STUDY PROGRAMME ACCREDITATION MATERIAL:

BIOMEDICAL ENGINEERING

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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Programme name	Biomedical 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	Interdisciplinary
Scientific, proffesional or art field	Biomedical Engineering: Technical Sciences; Medical Sciences
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	240
Academic degree, abbreviation	Bachelor with Honours in Biomedical Engineering, B.Biom.Eng.
Study length	4
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	240
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	
Web address containing programme information	http://www.ftn.uns.ac.rs

Standard 00.   Introduction

The study programme Biomedical Engineering is realized based on contemporary scientific cognitions in the field of Biomedical engineering modeled on similar study programmes on leading universities worldwide. The programme is coordinated with Bologna recommendations and technological development strategy of AP Vojvodina and Republic of Serbia. The undergraduate studies last four years, and the eight semester is provided for development of Bachelor thesis. Each year 70 candidates enroll this study programme. The academic degree obtained by students who successfully finish the programme is Bachelor degree in Biomedical Engineering. The study programme enables students to acquire the necessary knowledge, skills and practical experiences in the field of medicine, electrical and computer engineering (electrical, communication technologies, signal processing, instrumentalization and electrical measurements, automation and system control, computer sciences and informatics), mechanics and mechatronics.

Obtained knowledge and skills allow student with Bachelor degree to successfully respond to market demands and economy based on knowledge in the field of biomedical engineering. Lectures are performed by lecturers from the Department of Computing and Control Engineering, Department of Power, Electronics and Telecommunication Engineering, Department of Technical Mechanics, Department of Industrial Engineering and Engineering Management, Department of Fundamental Disciplines in Engineering and Department of Production Engineering at Faculty of Technical Sciences in Novi Sad, as well as lecturers from Department of Anatomy, Department of Physiology, Department of Surgery, Department of Neurology, Department of Internal Medicine and Department of General Medical Subjects at Medical Faculty in Novi Sad. Practical practice is performed in new, contemporary, well equipped laboratories in which students acquire the knowledge needed for solving practical problems in the field of biomedical engineering.

The concept of the programme is defined in such a way that it educates future engineers who will possess enough knowledge necessary for practical work and which at the same time enables them to continue education at the corresponding graduate or doctoral studies. The current state and, especially, trends in the development of biomedical engineering form the basis for defining the structure and content of the study programme. For that reason a number of subjects at the lower years of study is defined in such a way to provide the necessary general and theoretical knowledge which provide the foundation for understanding computingand automatic control (based on principles of physics, mathematics, electrical engineering, computer science, computer engineering, theory of signals and systems) as well as medicine. Upper years of study are devoted primarily to specialized courses which are aimed at providing professional and applied knowledge in the narrow fields of interest. The studies especially value independent work, encourage participation in practical professional and developmental projects within the laboratories and develop problem solving abilities. In addition to the necessary theoretical and practical knowledge, all these activities provide the feeling of self-confidence and completeness which is necessary for the successful integration in the professional environment. The wide area covered by the study programme and the inevitable need for specialization have led to the need for a large number of elective courses at the upper years while the interdisciplinary aspect is maintained through common core subjects.

Standard 01. Programme Structure

The name of this undergraduate academic study programme is Biomedical Engineering. The academic degree obtained is Bachelor degree in Biomedical Engineering. Requirements for the admission to the study programme are the completion of four years of secondary schooling (max 40 points) and the successfully passed entrance examination.The entrance examination in the field of mathematics worth max 60 points. The outcomes of the learning process include knowledge, skills and competencies which enable studentsto apply acquired knowledge to the problems arising in engineering practice, to use expert literature and toenable students to continue their studies, if they choose so.

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

Courses are carried out in the form of lectures and practical classes. Courses are carried out in the form of lectures and practice. At lectures, while using the appropriate modern didactic-methodological methods, students become familiar with the course subject matter and are offered explanations that help them understand it more easily. At practice classes, complementing the lectures, students solve specific engineering problems and are given examples which further illustrate the course matter. Practical classes also provide additional explanation of the topics presented at lecture classes. The practice classes can be auditory, computer or laboratory practice. Consultations also present an important segment of knowledge transfer. The size of the group for practice classes depends on the type of practice. Student obligations at these classes include writing seminar papers, homework assignments, small professional project assignments which are followed and evaluated according to Regulations adopted at the Faculty. The number of points earned is expresses according to uniform system and reflects the students' workload. Each course is worth a certain number of ECTS (European Credit Transfer System) credits and the 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 240 ECTS credits.

Standard 02. Programme Objectives

The study program Biomedical engineeringis designed to provide acquisition of competencies necessary for biomedical engineer to possess, and in accordance with the requirements of the economy, the knowledge-based economy and society as a whole. An important role of all teachers in this study programme is to educate top engineers ready for active involvement in the regional development and responsible for the maintenance of the high-tech and research potential of Vojvodina and Serbia in the field of biomedical engineering. The objective of the study programme is fully in accordance with the main objectives and goals of the Faculty of Technical Sciences and is in line with the high educational standards proposed by our educational system. Also, the realization of this study programme educates engineers who possess knowledge necessary for the labor market in Serbia, the region and beyond.

Standard 03. Programme Goals

The objectives of the study programme can be classified in the following categories:

Technical knowledge: Acquiring the necessary knowledge in the field of electrical and computer engineering (automation, system control, computer sciences, informatics, electronics, telecommunication systems, signal processing, instrumentation, and electrical measurements) combined with the knowledge of mathematics, physics and selected social studies.

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

Communicative skills and team work. Acquiring the necessary knowledge and skill with the ability to present one's results to the professional and wider audience as well as developing the team work skills.

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

Preparation for professional involvement: Acquiring the necessary knowledge and developing awareness of wide area of problems and obligations related to professional practice.

Standard 04.   Graduates` Competencies

Engineers who have completed Biomedical Engineering study programme have the competence for development, design, construction and application of modern complex systems and parts of systems in the field of biomedical engineering. Students who successfully finish study program will be able to:

-Understand and apply fundamental knowledge in the field of electronics
-Apply knowledge in the field of mathematics, physics and engineering disciplines
-Design systems, components and processes based on given specifications
-Use engineering approach and modern software tools in engineering praxis
-Design and perform engineering experiments, and subsequently analyze and interpret obtained data
-Understand, notice, formulate and solve engineering problems
-Improve their knowledge and follow technological development
-Work in team which is composed of experts with different profiles
-Understand professional and ethical responsibility of Biomedical Engineering engineer
-Effectively communicate
-Understand the effect of engineering solutions on society and environment
-Accept the need to actively engage in lifelong education

Standard 05. Curriculum

The curriculum of undergraduate academic studies in Biomedical Engineering is designed to fulfill all the defined objectives. The structure of the study programme includes academic and general education subjects, theoretical and methodological courses, scientific and professional courses, professional and applied courses. To meet students' individual preferences the Curriculum includes elective courses. The structure of the study programme secures that about 15% of the courses belong to the academic and general education subjects, about 20% are theoretical and methodological courses, about 35% are scientific and professional courses and 30% are professional and applied courses. It has also been ensured that the elective courses represent at least 20% of ECTS credits.

Each course lasts one term and is worth a certain number of ECTS credits where one credit is equivalent to approximately 30 hours of work. The order of courses is defined so as to ensure that the prerequisite knowledge for one course is attained in the previously attended courses. To successfully finish this study programme student needs to attain the minimum of 240 ECTS credits.

The curriculum defines each course in terms of its name, type of course, year and semester of studies, number of ECTS credits, name of the teacher, objectives of the course and expected outcomes, knowledge and competences, pre exam assignments for attending the course, content of the course, recommended literature, methods of teaching, types of evaluation and other. Professional practice and practical work of 45 hours forms a constituent part of the curriculum and is carried out in suitable scientific and research institutions, innovation centers, organizations which provide infrastructure support for innovative activities, industrial and public institutions.

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

Table 5.2 Course specification

Course:		
Course id:	BMI91	**Mathematics 1**
Number of ECTS:	8	
Teachers:		Grbić P. Tatjana, Adžić Z. Nevenka, Mihailović P. Biljana, Nikolić M. Aleksandar, Sladoje Matić I. Nataša
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	4	0	0	0

Precondition courses	None

1. Educational goal:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of elementary, general, abstract and linear algebra and basic mathematical analysis.

2. Educational outcomes (acquired knowledge):

Ability to use the acquired knowledge in further education in engineering subjects so as to postulate and solve mathematical models in the field of engineering sciences.

3. Course content/structure:

Lectures (Theoretical lectures). Logic, relations, functions, Boolean algebra, groups, rings, fields, polynomials, complex numbers, finite fields, free vectors, analytical geometry in space (vector!), determinants, systems of linear equations, vector space, matrices, characteristic roots and vectors. Field of real and complex numbers. Metric space. Series (convergence of series, real and complex sequences, complete metric space). Limits, continuity and
uniform continuity of functions.Practice (Exercises):
Corresponding examples from theoretical lectures are done in exercises,
thus practicing the taught lectures and understanding them better.
Practice lectures In practice classes adequate examples and tests from the theoretical lectures are done in order to exercise lectured theory where exercises contribute to understanding of the theory.

4. Teaching methods:

Lectures; Numerical calculation practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	5.00	Oral part of the exam	Yes	30.00
Exercise attendance	Yes	3.00	Practical part of the exam - tasks	Yes	40.00
Lecture attendance	Yes	2.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Rade Doroslovački	Principi algebre, opšte diskretne i linearne	Alfa Graf, Novi Sad	2008
2,	Rade Doroslovački, Ljubo Nedović	Zbirka ispitnih zadataka iz diskretne matematika	Alfagraf, Novi Sad	2006
3,	Momčilo Novković,Ilija Kovačević, Biljana Carić, Slavica Medić, Vladimir Ćurić	Zbirka rešenih zadataka iz matematičke analize 1	FTN, Novi Sad	2011
4,	Ilija Kovačević, Nebojša Ralević, Biljana Carić, Vojislav Marić, Momčilo Novković, Slavica Medić	Matematička analiza 1: uvodni pojmovi i granični procesi	FTN, Novi Sad	2011
5,	Ilija Kovačević, Vojislav Marić, Nebojša Ralević, Momčilo Novković, Biljana Carić, Slavica Medić	Matematička analiza1: diferencijalni i intergalni račun;obične diferencijalne jednačine	FTN, Novi Sad	2011

Table 5.2 Course specification

Course:			Physics
Course id:	BMI93		
Number of ECTS:	4		
Teacher:		Budinski-Petković M. Ljuba	
Course status:		Mandatory	

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

Precondition courses	None

1. Educational goal:

Acquisition of basic knowledge in physics.

2. Educational outcomes (acquired knowledge):

Acquired knowledge enables understanding of physical processes operation of technical devices is based on.

3. Course content/structure:

Fundamental forces. Fundamentals of fluid mechanics. First and second principle of thermodynamics. Entrophy. Phase transitions. Diffusion, heat conduction, viscosity. Harmonic oscillations. Wave motion and acoustics. Wave equation. Doppler effect. Power and volume of the sound. Ultrasound. Wave optics. Interference, diffraction, dispersion and polarization of light. Basic laws of geometric optics. Optical instruments. Laws of black body radiation. Photoeffect. Lasers. Modern theory of conductivity. Semiconductors. The physical basis of nuclear techniques. Radioactive decays. Fission and fusion.

