 1045-1079.

8. Luković I, Mogin P, Pavićević J, Ristić S, "An Approach to Developing Complex Database Schemas Using Form Types", Software: Practice and Experience, John Wiley & Sons Inc, Hoboken, USA, ISSN: 0038-0644, DOI: 10.1002/spe.820, Vol. 37, No. 15, 2007, pp. 1621-1656.

9. Luković I., Pereira Varanda M., Oliveira N., Cruz D., Henriques Rangel P.: A DSL for PIM Specifications: Design and Attribute Grammar based Implementation, Computer Science and Information Systems (ComSIS), ISSN 1820-0214, 2011, Vol. 8, No 2, pp. 379-403.

10. Čeliković M., Luković I., Aleksić S., Ivančević V.: A MOF based Meta-Model and a Concrete DSL Syntax of IIS*Case PIM Concepts, Computer Science and Information Sistems, ISSN 1820-0214, 2012, Vol. 9, No 3, pp. 1075-1103.

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

Quotation total :	22			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Marković -. Milan
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:			

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

	ID	Course name	Study programme name, study type
1.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
3.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

	ID	Course name	Study programme name, study type
10.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)			
Summary data for teacher's scientific or art and professional activity:			
Quotation total :			
Total of SCI(SSCI) list papers :			
Current projects :	Domestic :	International :	

Science, arts and professional qualifications

Name and last name:	Milanović N. Nikola
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003		Applied Computer Science and Informatics
Bachelor's thesis	1995		Applied Computer Science and Informatics
Magister thesis	-		Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	ISIT21	Internet mreže	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	ISIT2D	Web design	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	SE0008	Algorithms and Data structures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	SE0016	Databases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	SES102	NoSQL Data Bases	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SES201	Advanced Web Technologies	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES302	High Technology Management	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	E2506	Advanced Internet Infrastructure	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	E2513	Semantic Web	(E20) Computing and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

	ID	Course name	Study programme name, study type
11.	E2519	Domain-Specific Languages	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies

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

Representative refferences (minimum 5, not more than 10)

1.	N. Milanovic, M. Malek. Current Solutions for Web Service Composition. IEEE Internet Computing, 8(6):51-59, 2004. (SCI 11/86)
2.	N. Milanovic, M. Malek, A. Davidson, V. Milutinovic. Routing and Security in Mobile Ad Hoc Networks. IEEE Computer, 37(2):61-65, 2004. (SCI 16/86)
3.	N. Milanovic, M. Malek. Search Strategies for Automatic Web Service Composition. International Journal of Web Services Research, 3(2):1-32, 2006. (SCI 37/86)
4.	N. Milanovic, B. Milic. Automatic Generation of Service Availability Models. IEEE Transactions of Service Computing, 2010. 4(1):56-69 , 2011
5.	P. Ibach, N. Milanovic, J. Richling, V. Stantchev, A. Wiesner, Malek M. CERO: CE Robots Community. IEE Proceedings Software, Special Issue on Embedded Systems, 152(5):210-214, 2005. (SCI 71/86)

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

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

Science, arts and professional qualifications

Name and last name:	Milosavljević P. Branko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1998
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E2E40	XML and WEB Services	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2E41	E-Business Systems Security	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F209	Multimedia	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	F214I2	Raster Graphics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GI100	Computer Practicum	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	RI41	Internet Software Architectures	(E20) Computing and Control Engineering, Undergraduate Academic Studies
7.	SEI41	Internet Software Architectures	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	ISIT08	Object oriented programming fundamentals	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
11.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
12.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
13.	BMI95	Introduction to Computer Science	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
15.	SE0001	Introduction to Programming	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	E2506	Advanced Internet Infrastructure	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
18.	E2521	Business Process Management	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
19.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
20.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies
22.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
23.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies
24.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies
25.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
26.	FDS224	Selected Chapters in Programming	(F00) Graphic Engineering and Design, Doctoral Academic Studies
27.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Branko Milosavljević. Models for Extensible Multimedia Document Retrieval. In IEEE 6th International Symposium on Multimedia Software Engineering, Miami, FL, 2004.
2.	Branko Milosavljević, Milan Vidaković, Srđan Komazec, and Gordana Milosavljević. User Interface Code Generation for Data-Intensive Applications with EJB-Based Data Models. In Software Engineering Research and Practice (SERP"03), Las Vegas, NV 2003.
3.	Branko Milosavljević and Zora Konjović. Design of an XML-Based Extensible Multimedia Information Retrieval System. In IEEE Multimedia Software Engineering (MSE2002), Newport Beach, CA, 2002. pp. 114-121.
4.	G. Sladić, B. Milosavljević, Z. Konjović. Extensible Access Control Model for XML Document Collections, Intl. Conf. on Security and Cryptography ICETE-SECRYPT"07, Barcelona, Spain, 2007.
5.	Branko Milosavljević, Milan Vidaković, and Zora Konjović. Automatic code generation for database-oriented web applications. In James Power and John Waldron, editors, Recent Advances in Java Technology: Theory, Application, Implementation, pages 89-98. Trinity College Dublin, 2003.