4. Teaching methods:

Lectures; laboratory practice; computing practice; consultations. Theoretical part of the course is presented during lectures and it is accompanied by adequate examples which illustrate application of theory on problem solving. Laboratory practice consists of experiments in the field covered by the syllabus and the programme. Typical problems are solved during computing practice, and the knowledge from the lectures is deepened. Besides lectures and practice, consultations are held on the regular basis. Parts of the course which represent a logical whole may be passed during the teaching process through colloquiums. Final examination consists of the written and oral part. Written part of the examination is eliminatory.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	Yes	5.00	Final exam - part one	Yes	35.00
Laboratory exercise defence	Yes	20.00	Final exam - part two	Yes	35.00
Lecture attendance	Yes	5.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	dr Ana Petrović	Fizika	Fakultet tehničkih nauka u Novom Sadu	2012
2,	dr Ljuba Budinski-Petković	Fizika	Fakultet tehničkih nauka u Novom Sadu	2008
3,	M. Vučinić-Vasić, D. Ćirić, T. Škrbić, M. Đurić	Zbirka Zadataka iz fizike	Fakultet tehničkih nauka u Novom Sadu	2012

Table 5.2 Course specification

Course:		
Course id:	BMI94	**Fundamentals of Electrical Engineering**
Number of ECTS:	6	
Teacher:		Đurić M. Nikola
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

The objective of the course is introduce and professional training of students in the field of fundamentals of electrical engineering, by reviewing the basic physical laws of electrostatics, the time constant electric current, electromagnetism, time-varying electric currents and time-varying electric and magnetic fields. By presenting and analyzing the fundamental laws, students gain a new and moreover deepen existing knowledge about fundamentals of electrical engineering and interaction of this scientific field with other research areas.

2. Educational outcomes (acquired knowledge):

The aim of this course is to prepare students to acquire knowledge and skills, through individual and team work, for applying, improving and developing methods for solving problems in the field of electrostatics, electromagnetism, and electrical networks with time-constant and time-varying electric currents. Based on the acquired knowledge, students will be able to calculate the electric field distribution of simple structure, charged by the time constant electrical charge, to calculate the capacitance of simple homogeneous symmetric structure, to solve circuits with time constant electric currents, to calculate the distribution of the magnetic field of simple symmetric structure, to calculate the inductance of simple structure with windings, to solve simple electrical and magnetic circuits with sinusoidal currents, to calculate the current, active and reactive power in electrical networks.

3. Course content/structure:

This course is intended to present some of the existing theoretical knowledge in the field of fundamentals of electrical engineering. It is planned to cover the following areas: 1 Electrostatics (The electric field vector, Voltage and electric field potential, Gauss's law, Conductors in electrostatic field, Capacitance and capacitors, Dielectrics in the electrostatic field, Boundary conditions, Energy and forces in electrostatic field). 2. Time constant electric current (Vector of electric current density and current intensity, Ohm's law and resistors, Joule's law, Kirchhoff's laws, Generators, Maximum power transmission condition, Method fro electrical circuits solving, Theorem of superposition, Norton's theorem, Tevenen's theorem, Theorem of compensation, Basic electrical measurements). 3. Time constant magnetic field (Magnetic induction vector, Bio-Savart law. Magnetic flux, Ampere's law, Magnetic material properties, Ferromagnetic, Boundary conditions, Magnetic circuit). 4. Time slowly varying electric and magnetic fields (Electromagnetic induction, Faraday's law, Lenz's law, Eddy currents, Skin effect and proximity effect, self and mutual inductance, Magnetic coupling, Transformers, Energy and forces in the magnetic field). 5. Electrical circuits with time varying electrical currents (Impedance, Complex power, Maximum power transfer condition, Power factor improvement, Simple resonant circuits, Coupled circuits).

4. Teaching methods:

Through lectures, auditory and laboratory exercises, group and individual consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	20.00	Coloquium exam	No	20.00
Test	Yes	10.00	Coloquium exam	No	20.00
			Theoretical part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Branko D. Popović	Osnovi elektrotehnike 1 – odabrana poglavlja	Akademska misao	2004
2,	Branko D. Popović	Osnovi elektrotehnike 2 – odabrana poglavlja	Akademska misao	2004
3,	Neda Pekarić-Nađ, Vera Bajović	Zbirka rešenih ispitnih zadataka iz osnova elektrotehnike	Građevinska knjiga	1987

Table 5.2 Course specification

Course:		
Course id:	BMI95	**Introduction to Computer Science**
Number of ECTS:	5	

Teachers:	Marković -. Milan, Milosavljević P. Branko
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

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

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

Table 5.2 Course specification

Course:			
Course id:	BMI96	**Mechanics**	
Number of ECTS:	7		
Teachers:		Novaković N. Branislava, Spasić T. Dragan	
Course status:		Mandatory	

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

Precondition courses	None

1. Educational goal:

Professor's intention is to teach the student the following through this course: - to learn the basic concepts and definitions in mechanics as science about forces, that is, movement and body deformation under the influence of forces, - to understand the need of those concepts in the context of studying how to set the problem and how to solve the problem, - to develop the ability to recognize mechanics problems in the sense of identification, model formulation and possible solution, - to know basic principles of engineering thinking and decision making.

2. Educational outcomes (acquired knowledge):

After the course, students should be able to: - Recognize diverse movements of real systems, effects of diverse actions (force and force connections), analyze friction and energy balance - Apply the acquired knowledge in the movement analysis on concrete mechanical systems, i.e. identify, formulate (idealize the practical problems by applying adequate mathematical model) and solve problems in the field that implies the content that follows - Communicate with other engineers and work in a team - Relate and apply the acquired knowledge in engineering disciplines that include mechanics as their tool - Practice individually, work hard and think creatively - Demonstrate understanding and skills, and use the learn knowledge for designing new solutions for engineering problems.

3. Course content/structure:

Studying objects and their basic movement. Force, momentum for the point (and axis) coupling forces. Force systems and coupling forces. Fundamental questions of mechanics: how, why, how many, when? Basic attributes of point movement. Global and local properties of the rigid body motion. Matrix method of assigning movement. Euler's theorem. The complex movement of the point. Theorem Koriolis. Axioms of dynamics. Momentum, angular momentum for the selected point, the kinetic energy of the material point and theorems on their changes. Basic theorems of the system dynamics. Equivalent systems of forces. Newton-Euler equations. Canning Theory. General case of the rigid body motion. Linear complementary problems. Poisson's Theorem. Invariants of the force system. Balance conditions of one and more bodies. External and internal forces. Solid body. Stress. Analysis of deformation. Compatibility conditions. Constitutive equations.

4. Teaching methods:

The deductive method is used in the lectures. A part of the examples is done in the lectures, and the rest is done in practice but also independently at home as a homework assignment by use of computer. Apart from regular consultations, there are also pre-examination consultations. Examples always start with the simplest problems and end with specific engineering applications. For example, engine crankshaft, ball bearing, universal (Cardan) joint , disk on the rough plane; free, forced and damped oscillations with one and two degrees of freedom, the dynamic damper, the dynamic balancing of rotors and the like. In the examples, different models of friction, elements of the impact theory, Painleve paradox as well as the load of carrier lines are studied.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	AP Markeev	Teorijska mehanika	Nauka Moskva	1999
2,	YC Fung	A first course in continuum mechanics	Prentice Hall	1994
3,	H Josephs and RL Houston	Dynamics of mechanical systems	CRC Press Boca Raton	2002

Table 5.2 Course specification

Course:		Electronics
Course id:	BMI99	
Number of ECTS:	5	

Teachers:	Damnjanović S. Mirjana, Nađ F. Laslo
Course status:	Mandatory

Number of active teaching classes (weekly)

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

Precondition courses	None

1. Educational goal:

Acquiring knowledge in the field of electronics.

2. Educational outcomes (acquired knowledge):

Acquiring experience in the laboratory practice. Training in the field of measuring results processing. Mastering the operation principles of the measuring instruments. Studying the measurement methods.

3. Course content/structure:

Measuring instruments. Analog measuring instruments: An instrument with a moving coil. Extending the measuring instrument range by the moving coil. An instrument with a movable iron. Electrodynamic instrument. Extending the voltmeter and ampere meter measuring range. Electronic measuring instruments. Digital measuring instruments: Counting, Measuring frequency, Measuring time, Measuring the phase shift. Counter Timer. DA converters. Function generators. AD converters. The method of voltage compensation, the method of converting voltage to frequency, the method of double slope, Sigma-Delta method. Digital multimeters. Oscilloscopes: Time base, Trigger time base, XY mode. Multi-channel oscilloscopes. Digital oscilloscopes. Measuring bridges: DC measuring bridges. Wheatstone bridge, Kelvin bridge. AC measuring bridge. Unbalanced measuring bridges. Measuring bridges with multiple sources. Measuring compensators: DC measuring compensators. Alternating measuring compensators. Measurement of electrical quantities. Measuring the resistance/impedance, Inductance measurement/mutual inductance, Measuring capacitance, Measuring electric power. Measurement uncertainty. Measurement error: a rough mistake, systematic error, random errors. Measurement uncertainty: The standard measurement uncertainty, Type "A", Type "B". Combined measurement uncertainty, Expanded measurement uncertainty.

4. Teaching methods:

Lectures. Laboratory Practice. Consultations

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Miloš Živanov	Elektronika - komponente i pojačivačka kola	Univerzitet u Novom Sadu	2001

Table 5.2 Course specification

Course:		
Course id:	BMI100	**Anatomy for engineers**
Number of ECTS:	5	
Teacher:		Stojšić Džunja M. Ljubica
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:

Introduce students to the basics of anatomy of musculoskeletal system (bones, joints and muscles), splanchnology (respiratory, digestive, cardiovascular, endocrine, genitourinary system), the nervous system and senses. The purpose of this course is to acquire basic knowledge in a systematic, clinical and applied topographical anatomy that will be useful as a basis for further education.

2. Educational outcomes (acquired knowledge):

Mastering the practical knowledge of anatomy that will form the basis for understanding the clinical disciplines: identifying morphological and functional characteristics of the basic elements of individual organs and organ systems and their relationships.

3. Course content/structure:

Osteology. Artrology and miology. Angiology. Splanchnology.Neurology. Senses.

4. Teaching methods:

Lectures. Practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	50.00
Homework	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Ljubica Stojšić-Džunja	Anatomija čoveka	Medicinski fakultet, Novi Sad	-
2,	Jovanović S.	Anatomski atlas	Naučna knjiga, Beograd	-

Table 5.2 Course specification

Course:		Introduction to Medical Informatics
Course id:	BMI101	
Number of ECTS:	5	
Teacher:		Konjović D. Zora
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

To enable students to participate processes for developing ICT components in the field of medicine and health care.

2. Educational outcomes (acquired knowledge):

Student is able to: understand the subject of medical informatics and recognize basic disciplines that medical informatics relies on; to understand basic ICT capabilities and basic possibilities for applying computer hardware, software and communication technologies in medicine and health care; to apply Internet services for gathering information necessary for ICT components and systems development; to understand standardization process and basic standards of medical informatics; to understand CD and EHR conceptual model; to understand the notion of electronic health service and architecture of Internet based electronic health services; to stick with ICT trends and select appropriate technologies for applications in health care.

3. Course content/structure:

Medical informatics as discipline and organizations in medical informatics. Availability of medical information and medical information exchange. Clinical documents' and Electronic Health Record's architecture. Standardization in medical informatics. Advanced ICT in medicine, eHealth and eHealth services.

4. Teaching methods:

Classes, computer exercises, consultations

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	50.00	Oral part of the exam	Yes	30.00
Term paper	Yes	20.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Enrico Coiera	Guide to Health Informatics, 2 edition	Hodder Arnold Publishers	2003
2,	Zora Konjović	Informatika u zdravstvu	Autorski reprint	2012
3,	Grupa autora	Wikipedia Handbook on Biomedical Informatics	Wikipedia	2011

Table 5.2 Course specification

Course:		
Course id:	BMI102	**Communication Systems**
Number of ECTS:	5	

Teachers:	Stefanović D. Čedomir, Vukobratović V. Dejan
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Acquisition of basic knowledge about the communication systems: basic blocks and their roles on the transmit side, the basic characteristics of the channel and the basic blocks and their characteristics on the receiving side. The student should gain a global picture of the sequence of processing performed by each of the blocks and the ability to implement a complete communication chain for the realization of basic communication systems in MATLAB and interpret the results.

2. Educational outcomes (acquired knowledge):

Students who successfully master the material in this course will be able to: - Identify and explain the basic blocks of the communication system on the side of the transmitter and the receiver and describe their main features - Implement a basic implementation of each of the communication units using MATLAB's Communications Toolbox and set its basic parameters - Implement a complete simulation chain of the basic realization of the communication system in MATLAB and adjusts and adapts to the basic parameters of the basic blocks within a complex system - Present and interpret the results of a simulation of communication systems in MATLAB.

3. Course content/structure:

Getting to know your subject. Introduction to MATLAB. Short repetition of basic concepts in MATLAB: script files, functions, vectors and matrices, useful built-in functions. An intuitive introduction to signals in communication: information-carrying signal as analog and digital signals, the signals in the baseband and modulated signals, signal strength, signal spectrum, spectrum efficiency. Signal generation in MATLAB. An intuitive introduction to communication channels, transmission media: wired and wireless transmission channel noise, the basic channel models: a channel with Gaussian noise, the signal-noise ratio in the channel. More advanced models of communication channels, and their parameters. Generating channel model in MATLAB. The basic model of the communication system. Description and sequence of individual blocks at sender and receiver side. Implementation of the basic model of the communication system in MATLAB. Methods of calculating the probability of errors in transmission, the bit error probability and the probability of error messages through simulation experiments. The signal source. Basic principles simulations of the complete communication system. Examples of implementation of basic communication systems in MATLAB. Execution of simulation experiments and display in MATLAB.

4. Teaching methods:

Lectures, lab exercise.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Practical part of the exam - tasks	Yes	70.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	John Proakis, Masoud Salehi, Gerhard Bauch	Contemporary Communication Systems using MATLAB	Cengage	2012

Table 5.2 Course specification

Course:		
Course id:	BMI92	**Mathematics 2**
Number of ECTS:	8	
Teachers:		Grbić P. Tatjana, Adžić Z. Nevenka, Mihailović P. Biljana, Nikolić M. Aleksandar, Sladoje Matić I. Nataša
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	4	0	0	0

Precondition courses	None

1. Educational goal:

Enabling students to develop abstract thinking and acquire basic knowledge in the field mathematical analysis.

2. Educational outcomes (acquired knowledge):

Ability to use the acquired knowledge in further education in engineering subjects so as to postulate and solve mathematical models in the field of engineering sciences.

3. Course content/structure:

Theoretical lectures: Real functions of a real variable (differential calculus and application), indefinite integral; definite integral and application;improper integral. Real functions of several real variables (limits,continuity, uniform continuity, differential calculus and application).Ordinary differential equations of first and higher order. Lineardifferential equations of n-th order.   Numerical order, functional sequence and functional order, degree oforder, Fourier order. Double, curved-line integral. Complex analysis:Cauchy theorems andformulasLaurent series, singularities , residues. Furious order and transformation. Laplace transform and inverse Laplace transform and application.   Practice (Exercises): Corresponding examples from theoretical lectures are done in exercises, thus practicing the taught lectures and understanding them better.

4. Teaching methods:

Lectures; Numerical calculation practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	5.00	Oral part of the exam	Yes	30.00
Exercise attendance	Yes	3.00	Practical part of the exam - tasks	Yes	40.00
Lecture attendance	Yes	2.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Momčilo Novković, Ilija Kovačević, Biljana Carić, Slavica Medić, Vladimir Ćurić	Zbirka rešenih zadataka iz matematičke analize 1	FTN, Novi Sad	2011
2,	Ilija Kovačević, Vojislav Marić, Nebojša Ralević, Momčilo Novković, BiljanaCarić, Slavica Medić	Matematička analiza 1: diferencijalni i integralni račun; obične diferencijalne jednačine	FTNI, Novi Sad	2011
3,	Mila Stojaković	Matematička analiza 2	Vedes, Beograd	2003
4,	Nebojša Ralević, Lidija Čomić, Jovanka Pantović	Zbirka rešenih zadataka iz matematičke analize 2	FTN, Novi Sad	2009

Table 5.2 Course specification

Course:		
Course id:	BMI80	
Number of ECTS:	2	
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranj F. Jelisaveta
Course status:		Mandatory

English 1

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

Precondition courses	None

1. Educational goal:

Improvement in the area of vocabulary and language skills related to the more complex sentence structure. Systematization of the previously acquired knowledge related to English grammar. Correct use of language according to the given situation and environment.

2. Educational outcomes (acquired knowledge):

Students are able to correctly use English language in everyday situations and express their opinion about everyday topics. They are able to understand simple English texts and identify general topic and main ideas of the text. Have good command over the English grammar and apply grammatical rules in written and spoken communication.

3. Course content/structure:

Systematization of English tenses. Expanding the existing vocabulary. Developing skills for reading and comprehending a text in English. Correct use of language depending on the situation and environment.

4. Teaching methods:

The emphasis is on students' activities during classes, their interaction with the teacher and among themselves. Communicative method is used mostly during the course.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	70.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Sarah Phipot	Headway Academic Skills	OUP	2010

Table 5.2 Course specification

Course:		Microprocessor Systems in Medicine
Course id:	BMI103	
Number of ECTS:	5	
Teacher:	Malbaša D. Veljko	
Course status:	Mandatory	

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

Precondition courses	None

1. Educational goal:

The objective of the course is to teach the students modeling, modular design, simulation and implementation of computer hardware and design and testing of application software in high level programming language for intelligent, microprocessor based medical devices.

2. Educational outcomes (acquired knowledge):

Student who successfully completes the course will be able to perform the following tasks for a specified, low complexity, microprocessor based medical device:
- Design, simulate and implement hardware based on the given specification.
- Model, design, simulate and implement applicative software in a high level programming language.
- Integrate hardware and software components and test functionality of implemented intelligent medical device.

3. Course content/structure:

Design of intelligent, microprocessor and microcontroller based medical devices. Use of software tools in design and simulation of microcomputer systems. Structure of embedded systems software. Design, implementation and testing of applicative system programs. Use of high level programming languages and software tools in design and implementation of microcomputer software. Microcontroller interface with input / output devices used in medicine. Introduction to real time embedded systems. Real examples of embedded systems in medical devices. Communication and networking of microcontrollers with medical instrumentation.

4. Teaching methods:

Lectures, auditory exercises, laboratory exercises, consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	Yes	5.00	Final exam - part one	Yes	25.00
Laboratory exercise defence	Yes	40.00	Final exam - part two	Yes	25.00
Lecture attendance	Yes	5.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Veljko Malbaša	Skripte - u pripremi	Fakultet tehničkih nauka	-
2,	Tim Wilmshurst	Designing Embedded Systems with PIC Microcontrollers	Newnes	2009
3,	Ramesh Gaonkar	The Fundamentals of Microcontrollers and Applications in Embedded Systems with PIC	Thomson Delmar Learning	2007

Table 5.2 Course specification

Course:		Electrical and electronic measurements
Course id:	EIEEM	
Number of ECTS:	5	
Teachers:		Bojković J. Gordana, Župunski Ž. Ivan
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Acquiring knowledge in the field of electrical and electronic measurements.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

Lectures. Laboratory Practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Written part of the exam - tasks and theory	Yes	40.00
			Oral part of the exam	Yes	30.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	I. Bagarić	Metrologija električnih veličina merenja i merni instrumenti	Nauka Beograd	1996
2,	Robert A. Witte	Electronic Test Instruments Theory and Applications	PTR Prentice Hall	1993
3,	S. Tumanski	Principles of Electrical Measurement	Taylor & Francis	2006
4,	Alan S. Morris	Measurement & Instrumentation Principles	Butterworth-Heinemann, Oxford	2001
5,	Walt Kester	Practical Design Techniques for Sensor Signal Conditioning	Analog Devices	1999

Table 5.2 Course specification

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

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

Precondition courses	None

1. Educational goal:

Acquiring basic knowledge in the field of biomedical engineering.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Cell membrane, resting potential, action potential. Electrophysiological amplifiers and electrophysiological signal acquisition. Electrodes for electrophysiological measurements and electrical stimulation. Electroneurography, conduction velocity of peripheral nerves. Electromyography, method and instrumentation for myoelectric signal measurement. Electroencephalography, method and instrumentation. Electrocardiography, basics of hart functioning. ECG instrumentation. Characteristic waveforms of ECG. Blood pressure and pulse measurement. Electrical stimulation, physiological bases. Construction of modern electronic stimulators. Pacemaker, classification and methods of operation. Functional electrical stimulation.

4. Teaching methods:

Lectures, laboratory practice, project tasks. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Coloquium exam	No	20.00
Homework	Yes	5.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00	Practical part of the exam - tasks	Yes	20.00
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	D.Popović, M. Popović	Biomedicinska instrumentacija i merenja	Nauka, Beograd	1997
2,	A.C. Guyton, J.E. Hall	Medicinska fiziologija	Savremena administracija, Beograd	1999

Table 5.2 Course specification

Course:		Statistical basics, processing and modelling of biomedical signals
Course id:	BMI105	
Number of ECTS:	7	

Teachers:	Bajić D. Dragana, Lončar-Turukalo G. Tatjana

Course status:	Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	0	2	0	2

Precondition courses	None

1. Educational goal:

Assessing application possibilities of biomedical signal processing methods in treatment and diagnostic purposes. In numerous instances, primarily imaging modalities, students should perceive the importance of signal processing in the progress and development of medical diagnostics.The theoretical basis and examples of basic methods of signal processing and its biomedical application will be introduced. The students will gain understanding of basic biomedical signals and understanding of the importance of the principles of modeling and analysis of biological systems

2. Educational outcomes (acquired knowledge):

Students will be introduced to basic principles of digital signal processing with application in biomedical signals. Application of the theory of probability and statistics in signal processing. Stochastic perception of biomedical signals through the prism of random processes, their characteristics and principles of their analysis. The principles of image reconstruction from projections in medical imaging modalities.

3. Course content/structure:

Introduction: Fourier transform, discrete Fourier transform, Z transform, convolution and correlation. - The statistical basis of the theory of probability with applications in signal processing (Bayes' theorem, random variables, moments, correlation and independence of random variables, the most important types of probability distributions, the central limit theorem) - Random processes (ergodicity, stationarity) - Description of the main characteristics of biomedical signals, biosignals physiological origins, principles and basic signal generation preprocessing procedure to display and further analysis. Types and examples of biomedical signals: action potentials, EKG, EMG, EEG, ERP, speech signal, EGG, elimination of artifacts, analysis of waveforms and estimates of their complexity, the filtering in the time and frequency domain - The basic methods of imaging diagnostics, imaging principles, image reconstruction from projections (Radon transform), the application of Radon transform and characteristic artifacts in the image reconstruction of different modalities (CT, SPECT, PET, NMR, ultrasound). - Modeling biomedical systems, point processes, parametric modeling, and application

4. Teaching methods:

Lectures and lab excersices

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,	RH Brown, RH Smallwood, DC Barber, PV Lawford, DR Hose	Medical Physics and Biomedical engineering	IOP Institute of Physics Publishing	1999
2,	Rangaraj M. Rangayyan	Biomedical Signal Analysis a Case-Study Approach	IEEE Press, Willey Interscience	2002
3,	John D. Enderle, Susan M. Blanchard, Joseph D Bronzino	Introduction to Biomedical Engineering	Elsevier Academic Press	2005
4,	Miodrag V. Popović	Digitalna obrada signala	Nauka	1997
5,	E. Ifeachor and B. Jervis	DIGITAL SIGNAL PROCESSING – A Practical Approach	Prentice Hall	1993
6,	G. Lukatela	Statistička teorija telekomunikacija i teorija informacija	Građevinska knjiga	1991

Table 5.2 Course specification

Course:		
Course id:	BMI104	**Physiology with pathophysiology**
Number of ECTS:	5	

Teacher:	Rosić -. Mirko
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:

The main objectives of education in physiology are to introduce students to the functioning of the organs and organ systems and their organization in complex functional systems.