	Representative refferences (minimum 5, not more than 10)				
6.	Danijela Tešendić, Branko Milosavljević, and Dušan Surla. A library circulation system for city and special libraries. The Electronic Library, 27(1):162-186, 2009. ISSN: 0264-0473, DOI: 10.1108/02640470910934669.				
7.	Jelena Radjenović, Branko Milosavljević, and Dušan Surla. Modelling and implementation of catalogue cards using FreeMarker. Program: electronic library and information systems, 43(1):62-76, 2009. ISSN: 0033-0337, DOI: 10.1108/00330330910934110.				
8.	Milan Vidaković, Branko Milosavljević, Zora Konjović, and Goran Sladić. Extensible Java EE-based agent framework and its application on distributed library catalogues. Computer Science and Information Systems (ComSIS), 6(2):1-28, 2009. ISSN: 1820-0214, DOI: 10.2298/csis0902001V.				
9.	Aleksandar Kovačević, Branko Milosavljević, Zora Konjović, and Milan Vidaković. Adaptive content-based music retrieval system. Multimedia Tools and Applications, 47(3):525-544, 2010. ISSN: 1380-7501, DOI: 10.1007/s11042-009-0336-2.				
10.	Bojana Dimić, Branko Milosavljević, and Dušan Surla. XML schema for UNIMARC and MARC 21. The Electronic Library, 28(2):245-262, 2010. ISSN: 0264-0473, DOI: 10.1108/02640471011033611.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :	0				
Total of SCI(SSCI) list papers :	15				
Current projects :	Domestic :	2	International :	1	

Science, arts and professional qualifications

Name and last name:	Milovančev S. Slobodan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1975
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Cutting Processing Tools and Tribology
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	H210	Measurements in Technical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
3.	BM119E	Technical standards and regulations for medical devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EI411	Measurements in robotics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIMMBM	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
14.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
15.	DE305S	Electrical Measurements in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
16.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

	List of courses being held by the teacher in the accredited study programmes		
	ID	Course name	Study programme name, study type
17.	DE305	Electrical Measurements in Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	S.Milovančev, G.Pavkov, "Additional Losses in Massive Copper Conductor Due to Eddy-Currents", IEEE Power Engineering Society 2001 Winter Meeting, Columbus, Ohio, Jan-Feb. 2001.
2.	D.Cvetinov, G.Pavkov, S.Milovančev, "Fault Location Algorithm in MV Networks with a Resistive Grounded Neutral", DistribuTECH EUROPE 2001, Berlin, Germany, November 2001.
3.	G.Pavkov, D.Cvetinov, S.Milovančev:"The Real Value of a Grounding Grid Impedance in High Voltage Substations", IEEE Power Engineering Society T&D 2002, Sao Paulo, Brasil, March 2002.
4.	G.Pavkov, S.Milovančev, D.Cvetinov:"An Analitical Evaluation of Current Distribution Over Grounding Conductor", IEEE GROUND "2002 and 3th WAE", Rio de Janeiro, Brasil, November 2002.
5.	S.S.Milovančev, V.V.Vujičić, V.A.Katić: "Improvements of On-Line Measurement in Distribution System Using a New Adding A/D Converter", IEEE T Power Delivery, Vol. 10, No. 4, pp. 1750-1756, October 1995.
6.	I.Župunski, L.Hodolič, V.Vujučić, S.Milovančev:"Power Factor Calibrator", IEEE Trans. Instrumentation and Measurement, vol. IM-46, No. 2, pp. 408-411, April 1997.
7.	V.Vujičić, I.Župunski, S.Milovančev:"Predetermination of the Quantization Error in Digital Measurement Systems", IEEE Trans. Instrum.Meas., vol. IM-46, No. 2, pp. 439-441, April 1997.
8.	V.Vujičić, S.Milovančev, M.Pešaljević, D.Pejić, I.Župunski: "Low Frequency Stochastic True RMS Instrument", IEEE Trans.Instrum.Meas., vol. 48, No.2, pp. 467-470, April 1999.
9.	S. Milovančev, V. Vujičić, V. Katić, D. Dapčević: "Monitoring of PWM Regulated Drives - An Accuracy Improvement", International Conference on Electrical Drives and Power Electronics - EDPE"94, Stara Lesna-High Tatras (Slovakia), Oct.1994, pp.502-506.
10.	V. Vujičić, S. Milovančev, I. Župunski, D. Pejić: "Proposal of a new measurement technology", 3rd International Syimposium Interdisciplinary Regional Research (Hungary, Romania, Yugoslavia), pp. 95-97. Part I, September 1997.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	8			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Mitrović Lj. Zoran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.04.1994
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1992	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1984	School of Electrical Engineering - Beograd	Electronics

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

	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EI411	Measurements in robotics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EZ302	Measurement systems in clean power sources	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
12.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
13.	DE504S	Contemporary Measuring Systems Design	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
16.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	DE504	Contemporary Measuring Systems Design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Antić B., Mitrović Z., Vujičić V.: Method for Harmonic Measurement of Real Power Grid Signals with Frequency Drift using Instruments with InternallyGenerated Reference Frequency, Measurement Science Review, 2012, Vol. 12, No 6, pp. 277-285, ISSN 1335-8871
2.	Zoran Mitrović: "A Phase Angle Standard", Measurement Science and Technology No. 15. Institute of Physics , January 2004, 559-564.
3.	Mitrović Z., Milovančev S., Župunski I.: A Precision Power Amplifier for Calibration Systems, Measurement Science and Technology, 2009, Vol. 20, No 6, pp. 1-3
4.	Santrač B., Sokola M., Mitrović Z., Župunski I., Vujičić V.: A Novel Method for Stochastic Measurement of Harmonics at Low Signal-to-Noise Ratio, IEEE Transactions on Instrumentation and Measurement, 2009, Vol. 58, No 10, pp. 3434-3441, ISSN 0018-9456
5.	Trkuljić N., Babić Z., Marković R., Peruničić G., Sarić M., Spasić Jokić V., Mitrović Z.: Implementation of the Modern PACS System at the Institute of Oncology and Radiology of Serbia, Medical Data, 2011, No 1, pp. 69-72, ISSN 1821-1585, UDK: 616-07:621.39(497.11)
6.	Mitrović Z., Spasić Jokić V.: Introduction in Picture Archiving and Communication System (PACS) in Medicine: DICOM (Digital Imaging and Communications in Medicine) , Medical Data, 2010, No 2, pp. 123-126, ISSN 1821-1585, UDK: 61:004
7.	Zoran Mitrović, Ivan Župunski:"Stable Source of AC Voltage and Current", IMTC Conference, Como, Italy, 2004.
8.	Nagy K., Vujičić V., Mitrović Z., Takacs M.: Fuzzyfication and measurement using stochastic approach, 7. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 25-26 Septembar, 2009, pp. 47-49, ISBN 978-1-4244-1442-0
9.	Zoran Mitrović: "Prilog razvoju etalona faznog ugla", doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 1985.
10.	P. Miljanić Z. Mitrović, I. Župunski, V. Vujičić: "Ka novom etalonu naizmeničnog napona, struje, električne snage i energije i faktora snage - rezultati ispitivanja", Kongres metrologa 2003, Beograd, Plenarni rad po pozivu