2. Educational outcomes (acquired knowledge):

Introduce students to the basic mechanisms of functioning of various organs and organ systems. Introduction to basic laboratory procedures; students acquire skills in performing laboratory tests. Students acquire knowledge in collecting and preparing the blood and urine, the basic methods of laboratory analysis of blood and urine, which are used in practice (ESR, hematocrit, erythrocyte count, leukocyte count, differential blood count, bleeding time and coagulation, general characteristics and chemical composition of urine). The student should acquire basic knowledge about electrophysiological methods and instrumentation (ECG, EEG, EMNG, EP) and signal evaluation. Students should know the procedures for arterial blood pressure measurement, heart auscultation, lung volumes and capacities.

3. Course content/structure:

Introduction to physiology. Respiration. Blood. Vascular and lymphatic system. Digestion, absorption. Turnover of matter and energy. Thermoregulation. Excretion. Irritable tissue. Analyzers. Muscles. Autonomic nervous system. Endocrinology. Physiology of the central nervous system.

4. Teaching methods:

Lectures. Practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	50.00
Homework	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	A.C. Guyton, J.E. Hall	Medicinska fiziologija	Savremena administracija, Beograd	1999

Table 5.2 Course specification

Course:		
Course id:	BMI81	**English 2**
Number of ECTS:	2	
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranj F. Jelisaveta
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Introduction to English for special purposes.Basic terminology. Developing strategies for understanding foreign language texts. Developing the ability to read and comprehend original English texts related to various aspects of biomedical engineering. Developing the skills of oral and written communication related to these topics using adequate vocabulary and complex sentence structure.

2. Educational outcomes (acquired knowledge):

Students acquire terminology related to science, engineering and their field of studying. They can understand the literature in their field and communicate in English on topic related to their field of expertise using sentence structure characteristics for their future profession.

3. Course content/structure:

Reading texts in English related to various aspects in the field of study. Development of strategies for understanding scientific texts such as: skimming, scanning, comparing sources, using context, using background knowledge, etc. Acquiring most frequent terms related to future profession. Adopting language functions such as: comparison, classification, description relations, etc. Most frequent prefixes, suffixes, compounds and collocations. Passive constructions, participles. Reduced relative clauses (active and passive), reduced time clauses (active and passive).

4. Teaching methods:

The main focus is on students' activity during classes, their interaction with each other and teacher. Communicative method of language teaching is used. Exercises are prepared so that they facilitate the understanding of the text and practice the vocabulary and other characteristics of the language related to the profession. Some of the exercises are prepared so that they inspire students to practice their language skills by using their wider knowledge of the subject matter.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Written part of the exam - tasks and theory	Yes	40.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	E. Glendinning, N. Glendinning	Oxford English for Electrical and Mechanical Engineering	OUP	2008

Table 5.2 Course specification

Course:		
Course id:	BMI125	**Biological Control Systems**
Number of ECTS:	6	

Teachers:	Kulić J. Filip, Bojanić M. Dubravka, Čongradac D. Velimir, Petrovački Lj. Nebojša
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Students learn about theoretical and practical bases of science of system control with emphasis on biological system control.

2. Educational outcomes (acquired knowledge):

Acquired basic knowledge of system control. Ability to apply acquired knowledge to the analysis of biological systems.The acquired knowledge can be used in solving practical engineering problems and forms a basis for future engineering subjects.

3. Course content/structure:

Linear time invariant systems. Impulse response. Laplace transform. Transfer function. Block diagram models. Signal flow graph models. Algebra funkcija prenosa. Linear convolution. Linear models. Superposition theorem. State space models. Analasis of sistem stability. Control of the transient response. Stady-state error. Analysis and syntheses of sistem in frequency domain. Multiple-input multiple-output systems.

4. Teaching methods:

Lectures, calculation. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00	Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Michael C.K. Khoo	Physiological Control Systems: Analysis, Simulation and Estimation	John Wiley & Sons, inc., Hoboken, New Jersey	2000
2,	Milić Stojić	Sistemi automatskog upravljanja	Elektronski fakultet, Niš	2004
3,	Branko Kovačević, Željko Đurović	Sistemi automatskog upravljanja – zbornik rešenih zadataka	Nauka, Beograd	1995

Table 5.2 Course specification

Course:		
Course id:	BMI124	System Modeling and Simulation
Number of ECTS:	6	
Teachers:		Erdeljan M. Aleksandar, Jorgovanović Đ. Nikola, Čapko Lj. Darko
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Mastering theoretical and practical basics of system modeling and simulation.

2. Educational outcomes (acquired knowledge):

- Matlab, toolboxes,
- role of modelling and simulation and their practical applications,
- principles of dynamical systems modelling,
- understanding methods and techniques for dinamic models analysis and syntheses,
- ability to describe systems by differential equations,
- ability to perform model simulation,
- acquired knowledge about methods for identification of unknown model parameters.
Acquired knowledge can be used in solving specific engineering problems, and also present a basis for further understanding of professional courses.

3. Course content/structure:

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

4. Teaching methods:

Lectures. Computer practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	5.00	Coloquium exam	No	20.00
Complex exercises	Yes	5.00	Coloquium exam	No	20.00
Complex exercises	Yes	5.00	Oral part of the exam	Yes	30.00
Complex exercises	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	John Enderle, Jozeph Bronzino	Introduction to Biomedical Engineering	Academic Press	2012
2,	Michael C.K. Khoo	Physiological Control Systems: Analysis, Simulation and Estimation	John Wiley & Sons, inc., Hoboken, New Jersey	2000
3,	Vincent C. Rideout	Mathematical and Computer Modeling of Physiological Systems	Prentice-Hall	1991
4,	Duane Hanselman, Bruce Littlefield	Mastering MATLAB 6 - A Comprehensive Tutorial and Reference	Prantice Hall	2001
5,	C.M.Close, D.K.Frederick, J.C.Newell	Modeling and Analysis of Dynamic Systems	John Wiley & Sons, Inc.	2002

Table 5.2 Course specification

Course:		
Course id:	BMI127	**Biomechanics**
Number of ECTS:	8	
Teachers:		Spasić T. Dragan, Maretić B. Ratko, Zuković M. Miodrag, Grahovac M. Nenad
Course status:		Mandatory

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
4	2	0	0	2

Precondition courses	None

1. Educational goal:

Professor's intention is to teach the student the following through this course: - to understand biomechanics as development, generalization an application of mechanics in the analysis of biosystems, for understanding physiological state and improvement of diagnoses and treatment of both injuries and illness. Biosystems are more complex in both function and form then technical systems.

2. Educational outcomes (acquired knowledge):

After this course student should be able: to connect knowledge acquired in course of Mechanics with nonuniform, descriptive biological material and to formulate a model for quantitative analysis of biomechanical systems to solve obtained equations and to understand the influence of aging, disease and trauma on mechanical function of systems in human body comparing to mechanical functions of the systems in physiological state for better choice of necessary intervention.

3. Course content/structure:

External forces and their influence o then human body and its motion. Motion of multibody system with visco-elastic elements. Mathematical models in biomechanics. Terminology, structure and functions of skeletal, muscular and nervous system. Internal forces in human body and their influence on a body and its motion. Rheological properties of tissues and tissues for restoration. Relations between stress and strain. Laws of motion and energy balance. Biomechanics of bones, joints and ligaments. Types and structure of muscles as movement initiator. Muscle contraction force. Nervous system as a steering part of musculoskeletal system. Axioms of termomechanics. Metabolism: energy, heat, work and power of the human body. Specifics of mathematical modelling and numerical simulations of the motion of the human body: dynamical modelling of a joints in the human body with special attention to the head-neck connection, models for analysis of impact, with special attention to biomechanical response of a human bodyand head during frontal impact. Application of mathematical theory of elastic rods in biomechanics. Application of biomechanicsl models in rehabilitation, exercises and sport. Usage of prosthetic devices for mechanical functions of the human body. Oscillations of biosystems.

4. Teaching methods:

Lectures, auditory practice, computational practice. Homework, as a method for checking of understanding and usage of terms and developed methods.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	30.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Homework	Yes	5.00			
Homework	Yes	5.00			
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Aydın Tözeren	Human body dynamics	Springer	2000
2,	Peter McGinnis	Biomechanics of sport and exercise	Human Kinetics	2005
3,	Yuan-Cheng Fung	Biomechanics	Springer	1993
4,	Irving Herman	Physics of human body	Springer	2007
5,	J. Wilmore, D. Costill & L. Kenney	Physiology of sport and exercise	Human Kinetics	2008

Table 5.2 Course specification

Course:		
Course id:	BMI106	**Rehabilitation devices and systems**
Number of ECTS:	5	
Teachers:		Herakovič S. Niko, Kozak V. Dražen, Ostojić M. Gordana, Stankovski V. Stevan
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

The aim of the course is to train students to understand the principles of rehabilitation devices and systems in biomedicine, as well as to train students for their appropriate use.

2. Educational outcomes (acquired knowledge):

Students will be able to understand the principles of rehabilitation devices and systems, based on which they will be able to design rehabilitation equipment and systems, and to maintain and make simpler rehabilitation devices and systems.

3. Course content/structure:

Introduction to rehabilitation. Bases for design of rehabilitation devices. Materials for the rehabilitation devices. Mechanical components of rehabilitation devices. Pneumatic components of rehabilitation devices. Hydraulic components of rehabilitation devices. Electrical components of rehabilitation devices. Rehabilitation systems. Control and maintenance of rehabilitation devices and systems.

4. Teaching methods:

Teaching is conducted through lectures and exercises. During the exercises the student is required to do practice-oriented tasks. Knowledge testing is carried out through two tests and the final exam, while before that student has to do all the exercises provided. The final exam is in written form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance	Yes	5.00	Coloquium exam	No	20.00
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Rory A Cooper	An Introduction to Rehabilitation Engineering	CRC Press	2006
2,	Raymond V. Smith, John H. Leslie Jr.	Rehabilitation Engineering	CRC Press	1990
3,	Stankovski S, Ostojić G	Rehabilitacioni sistemi i uređaji - u pripremi	FTN	2013

Table 5.2 Course specification

Course:		Materials and fabrication technologies in medical devices
Course id:	BMI107	
Number of ECTS:	5	

Teachers:	Živanov D. Ljiljana, Crnojević-Bengin B. Vesna, Stojanović M. Goran
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Students will be qualified to understand properties of often used materials in biomedicine as well as application of these materials in modern medical devices.

2. Educational outcomes (acquired knowledge):

- understanding properties and application areas of most often used materials in biomedicine
- an ability to apply bioceramics, artificial materials, composites, etc. in medicine and stomatology
- an ability to manufacture components and systems based on biomaterials using LTCC technology
- an ability to manufacture flexible electronic components applying organic and nonorganic materials

3. Course content/structure:

- division (conventional) of electronic materials and their properties - fundamentals of artificial electromagnetic materials and their application in medicine - overview of materials important for the biomedicine field - bioceramics (barium-titanate for ultrasound probes, ferrites for suppression of noises in medical devices, superconductive magnets for application in magnetic resonance imaging) - biomedical composites - biopolymers (teflon as an isolated material for probes in medicine, polymeric wireless implants for measuring blood sugar) - biomaterials for cardiovascular applications (Ag/AgCl for electrodes) - biomaterials for dental application - biomaterials for orthopedic application - biomaterials for tissue reparation - overview of available fabrication technologies and comparison of characteristics and application possibilities - LTCC technology for manufacturing sensors in biomedicine, lab-on-chip, etc. - PCB technology and softwares for design circuits for PCB - technologies which can use flexible substrates (ink-jet technology for realization of various implantable sensors)

4. Teaching methods:

Lectures. Auditory exercises. Laboratory exercises. Consultations. Experimental projects.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Final exam - part one	Yes	35.00
			Final exam - part two	Yes	35.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Goran Stojanović, Ljiljana Živanov	Materijali u elektrotehnici	FTN izdavaštvo	2007
2,	H. L. Kwok	Electronic materials	PWS Publishing Company	1997
3,	Rolf E. Hummel	Electronic Properties of Materials	Springer, 3rd edition	2001
4,	Lj. Živanov, G. Stojanović, A. Marić, G. Radosavljević	Materijali u elektrotehnici, zbirka rešenih zadataka	Univerzitet u Novom Sadu, Fakultet tehničkih nauka	2007

Table 5.2 Course specification

Course:		
Course id:	BMI108	RF and microwaves in medicine
Number of ECTS:	5	
Teacher:		Crnojević-Bengin B. Vesna
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Capability to understand fundamental concepts, characteristics and modes of propagation of radio and microwave frequency waves and their application in medicine and medical devices.

2. Educational outcomes (acquired knowledge):

Capability to design and build microwave guided wave structures; understanding principles of operation of ultrasound devices used in medicine and dentistry, in diagnostics and therapy;Capability to develop and use simple medical devices based on the Doppler effect; Capability to understand principles of microwave (EM field) heating and design of related therapeutical devices.

3. Course content/structure:

Frequency spectrum, allocations and medical applications. Propagation of EM waves. (Propagation through various media, boundary conditions. Energy and power. Reflection. Polarization. Guided waves. Modes of propagation.) Resonance and resonant circuits. Guided wave structures.Resonant techniques for measurement of environmental parameters. Propagation of acoustic waves and EM-acoustic analogies. Sonography. Propagation of ultrasonic waves. Doppler effect and medical applciaitons. Microwave (EM) heating and applciaitons. Diathermy as a form of electrotherapy.

4. Teaching methods:

Lectures. Auditory excercizes. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Homework	Yes	5.00			
Lecture attendance	Yes	5.00			
Project task	Yes	15.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Anthony S-Y Leong	Microwave Applications in Pathology	NOVA	2009
2,	André Vander Vorst , Arye Rosen, Youji Kotsuka	RF/Microwave Interaction with Biological Tissues	Wiley	2006
3,	Mike Golio	Microwave and RF Product Applications	CRC PRESS	2003

Table 5.2 Course specification

Course:		
Course id:	BMI109	Neurophysiology and rehabilitation medicine
Number of ECTS:	6	

Teacher:	Cvijanović B. Milan

Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Mastering theoretical and practical knowledge in the field of neurophysiology and medical rehabilitation.

2. Educational outcomes (acquired knowledge):

Mastering theoretical and practical knowledge in the field of neurophysiology and medical rehabilitation.

3. Course content/structure:

1.ELECTOENCEFALOGRAPHY– EEG: electrical activity of brain. Electrocorticography, EEG cartography, stereo EEG, EEG holter, EEG telemetry. 2.ELEKTROMIONEUROGRAPHY – EMNG: peripheral nervous and motor system diagnaostic. 3.EVOKED POTENTIALS : visual evoked potentials – VEP, somatosensory EP - SSEP, brainstem EP. 4. ULTRASOUND DIAGNOSTIC METHODS: power doppler sonography, trascranial dopler TCD. 5. COMPUTED TOMOGRAPHY – CT, MAGNETIC RESONANCE - MR AND POSITRON EMISSION TOMOGRAPHY – PET. 6. PRACTICE IN CLINICS FOR NEUROLOGY AND RADIOLOGY OF CLINICAL CENTER OF VOJVODINA, NOVI SAD

4. Teaching methods:

Lectures. Practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Oral part of the exam	Yes	50.00
Homework	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Nedvidek Boris	Osnovi fikalne medicine i medicinske rehabilitacije	Medicinski fakultet Novi Sad	2003
2,	Đuric Stojanka, Mihaljev-Martinov Jelena	Klinička neurofiziologija	Prosveta, Niš	1998
3,	Stojanović Sanja, Pejnović Predrag, Til Viktor	Kompjuterizovana tomografija centralnog nervnog sistema	Novi Sad, S. Stojanović	2007
4,	Lučić Miloš, Koprivšek Katarina, ur.	Magnetno rezonantni imidžing: osnovni kurs	Grafit, Novi Sad	2008

Table 5.2 Course specification

Course:		
Course id:	EK412	**Shape Recognition**
Number of ECTS:	5	

Teachers:	Crnojević S. Vladimir, Petrović S. Vladimir
Course status:	Mandatory

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

Precondition courses

1. Educational goal:

Introduction to the basic concepts in the field of shape recognition; introduction to the contemporary methods for shape recognition.

2. Educational outcomes (acquired knowledge):

An overview of principles of contemporary methods for shape recognition.
Ability to understand basic principles and methods used in shape recognition, as well as the possibility of simple knowledge extension working on the specific problem.

3. Course content/structure:

Statistical shape recognition: Bayes decision theory, parameter estimation and distribution, nearest neighbor method, linear discriminant. Dimensionality reduction: PCA analysis, Fisher discriminant, feature subset selection. Clustering, neural networks, Support Vector Machines, Hidden Markov models. Joint Learning.

4. Teaching methods:

Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Duda, Hart and Stork	Pattern Classification	2nd Ed.	2002

Table 5.2 Course specification

Course:			
Course id:	BM129A		**Digital Image Processing**
Number of ECTS:	5		
Teacher:		Crnojević S. Vladimir	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

The goal of this course is to provide the students with technical skills necessary to get familiar with contemporary digital image processing. Through theoretical and practical work in accordance with good practices world wide, students will learn how to apply digital image processing techniques in practical problems.

2. Educational outcomes (acquired knowledge):

Through this course students will get elementary knowledge necessary for image analysis and processing, both from theoretical point of view, as well as from the point of practical realization of various digital image processing algorithms.

3. Course content/structure:

Digital image processing introduction. Elements of digital image processing. Image enhancement in space domain. Image enhancement in frequency domain. Image Restoration. Color image processing. Image compression. Morphological image processing. Image segmentation.

4. Teaching methods:

Lectures, auditory and computer lab exercises.

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,	Rafael Gonzalez, Richard Woods	Digital Image Processing, 2nd Ed.	Prentice Hall	2002
2,	Milan Sonka, Vaclav Hlavac, Roger Boyle	Image Processing, Analysis and Machine Vision	Thompson Learning	2008

Table 5.2 Course specification

Course:		
Course id:	BM130A	**Digital control systems in bioengineering**
Number of ECTS:	6	

Teachers:	Jeličić D. Zoran, Rapaić R. Milan

Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Students gain theoretical and practical knowledge about computer control systems.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Introduction to digital control systems. Digital control system components. Processes of sample and hold. z-transform and discrete transfer function. Realization and characteristics of discrete transfer function. State space digital models. Digital system analysis. Digital system stability. Closed-loop systems with digital computer compensation. Multiple-input multiple-output digital systems. Implementation of digital control algorithms.

4. Teaching methods:

Lectures, computer practice, laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Written part of the exam - tasks and theory	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Milić Stojić	Digitalni sistemi upravljanja	Akademska misao	2004
2,	R. Isermann	Digital Control Systems	Springer-Verlag	1989
3,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice Hall	1997

Table 5.2 Course specification

Course:		
Course id:	BMI111	**Medical ethics and sociology**
Number of ECTS:	2	
Teacher:	Doronjski R. Aleksandra	
Course status:	Elective	

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

Precondition courses	None

1. Educational goal:

To encourage students to work on the psychological and moral self development for correct attitude and behavior in their future profession. Introduce to students the most important achievements of sociological science and gaining insight into the specific sociological way of thinking.

2. Educational outcomes (acquired knowledge):

To give students a basic knowledge of all oaths and codes of medical ethics, as well as deontological and legal norms and regulations pertaining to the operations of health care workers. A better understanding of the problems of man, society and history, as well as the self-understanding of ones profession and existence.

3. Course content/structure:

The concept of moral, morality, ethics and deontology, oaths and codes. Ethical attitude of health workers towards patients in certain medical fields. Great and eternal issues and ethical dilemmas (euthanasia, medical secret, Artificial abortion ...). Ethical attitude of health workers towards the community, colleagues and the profession. Medical ethics and medical law. Subject and methods of sociology. The concept of society and elements of the social structure. Culture as distinct environmentalism. Social processes and changes. The main features of the contemporary Serbian society.

4. Teaching methods:

Lectures.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Theoretical part of the exam	Yes	50.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Berger, Piter, Kelner, Hansfrid	Sociologija u novom ključu	Gradina, Niš	1991
2,	Gidens, Entoni	Sociologija	Ekonomski fakultet, Beograd	2003
3,	Marić J.	Medicinska etika	Megraf, Beograd	2002
4,	Tripković Milan	Osnovi sociologije	Stilos, Novi Sad	x

Table 5.2 Course specification

Course:			
Course id:	BMI82B	**Nutrition**	
Number of ECTS:	2		
Teacher:		Vojnović A. Matilda	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

Gaining knowledge about food and nutrition, (knowledge of health promotion using a well-balanced and rational diet), prevent diseases due to malnutrition and food insecure.

2. Educational outcomes (acquired knowledge):

Students will gain a rational and balanced knowledge about nutrition and nutritional status. They will learn the skills of anthropometry, determining the parameters of nutritional status and nutrient energy needs of certain categories of people (with special emphasis on youth and adoloscente); making rational daily menu, proper cooking and food preserving, medical health risks of unsafe food.

3. Course content/structure:

Food, nutrition and health, Energy and energy needs, water and minerals in the diet, vitamins in the diet, antioxidants, Food safety methodologies, diet planning principles, hygiene.

4. Teaching methods:

Lectures.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Theoretical part of the exam	Yes	70.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	B. Novaković, M. Mirosavljević	Higijena ishrane	Univerzitet u Novom Sadu, Medicinski fakultet	2005

Table 5.2 Course specification

Course:			
Course id:	E238A	**Control Systems Technology**	
Number of ECTS:	6		
Teachers:		Kulić J. Filip, Petrovački Lj. Nebojša	
Course status:		Elective	

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

Precondition courses

1. Educational goal:

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

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

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

4. Teaching methods:

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

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	Robert N. Bateson	Introduction to Control System Technology	Prentice Hall	2002
2,	Filip Kulić	Radni materijali za predmet tehnologije upravljačkih sistema		2005

Table 5.2 Course specification

Course:		Introduction to Information Theory
Course id:	EK310	
Number of ECTS:	5	

Teachers:	Šenk I. Vojin, Trpovski V. Željen
Course status:	Elective

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

Precondition courses

1. Educational goal:

Introduction to the basics of the information theory and an overview of algorithms used in information processing.

2. Educational outcomes (acquired knowledge):

The knowledge of basic postulates of the information theory.

3. Course content/structure:

- Introduction to information theory;
- Source coding (statistical coding), block code for data compression, optimal prefix code (Huffman code), Arithmetic coding, Universal codes, Lempel-Ziv algorithms;
- Protective coding (Model of the communication channel, Trans information, Equivocation, Irrelevance, Channel capacity and the methods of calculation, Optimal decoding. MAP criterion, The properties of binary symmetric channel, Convolutional codes and algorithms for their decoding)

4. Teaching methods:

Lectures and Practice.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	50.00
Homework	Yes	5.00	Practical part of the exam - tasks	Yes	20.00
Laboratory exercise attendance	Yes	5.00			
Lecture attendance	Yes	5.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Vojin Šenk	Uvod u teoriju informacija	FTN, Novi Sad	2007

Table 5.2 Course specification

Course:		
Course id:	BMI112	Biomedical engineering in sport physiology
Number of ECTS:	6	

Teachers:	Bojanić M. Dubravka, Jorgovanović Đ. Nikola
Course status:	Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	0

Precondition courses	None

1. Educational goal:

Students learns about theoretical and practical bases in the field of sport physiology and about significance of biomedical engineering in the sport physiology.