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	3	International :	0

Science, arts and professional qualifications

Name and last name:	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 carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
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 (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	ISIT23	Web Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT34	Identity Management	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT36	Software Development Tools	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	ISIT43	Configuration and Administration of Computer Systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT45	eTrade and eBanking technologies and systems	(SII) Software and Information Technologies (Inđija), 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

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 refferences (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

Science, arts and professional qualifications

Name and last name:	Pap I. Ištvan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2010		Computer Engineering and Computer Communication
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2008		Computer Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Computer Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	RT43	Engineering of Computer Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
2.	RT52A	Dedicated Computer Structure Design 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	RT52B	Dedicated Computer Structure Design for Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	SE1006	Object Oriented Programming 2	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	SERT03	Embedded system design 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
6.	RT59	Real-Time System Design	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	RT511	Practicum in computer engineering and computer communications	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	DRT10	Selected chapters of embedded computer based systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (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.	Mrazovac B., Bjelica M., Pap I., Teslić N.: Smart audio/video playback control based on presence detection and user localization in home environment
3.	Mrazovac 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

	Representative refferences (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 :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Pejić V. Dragan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1995
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2011		Electrical Measurements
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1993	Faculty of Technical Sciences - Novi Sad	Electrical Measurements

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

	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E140	Measuring in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
11.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pejić D., Vujičić V.: Accuracy Limit of High-Precision Stochastic Watt-Hour Meter, IEEE Transaction on Instrumentation and Measurement, 2000, Vol. 49, No 3, pp. 617-620
2.	Vujičić V., Milovančev S., Pešaljević M., Pejić D., Županski I.: Low Frequency Stochastic True RMS Instrument, IEEE Transaction on Instrumentation and Measurement, 1999, Vol. 48, No 2, pp. 467-470
3.	Antić B., Pejić D.: A Measuring System for Supervision of the Rail Welding Machine PRSM-4 No. 083, Journal of Automatic Control, 2006, Vol. 16, No 1, pp. 9-12, UDK: 621.3-52
4.	Pejić D.: Stohastičko merenje električne snage i energije, Novi Sad, FTN, 2010
5.	D. Pejić, P. Sovilj, M. Urekar, V. Vujičić, Lj. Županski, Uticaj zajedničkog napona na merenje biomedicinskog p300 potencijala, Zbornik radova 56. konferencije za ETRAN, Zlatibor, 11. – 14.6. 2012, pp. ML1.9-1-4, ISBN 978-86-80509-67-9

	Representative refferences (minimum 5, not more than 10)
6.	Pejić D., Urekar M., Vujičić V., Avramov-Zamurović S.: Comparator offset error supression in stochastic converters used in a Watt-Hour Meter, 1. Conference on Precision Electromagnetic Measurements - CPEM 2010, Daejeon, 13-18 Jun, 2010, pp. 235-236, ISBN 978-1-4244-6794-5
7.	Pejić D., Urekar M., Crnojakić M., Župunski I., Vujičić V.: ETALONSKO BROJILO ELEKTRIČNE ENERGIJE, 4. Kongres metrologa, Zlatibor: Kongres metrologa, 24-26 Septembar, 2007
8.	Antić B., Pejić D.: Merni sistem za nadzor mašine za zavarivanje šina PRSM-4 br.083, 50. ETRAN, Beograd, 6-9 Jun, 2006
9.	Pejić D.: Višekanalno merenje faktora izobličenja, Novi Sad, 1997
10.	Mitrović Z., Pejić D., Župunski I., Urekar M., Milovančev S., Vujičić V.: Metoda merenja aktivne snage u složenoperiodičnom režimu, 2011

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

Science, arts and professional qualifications

Name and last name:	Perišić R. Branko
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1983
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Education Specialist Thesis	2007	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
Education Specialist Thesis	2004	Software Engineering Institute at Carnagie Mellon University - Pittsburgh	Computer Science
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1986	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1977	Faculty of Electrical Engineering - Sarajevo	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E235	Fundamentals of Information Systems and Software Engineering	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E242	Software Specification and Modeling	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E2S40	Software Patterns and Components	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	RI45	Software Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	RI53	Business Information Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	ISIT22	Osnove baza podataka	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT28	Informaciona bezbednost	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	ISIT2E	Osnove projektovanja softvera	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	ISIT33	Integracija i verifikacija softverskih aplikacija	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies

	ID	Course name	Study programme name, study type
		List of courses being held by the teacher in the accredited study programmes	

	ID	Course name	Study programme name, study type
11.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	E2508	Agile Software Development Methodology	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	E2509	Protection and Recovery of Software Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
18.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
19.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(F20) Engineering Animation, Doctoral Academic Studies
20.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI12	Selected Topics in Contemporary Software Development Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(F20) Engineering Animation, Doctoral Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	B. Perišić, G. Milosavljević "A Method and Tool for Rapid Prototyping of Large Scale Business Information Systems" COMSIS 2004
2.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
3.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