2. Educational outcomes (acquired knowledge):

Knowledge about basic biomedical engineering principles in sport. Biomedical instrumentation and methods for evaluation of movement during training. Application of ECG instumentation and pulse oximetry instrumentation during exercise. Insight into clinical indicators of recovery, evidence for effectiveness of rehabilitation methods in the case of sport injuries The acquired knowledge can be used in solving practical engineering problems in the field of sport physiology.

3. Course content/structure:

Force, energy, work, power. Basal metabolism. Significance of physical activity and exercise on musculo-sceletal, cardiovascular, respiratory, hormonal, immune, hematologic, neurosensory and gastrointestinal systems. Energy sources for muscle contraction. Aerobic and anaerobic energy sources for muscle contraction. Aerobic and anaerobic metabolism. Muscles – force generation and movement. Aspects of mathematical muscle modelling. Muscle fatigue, changes in metabolic parameters. Metabolic adaptations to training. Developing a training plan, exercises analysis and design. Evaluation of movement during exercise based on kinematic and kinetic parameters and electromyographic activity - instrumentation and methods. Movement analysis sensors - goniometers i inertial sensors (accelerometers, gyroscopes). Analysis of ECG, HRV and pulse oximetry signals acquired during physical activity.

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Vladimir Medved	Measurement of Human Locomotion	CRC Press	2001
2,	David A. Winter	Biomechanics and Motor Control of Human Movement	John Wiley & Sons	2009
3,	Jacquelin Perry	Gait Analysis: Normal and Pathological Function	Slack	1992
4,	Marko Pećina, Stjepan Heimer, Nada Božić	Športska medicina	Naprijed	1995

Table 5.2 Course specification

Course:		
Course id:	BMI113	**Neuroengineering**
Number of ECTS:	6	

Teachers:	Bojanić M. Dubravka, Došen R. Strahinja
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

Students learn about modern technologies and development trends in the field of neuroengineering.

2. Educational outcomes (acquired knowledge):

Introduction to engineering techniques used for better understanding the properties of nervous system. Options for improving the functionality of nervous system in the case of various pathologies. Introduction to techniques for solving the design problems at the interface of living neural tissue and machines. Mechanisms of sensory-motor system functioning. Sensory and motor disorders and possibilities of restoration and augmentation of human function via direct interactions between the nervous system and artificial devices (Brain Computer Interface – BCI and neural prostheses). The use of neural implants connected with external technology.

3. Course content/structure:

Electroneurography (ENG), basic characteristics of ENG signal. Nerve conduction velocity measurement. Basic characteristics of EEG signal. Clinical electroencefalography. Evoked potentials, methods for processing evoked potentials. Nervous system modelling methods. Brain mapping methods. Transcranial magnetic stimulation. Brain Computer Interface (BCI) technology. Control interface and biofeedback.

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Dejan Popović, Mirjana Popović, Milica Janković	Biomedicinska merenja i instrumentacija	Akademska misao, Beograd	2010
2,	Popović D, Sinkjær T.	Control of movement for physically disabled	Springer-Verlag, London	2000
3,	Eric Kandel, James Schwartz, Thomas Jessell	Principles of Neural Science	McGraw-Hill	2000
4,	Guido Dornhege, José del R. Millán, Thilo Hinterberger, Dennis J. McFarland, Klaus-Robert Müller	Toward Brain-Computer Interfacing	The MIT Press Cambridge, Massachusetts	2007
5,	Metin Akay	Handbook of Neural Engineering	IEEE Press, John Wiley & Sons, Inc.	2007
6,	Daniel J. DiLorenzo, Joseph D, Bronzino	Neuroengineering	CRC Press, Taylor & Francis Group	2008

Table 5.2 Course specification

Course:		
Course id:	BMI128	**Continuum Biomechanics**
Number of ECTS:	5	
Teachers:		Spasić T. Dragan, Glavardanov B. Valentin, Žigić M. Miodrag
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Enabling students to formulate basic governing equations in the field of fluid and solid mechanics and then to use them for modeling and solving in medical problems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge enables students to derive and solve, analytically or numerically, governing equations of continuum mechanics describing behavior of bones, blood and cells as a consequence of mechanical action.

3. Course content/structure:

Transport processes in biology. Basic of continuum mechanics. Stress analysis. Kinematics and dynamics of continuum. Governing equations of continuum mechanics. Biphasic Theory.Transport phenomenas. Cardiovascular system. Heart. Blood vessels. Blood reologycal . Viscoelasticity. Poroelasticity and thermoelasticity. Analysis of diseases from mechanical point of view. Methods for solving partial differential equations.

4. Teaching methods:

Lectures. Auditory practice. Consultations. The use of computer for solving some problems..

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance	Yes	5.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	K Athanasiou & R. Natoli	Introduction to Continuum Biomechanics	Morgan & Claypool	2008
2,	Yuan-Cheng Fung	Biomechanics	Springer	1993
3,	Jay Humphrey	Cardiovascular solid mechanics	Springer	2002
4,	Clement Kleinstreuer	Biofluid dynamics	Taylor&Francis	2006
5,	J. Keener, J. Sneyd	Mathematical physiology	Springer	1998

Table 5.2 Course specification

Course:		
Course id:	BMI110	Sensors and actuators in medicine
Number of ECTS:	5	
Teachers:		Jovanović M. Vukica, Nađ F. Laslo, Stankovski V. Stevan, Živanov D. Ljiljana
Course status:		Mandatory

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

Precondition courses	None

1. Educational goal:

Acquiring basic knowledge in the field of sensors and actuators and their application in medicine.

2. Educational outcomes (acquired knowledge):

- Understanding the basic principles of various sensors and actuators, applicable in medical equipment - Ability to understand and interpret technical properties and the right selections of sensors and actuators from the manufacturer manuals for the specific application in medicine. -Ability to install and successfully apply sensors or actuators in some medical applications - Ability to design electronic circuits for signal processing of simple sensors (pressure, temperature or heart rate…) - Ability to design electronic circuits for excitation of simple actuators (motors, valves…)

3. Course content/structure:

Measurement principles and sensor and actuator techniques. Technical properties of sensors and actuators. Methods of sensor and actuator classification. Types of sensors. Sensor application (sensors of linear and angular displacement, speed sensors, accelerometers, force and torque; pressure sensors, level and flow; sensors for measuring temperature and humidity, proximity sensors, tactile sensors). Vision sensors. Types of actuators (electromechanical, hydraulic, pneumatic) and their applications (light modulators and detectors; flow controllers, switches, valves, motors, electromagnets). Packaging (housing). Modern integrated micro-actuators (positioners, optical elements).

4. Teaching methods:

Lectures. Auditory Practice. Laboratory Practice. Consultations. The student can take a colloquium from parts of the course which represent a logical whole (sensors, actuators). He/she can do a detailed project in sensor and/or actuator application within some medical system. In that case, the final examination consists of the oral project defense and answers to theoretical questions.

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	M.Popović	Senzori i merenja	VEŠ, Beograd	1995
2,	Lj. Živanov, L. Nađ	Primena senzora i aktuatora	Skripta, Fakultet tehničkih nauka	2009

Table 5.2 Course specification

Course:			
Course id:	BMISP		**Professional Practice**
Number of ECTS:	3		
Teachers:			
Course status:		Mandatory	

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

Precondition courses	None

1. Educational goal:

Students expand their practical knowledge in the field of computing and control engineering

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Solving concrete engineering problems in practice.

4. Teaching methods:

Teaching is performed in industrial or scientific and educational institutions, in the form of individual work.

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

Literature				
Ord.	Author	Title	Publisher	Year

Table 5.2 Course specification

Course:		Methods of measurement and measurement-acquisition systems in biomedicine
Course id:	EIMMBM	
Number of ECTS:	6	

Teachers:	Sovilj M. Platon, Milovančev S. Slobodan, Vujičić V. Vladimir
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Acquiring knowledge in the field of measurement methods and measurement-acquisition systems in biomedicine.

2. Educational outcomes (acquired knowledge):

Understanding, working principles and structure of the biomedical measurement data acquisition system. Knowledge of the measurement methods in the biomedicine, ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem solving related to biomedical measurement. Ability to perform an effective literature search and to utilize other types of information sources in the field of biomedical measurement. Knowledge and comprehension of the application of the Electrical and Computer Engineering in the field of the biomedical measurement.

3. Course content/structure:

Structure and modules of the biomedical measurement-acquisition systems. Measured quantities in the biomedical measurement. Types and characteristics of the biomedical measurement-acquisition systems: measured quantities, Ranges of the measured quantities, Frequency ranges of the measured quantities and standard measurement methods. Transducers in biomedical measurement-acquisition systems. Signal conditioning in the biomedical measurement-acquisition systems. Digital signal conditioning in the biomedical measurement-acquisition systems. The role of computer and communication technology in biomedical measurement-acquisition systems. Software application for data acquisition. Introduction to measurement methods for different physical quantities in the measurement in the field of biomedicine. Analogue measuring instruments in biomedicine. Digital measuring instruments in biomedicine. Methods for measuring the electro-physiological signal. Measurement of the electric activity of nerve cells. Measurement of the electric activity of muscles. Measurement of the cardiac electrical activity. Methods for galvanic response measurement. Methods for displacement measurement in biomedicine. Methods for pressure and force measurement in biomedicine. Methods for cardiac rhythm measurements. Methods for blood pressure measurement. Lung capacity measurement and the speed of air during inhalation. Blood, tissue and organic liquids chemistry measurement. Methods for gas concentration measurement in medicine. Methods for measurement of partial pressure of gases in medicine. Spectrophotometric measurement of gas and liquid content in medicine. Methods for quantitative determination of particles in blood. Methods for body temperature measurement. Methods for artery and vein pressure measurement. Methods for blood flow measurement. Methods for blood volume displacement measurement. Blood pH and gastric acidity measurement. Respiratory rhythm measurement. Respiratory rate measurement.

4. Teaching methods:

Lectures, Auditory practice, Laboratory practice, Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Laboratory exercise defence	Yes	30.00			
Lecture attendance	Yes	5.00			
Project	Yes	30.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	D. B. Popović, M. B. Popović, M. Janković	Biomedicinska merenja i instrumentacija	Akademska Misao, Beograd	2010
2,	D. Popović, M. Popović	Biomedicinska instrumentacija i merenja	Nauka, Beograd	1997
3,	A. Lay-Ekuakille	Advances in Biomedical Sensing, Measurements, Instrumentation and Systems	Springer	2009
4,	P. Sovilj	Stohastičko digitalno merenje EEG signala	Fakultet tehničkih nauka u Novom Sadu	2010

Table 5.2 Course specification

Course:		Ionizing and Non-Ionizing Radiation and Protection
Course id:	EIJNZZ	
Number of ECTS:	6	

Teacher:	Spasić-Jokić M. Vesna

Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Detailed introduction to the physical basics of functioning of various types of detectors and spectrometers of ionizing and non-ionizing radiation. Introduction to the principles of radiological safety, criteria in selection of detectors for radiation protection monitoring. Training in designing systems for human and equipment protection for ionizing and non-ionizing radiation.

2. Educational outcomes (acquired knowledge):

Introduction to the basic detection mechanisms of ionizing and non-ionizing radiation. Training in proper use of measurement instruments. Introduction to the operation methods of measurement instruments and measurement methods. Introduction to the application scope and limitations. Training in the application of criteria in selection of radiation detectors and monitors. Introduction to the metrology fundamentals. Introduction to the physical and biological fundamentals of ionizing and non-ionizing radiation. Training in designing systems for human and equipment protection from ionizing and non-ionizing radiation.