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

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

Science, arts and professional qualifications

Name and last name:	Petrovački P. Dušan
Academic title:	Emeritus Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1971
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2011		Automatic Control and System Engineering
PhD thesis	1979	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1973	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1968	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.	AU509	Nonlinear Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
2.	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
3.	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
4.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies
5.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
6.	SDGI04	Selected Chapters in Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Specialised Academic Studies
7.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies
8.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
9.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies
10.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies
11.	DAU005	Selected Chapters in Optimization Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
12.	DAU011	Selected Chapters in Geographic Information Systems and Technologies	(E20) Computing and Control Engineering, Doctoral Academic Studies
13.	DGI004	Selected Chapters in Underground Infrastructure Utility Detection	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
14.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
15.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
16.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
17.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	D. Petrovački: "Optimal Control of a Heat Conduction Problem" Journal of Applied Mathematics and Physics, Vol. 26; 463-480, Basel, Switzerland, 1975.
2.	D. Petrovački: "The Minimum Time Problem for a Class of Nonlinear Distributed Parameter Systems", International Journal of Control, Vol. 32, No. 1, 51-62, London, United Kingdom., 1980

Representative refferences (minimum 5, not more than 10)	
3.	S. Odri, D. Petrovački, G. Krstonošić: "Evolutional Development of a Multi Level Neural Networks", INNS Neural Networks, Pergamon Press, Volume 6, Number 4, 1993.
4.	V.Pavlica, D.Petrovački: "About simple fuzzy control and fuzzy control based on fuzzy relational equations", International Journal FUZZY SETS AND SYSTEMS, Elsevier-Science, Amsterdam
5.	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 (SCI 2010 IF=1.416), Computers & Geosciences, 2009. Vol.35, No 8, p 1620-1630, ISSN 0098-3004
6.	Govedarica M., Petrovački D., Sladić D., Ristić A., Jovanović D., Pajić V., Vrtunski M., Ristić A.: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY (IF 2010 0.178) positively evaluated and accepted for publication in JEPE 2011, Journal of Environmental Protection and Ecology, 2012, ISSN 1311-5065
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multi-geophysical approach (IF2011 0.100), Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171
8.	Govedarica M., Sladić D., Petrovački D., Ninkov T., Ristić A.: Metadata Catalogues in Spatial Information Systems (2009 IF = 0.167), Geodetski list, 2010, Vol. 64, No 4, pp. 313-334, ISSN 0016-710X, UDK: 528
9.	Ristić A., Govedarica M., Petrovački D.: GNSS-Status and Perspective, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP), 2010, Vol. 14, No 1, pp. 6-10, ISSN 1821-4487, UDK: 63:004(497.11)
10.	Ristić A., Petrovački D., Govedarica M.: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP), 2010, Vol. 14, No 2, pp. 76-80, ISSN 1821-4487, UDK: 621.396.96(075.8)

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	45			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	9	International :	1

Science, arts and professional qualifications

Name and last name:	Petrovački Lj. Nebojša
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2005	University of California, Los Angeles - Los Angeles	Automatic Control and System Engineering
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies; (H00) Mechatronics, Undergraduate Academic Studies; (MR0) Measurement and Control Engineering, Undergraduate Academic Studies; (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E238A	Control Systems Technology	(BM0) Biomedical Engineering, Undergraduate Academic Studies; (E20) Computing and Control Engineering, Undergraduate Academic Studies; (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EMSAU1	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
9.	AU509	Nonlinear Control Systems	(E20) Computing and Control Engineering, Master Academic Studies; (MR0) Measurement and Control Engineering, Master Academic Studies
10.	GIAU01	Geosensor networks	(E20) Computing and Control Engineering, Master Academic Studies; (MR0) Measurement and Control Engineering, Master Academic Studies; (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
12.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. 2.Zoran D. Jeličić, Nebojša Petrovački: Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, accepted for publication on July 29th, 2008 in Journal of Structural And Multidisciplinary Optimization, Springer, Berlin-Heidelberg
2. 1.Nebojša Petrovački: Identifikacija, simulacija i upravljanje klasom EDFA pojačavača, Doktorska disertacija, Fakultet tehničkih nauka u Novom Sadu, Novi Sad, decembar 2008. godine.

	Representative refferences (minimum 5, not more than 10)
3.	3.Zoran D. Jeličić, Nebojša Petrovački: On The Fractional Order Model of EDFA With ASE, in The Proceedings of IEEE Conference on Numerical Simulation of Optical Devices, University of Nottingham, Great Britain, September 2008.
4.	4.Zoran D. Jeličić, Nebojša Petrovački: Fractional Derivative Model of Erbium-Doped Fiber Amplifiers With Asynchronous Spontaneous Emission, in Book of Abstracts of 2007 SIAM Conference on Control and Its Applications, June 29th - July 1st, 2007, San Francisco, California
5.	5.Nebojša Petrovački, Zoran D. Jeličić: Specific Optimal Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of IFAC Workshop: Technology Transfer In Developing Countries: Automation in Infrastructure Creation, May 17-18, 2007 Izmir-Cesme, Turkey
6.	6.Nebojša Petrovački, Zoran D. Jeličić: Modeling, Simulation, And Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13th 2006
7.	7.Nebojša Petrovački, Zoran D. Jeličić: Optimal Transient Response of Erbium-Doped Fiber Amplifiers, in The Proceedings of The 6th IEEE International Conference on Numerical Simulation of Optoelectronic Devices, Nanyang Technological University, Singapore, September 11-14th 2006
8.	8.Nebojša Petrovački: Stationary Simulation of The Gas Pipeline Using Neural Networks - Case Study of Vojvodina, in The Proceedings of The 10th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2006, July 16-19, 2006, Orlando, Florida (co-chair of the session)
9.	9.Nebojša Petrovački: Erbium-Doped Fiber Amplifiers, invited talk at Department of Electrical and Computer Engineering of University of California, San Diego, April 14th, 2006.
10.	11.Nebojša Petrovački: Gain Regulation In Erbium-Doped Fiber Amplifiers, in The Proceedings of The IEEE EUROCON 2005: The International Conference on Computer As A Tool, November 21-24, 2005, Belgrade, Serbia

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	0	International :	3

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Master's thesis	2006	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Sladić S. Goran
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.2004
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Computer Science
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Computer Science
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Computer Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2E41	E-Business Systems Security	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS36	Elektronsko poslovanje i ugovaranje	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
6.	ISIT10	Introduction to Software Development	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
7.	ISIT20	Object-oriented Programming Platforms	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
8.	ISIT2A	Software Development Techniques	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
9.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
10.	SE0014	Computer organisation	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

		List of courses being held by the teacher in the accredited study programmes	
	ID	Course name	Study programme name, study type
11.	SE0017	Software Development Metrodologies	(P00) Production Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
14.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
15.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies
			(IB0) Engineering Management - MBA, Specialised Professional Studies
16.	E2522	Software Standardization and Quality	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
18.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
19.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies
20.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Sladić G., Milosavljević B., Surla D., Konjović Z.: Flexible Access Control Framework for MARC Records, The Electronic Library, 2012, Vol. 30, No 5, pp. 623-652, ISSN 0264-0473, DOI:10.1108/02640471211275684

2. Gostojić S., Sladić G., Milosavljević B., Konjović Z.: Context-sensitive Access Control Model for Government Services, Journal of Organizational Computing and Electronic Commerce, 2012, Vol. 22, No 2, pp. 184-213, ISSN 1091-9392, DOI:10.1080/10919392.2012.667717

3. Sladić G., Milosavljević B., Konjović Z., Vidaković M.: Access Control Framework for XML Document Collections, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 3, pp. 591-609, ISSN 1820-0214, DOI: 10.2298/CSIS100827002S

4. Vidaković M., Milosavljević B., Konjović Z., Sladić G.: Extensible Java EE-Based Agent Framework and Its Application on Distributed Library Catalogues, Computer Science and Information Systems (ComSIS), 2009, Vol. 6, No 2, pp. 1-28, ISSN 1820-0214, DOI: 10.2298/csis0902001V

5. Sladić G., Milosavljević B., Konjović Z.: Extensible Access Control Model for XML Document Collections, 1. International Conference on Security and Cryptology - SECRYPT, Barcelona: INSTICC, 28-31 Jul, 2007, pp. 373-380, ISBN 9789898111128

6. Sladić G.: Kontrola pristupa u poslovnim sistemima, Beograd, Zadužbina Andrejević, 2011, ISBN 978-86-525-0000-0

7. Sladić G.: Kontrola pristupa XML dokumentima, Zadužbina Andrejević, 2008, ISBN 978-86-7244-683-8

	Representative refferences (minimum 5, not more than 10)
8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	54			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Sovilj M. Platon
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2007
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Biomedical Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Electronics

	List of courses being held by the teacher in the accredited study programmes		
	ID	Course name	Study programme name, study type
1.	BM119E	Technical standards and regulations for medical devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EI408	Project Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMMBM	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
11.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	BMIM5C	Brain Computer Interface	(BM0) Biomedical Engineering, Master Academic Studies
13.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
15.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
18.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
19.	DE518	Brain Computer Interface Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sovilj P.: Stohastičko digitalno merenje EEG signala, Novi Sad, Fakultet tehničkih nauka, 2010
2.	Sovilj P.: Eksterno testiranje površinskih kalemova uređaja za magnetsku rezonancu, FTN Novi Sad, 2006
3.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456
4.	Sovilj P., Pjevalica N.: FPGA based model of processing EEG signal, 17. Telekomunikacioni forum TELFOR, Beograd: Telecommunications society, Belgrade, 24-26 Novembar, 2009, pp. 677-680, ISBN 978-86-7466-375-2
5.	Sovilj P., Čabrilo N., Vujičić V., Župunski I.: Remote measurements by ZigBit wireless module, 10. International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI, Banja Luka: Mašinski fakultet Banja Luka, 26-28 Maj, 2011, pp. 885-891, ISBN 978-99938-39-36-1, UDK: 621(082);621.3(082)
6.	Sovilj P., Davidović D., Beljić Ž., Ković V.: Measurement and processing of event-related brain potential records, 19. Telekomunikacioni forum TELFOR, Beograd: TELFOR, 22-24 Novembar, 2011, pp. 683-686, ISBN 978-1-4577-1498-6
7.	Pjevalica N., Pjevalica V., Sovilj P.: Tehničko rešenje: Unapređeni algoritam upravljanja memorijom, Razvijeno: u okviru projekta tehnološkog razvoja TR-11005, 2011
8.	Ivanović M., Sovilj P.: Developing Expert System for assessment of quality management level, International Journal Total Quality Management
9.	M. Bobrek, Z. Tanasić, P. Sovilj: Upravljanje projektima, udžbenik, MFBL, Banja Luka, 2006
10.	M. Bobrek, M. Soković, P. Sovilj, Z. Tanasić: Upravljanje kvalitetom, udžbenik, MFBL, Banaj Luka 2006, COBISS.SI-ID 982249