3. Course content/structure:

Fundamentals of radioactivity (ionizing radiation, physical parameters, measurement units); Interaction of ionizing and non-ionizing radiation with the matter; External and internal irradiation; Biological effects of ionizing radiation; Non-ionizing radiation – basic terms; Biological effect of non-ionizing radiation; Measurement of ionizing and non-ionizing radiation; Radiation protection (basic principles, dosage limits, organization, risk assessment, personal disometry); Legislation (Law on Protection of ionizing radiation, Law on protection of non-ionizing radiation, European directives); Metrological security; Incident and accident; Parameters in disometry of ionizing and nonionizing radiation. Detectors and spectrometers of ionizing radiation (gas, semiconductor, scintillation detectors, cloud, bubble and spark chambers, photographic emulsions, alpha, beta and gamma spectrometry, detection and spectroscopy of slow and fast neutrons). Detection of non-ionizing radiation, Biological effects of RF and microwave fields; Environmental monitoring; Individual monitoring; Principles of radiation safety.

4. Teaching methods:

Lectures; Auditory Practice, Cinsultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	G. F. Knoll	Radiation Detection and Measurement	John Wiley & Sons, Inc.	1999
2,	James Martin and Chul Lee	Principles of Radiological Health and Safety	John Wiley & Sons, Inc.	2002

Table 5.2 Course specification

Course:			
Course id:	BMI114	**Neural Prosthesis**	
Number of ECTS:	5		
Teachers:		Jorgovanović Đ. Nikola, Došen R. Strahinja	
Course status:		Mandatory	

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

Precondition courses	None

1. Educational goal:

Students learn about modern technologies and development trends in the field of neural prostheses.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in solving practical engineering problems in the field of neural prostheses.

3. Course content/structure:

The basic operating principles of neural prosthses. Neural prosthesis as a functional replacement for natural biological systems. Neural prosthetic system design. The effects of electromagnetic fields on the sensory-motor mechanisms. Therapeutic effects of electrical and magnetic stimulation. Design of electronic neuromuscular stimulators. Functional electrical stimulation (FES). Pacemakers and defibrillators. Phrenic nerve pacing. Motor prosthetics for control of movement (restitution of grasping, standing and walking). Sensory function restitution-sensory prosthetics (auditory prosthetics – cochlear implants, visual prosthetics). Bladder control implants. Prosthetics for pain relief. Muscle exercises.

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Popović D, Sinkjær T.	Control of movement for physically disabled	Springer-Verlag, London	2000
2,	Warren E. Finn, Peter G. LoPresti	Handbook of Neuroprosthetic Methods	CRC Press, Boca Raton, FL	2003
3,	Daniel J. DiLorenzo, Joseph D, Bronzino	Neuroengineering	CRC Press, Taylor & Francis Group	2008

Table 5.2 Course specification

Course:		
Course id:	BMI115	**Biomedical Engineering in Cognitive Neuroscience**
Number of ECTS:	5	

Teachers:	Ković R. Vanja, Sovilj M. Platon
Course status:	Mandatory

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

Precondition courses	None

1. Educational goal:

The acquisition of knowledge in the field of biomedical engineering in cognitive neurosciences.

2. Educational outcomes (acquired knowledge):

Understanding basic principles in cognitive neuroscience: utilization and principles of working of biomedical instruments in cognitive neuroscience. Ability to work in a multidisciplinary team environment with biomedical engineers, doctors and psychologists on the problem solving related to utilization of biomedical instrumentation in cognitive neuroscience. Ability to perform an effective literature search and to utilize other types of information sources in the field of biomedical instrumentation in cognitive neuroscience, ability to present results of the research. Knowledge and comprehension of the application of the Electrical and Computer Engineering in the field of the biomedical instrumentation in cognitive neuroscience.

3. Course content/structure:

Cognitive neuroscience: origin and research areas. Application of acquired knowledge in cognitive neurosciences. The importance of the neurological investigations for cognitive neurosciences. Methods and principles of investigations of Nervous system functions. Brain test methods. Neural basis of visual perception. Visual pathways. Sensory visual zones and integration of Sensory visual information. Functional specialization in the visual cortex. Neural basis of face and object recognition. Neurologically based visual disorders. Neural basis of attention. Neurologically based attention disorders. Neural basis of learning and memory. Role of hippocampus in the process of consolidation. Role of synaptic changes in the process of consolidation. Neural basis of operative and long term memory. Neurologically based memory disorder. Neural basis of symbolic functions. Neurologically based language disorder (language production and comprehension). Localistic and Holistic theories about brain functioning. Devices and systems that are used in cognitive neurosciences. Electroencephalography and its application in cognitive neurosciences. Magnetoencephalography and its application in cognitive neurosciences. Devices for measurement of evoked and event related potentials and their application in cognitive neurosciences. Functional magnetic resonance imaging devices and application in cognitive neurosciences. Transcranial magnetic stimulation devices and application in cognitive neurosciences. Positron emission tomography devices and application in cognitive neurosciences. Single-photon emission computed tomography (SPECT) devices and application in cognitive neurosciences. Near-infrared spectroscopy (NIRS) devices and application in cognitive neurosciences. Electromyography and application in cognitive neurosciences. Eye-tracking devices and application in cognitive neurosciences. Micro neurosurgery devices and application in cognitive neurosciences.

4. Teaching methods:

Lectures, Laboratory practice, Consultations.

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	National Research Council (U.S.). Committee on Military and Intelligence Methodology for Emergent Neurophysiological and Cognitive/Neural Science Research in the Next Two Decades.	Emerging cognitive neuroscience and related technologies	National Academies Press	2008
2,	Ward, J.	The student's guide to cognitive neuroscience	Psychology press	2006
3,	P. Sovilj	Stohastičko digitalno merenje EEG signala	Fakultet tehničkih nauka u Novom Sadu	2010
4,	A. Lay-Ekuakille	Advances in Biomedical Sensing, Measurements, Instrumentation and Systems	Springer	2009
5,	A. Kostić	Kognitivna obrada informacija	Zavod za udžbenike i nastavna sredstva Beograd	2006

Table 5.2 Course specification

Course:		Basics of medical robotics			
Course id:	BM116A				
Number of ECTS:	5				
Teacher:		Borovac A. Branislav			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	2	0		1
Precondition courses		None			

1. Educational goal:

The outcome of this course is to studentsunderstanding of robots working principles in biomedicine, as well as teach students to apply acquired knowledge in design of new robots.

2. Educational outcomes (acquired knowledge):

- understanding of working principles of varuius medical robots, - appropriate use of various medical robots, -ability to design simpler medical robots.

3. Course content/structure:

History and application overwiev, Basic concepts and definitions of kinematic chain structure which are basis for more complex structures, kinematics of robots (direct and inverse problems), dynamics of robots, robot control, Specificities of medical robots, robots in surgery, prothedtics, orthosis, Robots as assistive technology, robots for diabled, handicaped and old people. Robotic pets. Special robotic devices.

4. Teaching methods:

lectures. practicing, consultations

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	50.00	Written part of the exam - tasks and theory	Yes	50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Jocelyne Troccaz	Medical Robotics			2010
2,	Razni autori	Radovi sa savremenih konferencija i seminara			-

Table 5.2 Course specification

Course:		
Course id:	BM116B	Acquisition, analysis and monitoring of medical data
Number of ECTS:	5	
Teacher:		Ostojić M. Gordana
Course status:		Elective

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

Precondition courses	None

1. Educational goal:

The course teaches the students the methods of acquisition, analysis, compression and monitoring of medical data.

2. Educational outcomes (acquired knowledge):

Outcomes of the subject are mastering the techniques and the selection of appropriate components of the system for the acquisition, analysis, compression and monitoring of medical data.

3. Course content/structure:

Acquisition of medical data and their filtration. Chronology and analysis of the data collected. Monitoring of biomedical systems and individual patients. Visualization of biomedical systems; Calculation of the reports; special functions; Telemetry; HMI and MMI interfaces; web-oriented systems; distributed monitoring systems; security in monitoring systems.

4. Teaching methods:

Teaching is conducted through lectures and exercises. During the exercises the student is required to do practice-oriented tasks. Evaluation of knowledge is carried out through the subject project, where students previously had to do all the exercises provided. The requirement that students take the final exam is that they must successfully complete and defend all of the exercises and complete the project. The final exam is in the form of a test and refers to the theoretical issues.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	50.00	Written part of the exam - tasks and theory	Yes	50.00
			Coloquium exam	No	20.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Laurence J. Street	Introduction to Biomedical Engineering technology	CRC Press; Taylor & Francis	2008
2,	S N Sarbadhikari	A Short Introduction to Biomedical Engineering technology	CRC Press; Taylor & Francis	2007
3,	Domenico Campolo	New Developments in Biomedical Engineering	InTech	2011
4,	Stankovski, S., Ostojić, G.	Prikupljanje, analiza i monitoring medicinskih podataka - u pripremi	FTN	2012

Table 5.2 Course specification

Course:			
Course id:	BM116C	**Motion control**	
Number of ECTS:	5		
Teachers:		Stankovski V. Stevan, Ostojić M. Gordana	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

The aim of the course is to master the knowledge necessary for the design and implementation of systems for motion control.

2. Educational outcomes (acquired knowledge):

Outcomes of the subject are skills that primarily cover the area of linear motion control and include sensors, actuators and control algorithms used in manipulation devices, machines and systems.

3. Course content/structure:

Introduction to motion control. Defining basic categories of industrial motor control systems (sequential, control the speed, control from point to point, incremental changes). Linear motion systems with servo pneumatics. Linear motion systems with servo hidraulics. Linear motion systems with DC motors. Linear motion systems with AC motors. Linear motion systems with servo motors. Proximity sensors. Position sensors. Pressure sensors. Speed sensors. Flow sensors. Other significant industrial sensors.

4. Teaching methods:

Teaching is conducted through lectures and exercises. During the exercises the student is required to do practice-oriented tasks. Knowledge testing is carried out through two tests and the final exam, while before that student has to do all the exercises provided. The final exam is in written form.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance	Yes	5.00	Coloquium exam	No	20.00
Test	Yes	10.00	Coloquium exam	No	20.00
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Tan K. K., T. H. Lee and S. Huang	Precision motion control: Design and implementation, 2nd ed.	London, Springer	2008
2,	Robert H. Bishop	The Mechatronics Handbook	CRC PRESS	2002
3,	Andrzej Pawlak	Sensors and Actuators in Mechatronics, Design and Applications	Taylor & Francis	2007
4,	Stankovski, S.	Upravljanje kretanjem - u pripremi	FTN	2012

Table 5.2 Course specification

Course:		Medical electronics			
Course id:	BM117A				
Number of ECTS:	5				
Teacher:		Stojanović M. Goran			
Course status:		Elective			

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

Precondition courses	None

1. Educational goal:

Acquiring theoretical and practical knowledge in the field of electronic medical devices and application of electronics and sensors in modern medical devices and instruments.

2. Educational outcomes (acquired knowledge):

- an ability to design of simple ECG, EMG, EEG devices, pulseoximeter as well as their connection with computer
- an ability to realize hardware part of above mentioned electronic devices
- an ability to understand operating principles and the main parts of medical devices for diagnostic purposes such as roothgen, CT scanner, magnetic resonance imaging
- an ability to understand advantages of application neural impulse actuators

3. Course content/structure:

Design and manufacturing of electronic devices for application in medicine. ECG. EMG. EEG. Pulseoximeter. Pacemaker. Device for measuring blood sugar. Digital stethoscope. Device for measuring body temperature. Construction and operating regime of Roentgen. PET scanner. CT scanner. Magnetic resonance imaging. Application of electronics in dentists devices. Application of microelectronics and MEMS in electronic medical devices. Application of nanotechnology for drug delivery and tumor tissue destroying. Neural impulse actuator - demonstration of practical work.