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

Quotation total :	5			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Spasić-Jokić M. Vesna
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.2006
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical Measurements
Magister thesis	1986	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1978	School of Electrical Engineering - Beograd	Electrical Measurements

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

	ID	Course name	Study programme name, study type
1.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EIJNZZ	Ionizing and Non-Ionizing Radiation and Protection	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIMET	Metrology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EISIK	Standardization and quality	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	DE303S	Biomedical Instrumentation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EI522	Introduction to knowledge management	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	SI018	Ionizing and Non-Ionizing Radiation and Protection	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
8.	SI019	Quality in Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
9.	SI039	Metrology	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	M.Tomašević, V.Spasić Jokić: "Rendgensko zračenje i zaštita u mamografiji", izdavač Srpsko lekarsko društvo, 2002, 348 strana.
2.	Radovan Ilić, Vesna Spasić-Jokić. Petar Beličev, Miloš Dragović: "The Monte Carlo SRNA-VOX code for 3D proton dose distribution in voxelized geometry using CT data", Phys. Med. Biol. 50 (2005), 1011–1017.
3.	D. Popović, D.Todorovic, V.Spasic Jokic i G.Djuric (2008) Air Radioactivity Monitoring In Serbia, chapter 10 In: Environmental Technologies: New Developments"Environment Technologies, I-Tech Education and Publishing, ARS Journal Vienna, ISBN 978-3-902613-10-3Ed. B.O Güngür 147-166, 268 stranica
4.	V.Spasić Jokić (2008) Positron emission tomography (PET) in Medical Imaging, Chapter 2 In: Environmental, Health and Humanity Issues in the Down Danubian Region: Multidisciplinary Approach. Ed.Dragutin Mihailović, Mirjana Vojinovic Miloradov, World Scientific Publishing Company, decembar 2008, ISBN: 978-981-283-439-3 i 978-981-283-439-7, strane 15-24, ukupno 392 strane
5.	D. Popovic, D. Todorovic, V. Spasic Jokic, J. Nikolic and J. Ajtic, Contents of Radionuclides in Soils in Serbia: Dose Calculations and Environmental Risk Assessment, Chapter 3 In: Advances in Environmental Research. Volume 6, Ed. Justin A. Daniels, ISBN: 978-1-61728-737-4, (2012) strane 91-134
6.	V. Spasic Jokic. Health Risks Associated with Low Dose Ionizing Radiation, In: Risk Assessment and Management, Ed. Zhang Zhiyong, Academy Publish (2012) strane 499- 528

	Representative refferences (minimum 5, not more than 10)
7.	D.Popović, T.Božić, J.Stevanović. M.Frontasyeva, D.Todorovic, V.Spasić Jokić. (2010) Concentration of trace elements in blood and feed of homebred animals in Southern Serbia. Environmental Science and Pollution Research, Vol 17 (5), ISSN 0944-1344, strane 1119-1128
8.	A.Milatovic, O. Ciraj Bjelac, S. Ivanovic, S. Jovanovic, V.Spasic Jokic, Patient dose measurements in diagnostic radiology procedures in Montenegro, Radiation Protection Dosimetry, Radiation Protection Dosimetry, 149 (4):454-463. (2012)
9.	Župunski Lj., Spasić Jokić V., Trobok M., Gordanić V.: Cancer Risk Assessment after Exposure From Natural Radionuclides In Soil Using Monte Carlo Techniques DOI: 10.1007/s11356-010-0344-9, Environmental Science and Pollution Research, 2010, Vol. 17, No 9, pp. 1574-1580, ISSN 0944-1344
10.	Spasić Jokić V., Župunski Lj., Janković Lj., Gordanić V.: Effective dose estimation and lifetime cancer mortality risk assessment from exposure to Chernobyl 137Cs on the territory of Belgrade City and the region of Vojvodina, Serbia, Environmental Science and Pollution Research, 2011, Vol. 18, pp. 708-715, ISSN 0944-1344

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	23			
Total of SCI(SSCI) list papers :	13			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Tomić J. Josif
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1995
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Electrical Measurements

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

	ID	Course name	Study programme name, study type
1.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK301	Measurement Systems in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EOS10	Laboratory of electrical measurement	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
4.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EM456	Computers in the supervisory and control systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI28	Industrial Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI38	Optoelectronics for communication and sensors	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
13.	DE503S	Industrial Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	SI048	Measurement Systems in the Field of Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
16.	DE117S	Selected chapters from optoelectronics sensors systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
17.	DE315S	Optoelectronics sensors systems-advanced course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
18.	DE418S	Design of complex optoelectronics systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
19.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
21.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

	ID	Course name	Study programme name, study type
22.	EM520	Industrial networks and protocols	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
23.	EM532	Design of electronic devices.	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
24.	DE503	Industrial Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
25.	DE117	Selected chapters from optoelectronics sensors systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
26.	DE315	Optoelectronics sensors systems-advanced course	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
27.	DE418	Design of complex optoelectronics systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

Representative refferences (minimum 5, not more than 10)

1. Poljak P., Kušljević M., Tomić J.: Power Components Estimation According to IEEE Standard 1459-2010 Under Wide-Range Frequency Deviations, IEEE Transactions on Instrumentation and Measurement, 2012, Vol. 61, No 3, pp. 636-644, ISSN 0018-9456

2. J. Tomić, M. Kušljević, D. Marčetić, An Adaptive Resonator Based Method for Power Measurements According to the IEEE Trial-Use Standard 1459-2000, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 250-258, February 2010.

3. M. Kušljević, J. Tomić, Lj. Jovanović, Frequency Estimation of Three-Phase Power System Using Weighted-Least-Square Algorithm and Adaptive FIR Filtering, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 322-329, February 2010.

4. Tomić J., Kušljević M., Vujičić V.: A New Power System Digital Harmonic Analyzer , IEEE Transactions on Power Delivery, 2007, Vol. 22, No 2, pp. 772-780

5. M. Kušljevič, J. Tomić, D. Marčetić, Active power measurement algorithm for power system signals under non-sinusoidal conditions and wide-range frequency deviations, IET Generation, Transmission & Distribution, Vol. 3, No. 1, pp. 57–65, September 2008.

6. D. Marčetić, J. Tomić, M. Kušljević, Unbalanced 3-Phase Distribution System Frequency Estimation Using LMS Method and Positive Voltage Sequence, IET Science, Measurement & Technology, 2013. rad prihvacen za objavljivanje

7. Bajić J., Stupar D., Tomić J., Slankamenac M., Joža A., Živanov M.: Implementation of the Optical Beam Profiler System Using LabVIEW Software Package and Low-Cost Web Camera, 35. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroračunalima u telekomunikacijama, Opatija: MIPRO Croatian Society, 21-25 Maj, 2012, pp. 173-178, ISBN 978-953-233-069-4

8. Tomić J., Slankamenac M., Kušljević M., Živanov M.: A Virtual Laboratory for Teaching Frequency Estimation Techniques, 15. International Power Electronics

9. Stupar D., Bajić J., Slankamenac M., Živanov M., Jelić M., Joža A., Tomić J.: Influence of fiber diameter on fiber optic displacement sensor, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978-86-7892-355-5

10. Stupar D., Bajić J., Slankamenac M., Tomić J., Živanov M., Jelić M., Manojlović L.: Optoelectronics system for measuring light-wave attenuation in liquids, 3. Research People and Actual Tasks on Multidisciplinary Sciences, Lozenec: Printing house "Angel Kunchev" Univeristy of Rousse 8, Studentska Street, 7016 Rouse, Bulgaria, 8-10 Jun, 2011, pp. 184-188, ISBN 1313-7735

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

Quotation total :	46		
Total of SCI(SSCI) list papers :	6		
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Vujičić V. Vladimir
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1975
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1983	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK301	Measurement Systems in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMMBM	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIPMS1	Design and development of industrial devices and measurement systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
14.	DE103S	Measurement Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	DE304S	Measurements in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
16.	DE404S	Intelligent Measurements	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
17.	SI018	Ionizing and Non-Ionizing Radiation and Protection	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies

	ID	Course name	Study programme name, study type
18.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
19.	EIDNU	Supervisory Control and Data Acquisition Systems Design	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
21.	DE103	Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE304	Measurements in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
23.	DE404	Intelligent Measurements	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456
2.	Santrač B., Sokola M., Mitrović Z., Županski I., Vujičić V.: A Novel Method for Stochastic Measurement of Harmonics at Low Signal-to-Noise Ratio, IEEE Transactions on Instrumentation and Measurement, 2009, Vol. 58, No 10, pp. 3434-3441, ISSN 0018-9456
3.	Antić B., Mitrović Z., Vujičić V.: Method for Harmonic Measurement of Real Power Grid Signals with Frequency Drift using Instruments with InternallyGenerated Reference Frequency, Measurement Science Review, 2012, Vol. 12, No 6, pp. 277-285, ISSN 1335-8871
4.	J.J.Tomić, M.D.Kušljević, V.V.Vujičić: "A New Power System Digital Harmonic Analyzer", IEEE Trans. on Power Delivery, Vol. 22, No. 2, pp.772-780, April 2007.
5.	Radonjić A., Vujičić V.: Integer Codes Correcting Burst Errors Within A Byte, IEEE Transactions on Computers, 2011
6.	Radonjić A., Vujičić V.: Integer SEC-DED Codes for Low Power Communications, Information Processing Letters, 2009, Vol. 110, No 12-13, pp. 518-520, ISSN 0020-0190
7.	V.Vujičić: "GENERALIZED LOW FREQUENCY STOCHASTIC TRUE RMS INSTRUMENT", IEEE Trans.Instrum.Meas., Vol. 50,No. 5, pp.1089-1092, October 2001.
8.	S. S. Milovančev, V. V. Vujičić, V. A. Katić: "Improvements of On-Line Measurement in Distribution System Using a New Adding A/D Converter", IEEE Trans. on Power Delivery, Vol. 10, No. 4, pp. 1750-1756, October 1995.
9.	I. Županski, L. Holiček, V. Vujičić, S. Milovančev: "POWER FACTOR CALIBRATOR", IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 408-411, Apr. 1997.
10.	V. Vujičić, I. Županski, S. Milovančev: "PREDETERMINATION OF THE QUANTIZATION ERROR IN DIGITAL MEASUREMENT SYSTEMS, IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 439-441, Apr. 1997.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	9			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Vukmirović M. Srđan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.11.2000
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

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

	ID	Course name	Study programme name, study type
1.	E126	System Control, Modeling and Simulation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E232	System Modeling and Simulation	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303A	Distributed Systems in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	H213	System Modelling and Simulation 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(H00) Mechatronics, Undergraduate Academic Studies
5.	E2312	Software design for SCADA systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	ESI004	Cloud Computing in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
7.	ESI008	Development of Cloud application in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
8.	SEAU02	SCADA Software	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
9.	AU502	Distributed Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
11.	E2533	Discrete event simulation	(E20) Computing and Control Engineering, Master Academic Studies
12.	E2535	Software Algorithms in Supervisory Control and Data Acquisition Systems	(E20) Computing and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies

	ID	Course name	Study programme name, study type
List of courses being held by the teacher in the accredited study programmes			
14.	ESI032	Smart grid applications in Cloud	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Kljajic, Miroslav; Gvozdenac, Dusan; Vukmirovic, Srdjan Use of Neural Networks for modeling and predicting boiler's operating performance ENERGY 2012 45 (1):304-311

2. Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883

3. S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679

4. S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64

5. D. Capko, A. Erdeljan, S.Vukmirovic, I. Lendak, A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control ISSN: 1392-124X, pp. 316 - 322

6. S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control ISSN: 1392-124X, pp. 310 - 316

7. Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836

8. Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456

9. Vukmirović S., Vujić G., Vujic B., Jovičić N., Jovičić G., Babić M.: Experimental and Artificial Neural Network approach for forecasting of traffic air pollution in urban areas: the case study of Subotica, Thermal Science - International Scientific Journal, 2010, Vol. 14, pp. 79-87, ISSN 0354-9836

10. Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2012		Applied Computer Science and Informatics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E217	Computer Architecture	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
2.	E223A	Object Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
3.	E225	Operating Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E234	Compilers	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
5.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
6.	E2529	Parallel and distributed architectures	(E20) Computing and Control Engineering, Master Academic Studies
			(ES0) Power Software Engineering, Master Academic Studies
			(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

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

2. Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI–CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978

3. Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214

4. Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45

5. Živanov Ž., Rakić P., Hajduković M.: Wireless sensor network application programming and simulation system, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 109-126, ISSN 1820-0214

	Representative refferences (minimum 5, not more than 10)
6.	Živanov Ž., Rakić P., Hajduković M.: Using code generation approach in developing kiosk applications, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 41-59, ISSN 1820-0214
7.	*****Autori: Suvajdžin Z., Hajduković M., Živanov Ž. Naziv: Character oriented program editing – habit or necessity? Naziv časopisa: Novi Sad Journal of mathematics
8.	*****Autori: Hajduković M., Suvajdžin Z., Živanov Ž., Hodžić E. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics
9.	*****Milašinović D., Živanov Ž., Rakić P., Suvajdžin Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization.
10.	Rakić P., Milašinović D., Živanov Ž., Hajduković M.: MPI-CUDA Parallelisation of the Finite Strip Method for Geometrically Nonlinear Analysis, 1. Internationale Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs: Civil-Comp Press, , ISBN 978-1-905088-29-4

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

Science, arts and professional qualifications

Name and last name:	Županski Ž. Ivan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	14.10.1974
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	1981	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1973	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E140	Measuring in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EI408	Project Management	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	DE204S	Selected topics in metrology	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	SI023	Measurement and processing of the results	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	SI039	Metrology	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EIORM	Measurement and Data Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE204	Selected Chapters in Metrology	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	S. Avramov, I. Županski: "An AC Comparator for Audio Frequency Waveforms", IEEE Trans. Instrum. Meas., vol. IM-40, pp. 373-376, Apr. 1991.
2.	I. Županski, L. Holiček, V. Vujičić, S. Milovančev: "Power Factor Calibrator", IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 408-411, Apr. 1997.
3.	V. Vujičić, I. Županski, S. Milovančev: "Predetermination of the Quantization Error in Digital Measurement Systems, IEEE Trans. Instrum. Meas., vol. IM-46, No.2, pp. 439-441, Apr. 1997.
4.	V. Vujičić, S. Milovančev, M. Pešaljević, D. Pejić, I. Županski: "Low Frequency Stochastic True RMS Instrument", IEEE Trans. Instrum. Meas., vol. IM-48, No.2, pp. 467-470, Apr. 1999.

Representative refferences (minimum 5, not more than 10)	
5.	M. Pešaljević, I. Županski: "Komparacija električnih mernih etalon-uređaja", Savezni zavod za mere i dragocene metale, naučna knjiga, 339 strana, Beograd, 1981.
6.	I. Županski, P. Miljanić: "AC Power Calibrator with a Precision Digital Wattmeter in Feedback Loop", IEEE Trans. Instrum. Meas., vol IM-36, pp.354-356, June 1987.
7.	I. Županski, P. Miljanić: "AC Power Calibrator with a Precision Digital Wattmeter in the Feedback Loop", Conference on Precision Electromagnetic Measurements CPEM "86, CPEM"86 Digest, Editor: Ronald F. Dziuba, pp. 23-24, Gaithersburg, 1986.
8.	S. Avramov, I. Županski: "One AC Comparator", Conference on Precision Electromagnetic Measurements CPEM "90, CPEM"90 Digest, Editor: Gary R. Hanes, pp. 74-75, Ottawa, 1990.
9.	S. Milovančev, V. Vujičić, V. Katić, I. Županski: "An Intelligent Multichannel Converter of AC Electrical Power and/or Voltage and Current RMS Values", Proceedings of IEEE International Symposium on Industrial Electronics ISSIE "95, pp. 138-142, Athens, Greece, 1995.
10.	V. Vujičić, I. Županski, S. Milovančev: "General Method for Quantization Error Predetermination in Digital Measurement System", Conference on Precision Electromagnetic Measurements CPEM "96, CPEM"96 Digest, pp.49-50, Editor: Andreas Braun, Braunschweig, Jun. 1996.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	11			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	2	International :	0

Standard 10.   Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students' number are to be provided.

Teaching is done in lecture halls, classrooms and specialised laboratories. The library houses enough library units relevant for the Measurement 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.

Standard 11.   Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control.

Checking the quality of the study program is implemented through the following activities: (a) a survey of students at the end of the class in particular subject, (b) surveys of graduates on the quality of the study programme and logistical support to studies, (c) a survey of students at the end of summer semester when evaluating the logistical support to studies, (d) a survey of students at the entry at every year of study. Then students evaluate the programme for the last year of study, (e) survey of teaching and non-teaching staff on the quality of the study program and logistical support to studies.

Standard 12. Distance Education

Distance learning is not available within this study programme.