4. Teaching methods:

Lecture. Auditory exercises. Laboratory exercises. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Final exam - part one	Yes	35.00
			Final exam - part two	Yes	35.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Ante Šantić	Biomedicinska elektronika	Školska knjiga, Zagreb	1995
2,	Dejan Popović, Mirjana Popović	Biomedicinska instrumentacija i merenja	Nauka, Beograd	1997
3,	Goran Stojanović	Elektronski medicinski uređaji - skripta	FTN, Novi Sad	2007

Table 5.2 Course specification

Course:		
Course id:	BM118A	**Nonlinear programming and optimal control**
Number of ECTS:	5	

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

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

Precondition courses	None

1. Educational goal:

Mastering basic theoretical and practical principles of nonlinear optimization and optimal control.

2. Educational outcomes (acquired knowledge):

Classes and active participation help students to acquire necessary and sufficient knowledge for analysing and designing systems for automated management in production systems, as well as their operational application in actual industrial systems.

3. Course content/structure:

Fundamental theoretical concepts of static convex and non-convex programming. First and second order optimality conditions for analytical solution of single-variable constrained and unconstrained optimization. Optimality conditions for analytical solution of multivariable optimization problems with constrants. Linear programming. Numerical solution of single-variable problems. Numerical solution of multi-variable problems, with and without constraints. Fundamentals of variational calculus. Optimal control: Pontryagin maximum principle. Numerical methods of dynamic programming. Modern search strategies: Evolutionary & Genetic optimization, Particle Swarm Optimization. Optimization techniques in neural networks training and in fuzzy systems design. Applications in real-life engineering problems, including, but not limited to, identification of nonlinear biological and medical models.

4. Teaching methods:

Lectures. Numerical calculation practice.Computer practice. Laboratory practice. Consultations.

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	J. Petrić, S. Zlobec	Nelinearno programiranje	Naučna knjiga, Beograd	1983
2,	B. Vujanović, D. Spasić	Metodi optimizacije	Fakultet tehničkih nauka, Novi Sad	2009
3,	Dimitri Bertsekas	Nonlinear Programming	Athena Scientific	2004
4,	S. Boyd, L. Vendenberghe	Convex Optimization	Cambridge University Press	2009

Table 5.2 Course specification

Course:		The application of geoinformation technologies and systems in medicine
Course id:	BM119A	
Number of ECTS:	5	

Teachers:	Govedarica J. Miro, Ristić V. Aleksandar, Jorgovanović Đ. Nikola
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Acquiring basic and applied knowledge and skills in the field of geoinformation technologies and systems with an emphasis on applications in medicine.

2. Educational outcomes (acquired knowledge):

- geoinformation technologies basics,
- GNSS
- remote sensing and image processing
- laser scanning
- geoinformation systems and importance of their applications in medicine

3. Course content/structure:

• Introduction to geoinformation technologies and systems
Geoinformation technology basics, position and role of geoinformation systems in medicine. Introducing of modern geoinformation technologies and systems in medicine and health care.
• Global Navigational Satellite System - GNSS
Fundamentals of GNSS technologies, dedicated hardware and software. Applications of GNSS technologies, GNSS-based services. GNSS applications in medicine.
• Remote sensing and image processing technologies
Data acquisition, interpretation and presentation. Relevant data for applications in medicine. Computer-based image processing, methods of image forming and analysis.
• Laser scanning and close-range photogrammetry
Imaging, measurements and image interpretation, 3D analysis. Medical instruments.
• Geoinformation system - GIS
Fundamentals of geographic information systems. Importance of applications in medicine. Geoinformation system and health-care information system.
• GIS in medicine
Integration of spatial information on patient's location, access roads, patient's condition, priorities. Analysis of integrated information as a support in decision making. Role of GIS in determination of intervention priority and improvement of medical services. Access, analysis and visual presentation of relevant data.
• Location based services in medicine
Services that use coordinates of user's location as improvement of medical services. Support systems for emergency services and services for transportation of organs for transplantation. Health care, management of emergency situations.

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	C. Jones	Geographical Information Systems and Computer Cartography	Pearson Education Inc	1997
2,	S. Shekhar, S. Chawla	Spatial Databases	Pearson Education Inc.	2003
3,	Peter A. Burrough, Rachael, A. McDonnell	Principi geografskih informacionih sistema	Građevinski fakultet Beograd	2006
4,	Keith R. McCloy	Resource Managament Information Systems Remote Sensing, GIS and Modelling	Taylor & Francis	2006

Table 5.2 Course specification

Course:			
Course id:	BM117B	**Flexible electronics**	
Number of ECTS:	5		
Teacher:		Stojanović M. Goran	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

Acquiring theoretical and practical knowledge in the filed of printed-flexible electronics in manufacturing of mechanically flexible sensors, stimulators and other components and devices in medicine.

2. Educational outcomes (acquired knowledge):

- an ability to design and and manufacture of flexible blood pressure sensors
- an ability to design and manufacture of prototypes of implantable ocular pressure sensors
- an ability to design and manufacture of flexible stimulators for application in EMG
- an ability to design and manufacture of RFID for telemetry application in medicine

3. Course content/structure:

Manufacturing methods for flexible electronic components and devices (ink-jet printing, screen printing, flexo-printing, etc.). Flexible transistors and light emitting diodes. Flexible displays. Flexible solar cells. Flexible sensors and scanners. Implantable LC blood pressure sensors. Implantable ocular pressure sensors. Fleixble (polymeric) stimulators. Flexible RFID tags and their applications in medical telemetry. Smart textiles. Measuring ECG using embedded electrodes in textile. Moisture sensors embedded in textile (blankets, etc.). Realization and application of flexible force sensitive resistors (FSR).

4. Teaching methods:

Lecture. Auditory exercises. Laboratory exercises. Consultation.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Final exam - part one	Yes	35.00
			Final exam - part two	Yes	35.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Joseph Fjelstad	Flexible Circuit Technology	BR Publishing	2007
2,	Ruth Shinar, Joseph Shinar	Organic Electronics in Sensors and Biotechnology	McGRAW-HILL	2009

Table 5.2 Course specification

Course:		Acoustics and Audio Engineering in Medicine			
Course id:	BM118B				
Number of ECTS:	5				

Teachers:	Delić D. Vlado, Sečujski S. Milan

Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Expand the student's knowledge of sound waves: how they are generated and transmitted, how they are perceived and how they affect people, how the sound is recorded, transmited and reproduced. Particularly explain the mechanism of speech production and perception, as well as the characteristics of the speech mechanism, and the sense of hearing. Present techniques for hearing tests and measurements of voice quality. Given the particular importance of ultrasound technology for medical diagnosis and therapy, introduce students to the way of generation, propagation and detection of ultrasound.

2. Educational outcomes (acquired knowledge):

Students will learn about audio signals, especially about speech as the most natural way of communication between humans, and ultrasound, due to its importance in medical diagnostics and medicine in general. In addition to basic elements of physical and physiological acoustics (what and how people can hear), students will become familiar to electro-acoustic transducers (microphones, speakers and headphones), measurement devices, and other devices and equipment that will be presented at exercises and during visits to recording studios and audiological laboratories. Through practical work students will be introduced to techniques for hearing testing and measuring voice quality.

3. Course content/structure:

•The physical characteristics of sound (production and propagation of sound waves, standing waves, and Doppler effect). •Electroacoustics (microphones, loudspeakers and headphones, measurement devices, tools for audio signal analysis and processing). •Psycho-physiology and perception of sounds (anatomy, auditory area; binaural localisation, sound masking effect, noise impact on people). •Voice production and perception (acoustical, motoric, and cognitive aspects, modelling of speech production and perception). •Speech quality evaluation and speech intelligibility measurements (objective measurements and subjective assessment of acoustical characteristics of voice). •Hearing evaluation (perception of pitch, level and spectrum in sound; tonal and speech audiometry; hearing aids and cochlear implants). •Introduction to ultrasonic technology (generation, propagation, and detection of ultrasound; ultrasonic devices; applications in diagnostics and therapy).

4. Teaching methods:

Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course (acoustics) is followed by auditory exercises. The second part of the course (audio engineering) is followed by exercises either in the Laboratory of Acoustics and Speech Technologies at FTN or in a sound studio at UNS. Several visits are arranged during the concluding part of the course (applications in medicine) – in the audiology laboratories and studios at the Medical Faculty and the School „Milan Petrović" for the children with disabilities, where students will learn about the audio equipment, the radio and speech studios. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecom. and Signal Processing - www.ktios.net.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Presentation	Yes	10.00	Written part of the exam - tasks and theory	Yes	50.00
Term paper	Yes	20.00	Coloquium exam	No	20.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Petar Pravica, Dragan Drinčić	"Elektroakustika"	VISER Beograd	2006
2,	Miomir Mijić	"Audio sistemi"	Akademska misao, Beograd	2011
3,	Vlado Delić	Skripta sa predavanja	www.ktios.net	2012

Table 5.2 Course specification

Course:		Wireless sensor networks			
Course id:	BM119B				
Number of ECTS:	5				
Teachers:		Stefanović D. Čedomir, Vukobratović V. Dejan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	0	2	0		0
Precondition courses		None			

1. Educational goal:

Introduction to the fundamental and advanced aspects of wireless sensor and ad-hoc networks, through the layers of the protocol stack, emphasizing biomedical applications. Laboratory work on WSN kits.

2. Educational outcomes (acquired knowledge):

Capability to analyze and synthesize wireless sensor and ad-hoc networks. Capability to research and design WSN solutions.

3. Course content/structure:

Intruduction to wireless sensor and ad-hoc networks and their applications, emphasizing biomedical applications. Physical layer. Multiple access control algorithms. Network layer and routing. Overview of related technologies and standards - IEEE 802.15.4, Bluetooth, ZigBee, 6LoWPAN. Related programming languages and environments - NesC, Contiki OS. Independent project work.

4. Teaching methods:

Lectures. Consultation. Projects. Research study.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	I. Stojmenović	Handbook of Sensor Networks: Algorithms and Architectures		John Wiley	2005

Table 5.2 Course specification

Course:			
Course id:	BM117C	**MEMS and NEMS**	
Number of ECTS:	5		
Teacher:		Živanov D. Ljiljana	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

Acquiring basic knowledge in the field of microelectromechanical systems and their application in biomedicine engineering.

2. Educational outcomes (acquired knowledge):

- ability to understand different technological processes of MEMS and NEMS - ability to design a simple integrated sensor or actuator in MEMS and NEMS technology - Ability to simulate used components and circuits in MEMS and NEMS

3. Course content/structure:

Introduction. Overview of MEMS and NEMS technological process. Surface micromachining. Volume micromachining. LIGA process. Nano-print lithography. Application of MEMS and NEMS technologies for realization of passive components. Integrated sensors and actuators in MEMS and NEMS technologies. Realization of MEMS and NEMS microvalves. Application of MEMS and NEMS technologies for realization of 3D microstructures. Software tools for modelling and simulation of MEMS and NEMS components and circuits. Examples of mostly used MEMS i NEMS components.

4. Teaching methods:

Lectures. Auditory exercises. Laboratory exercises. Consultations. Experimental projects.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Project task	Yes	15.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	G. Stojanović, Lj. Živanov	Induktivne komponente u tehnologiji MEMS	Izveštaj za projekat Ministarstva za nauku	2002
2,	Boussey Jumana	Microsystem technology, Fabrication, Test and Reliability	London and Sterling, VA, HPS, Kogan Page Science	2003
3,	Ljiljana Živanov	MEMS tehnologije	skripta, Fakultet tehničkih nauka	2009
4,	H. L. Kwok	Electronic materials	PWS Publishing Company	1997
5,	Julian Gardner, Vijay Varadan, Osama Awadelkarim	Microsensors, MEMS and smart devices	John Wiley & Sons Ltd.	2007
6,	Sergey E. Lyshevski	MEMS and NEMS: Systems, Devices, and Structures	CRC press	2002

Table 5.2 Course specification

Course:		
Course id:	BM118C	**Medical management**
Number of ECTS:	5	

Teacher:	Maksimović M. Rado

Course status:	Elective

Number of active teaching classes (weekly)

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

Precondition courses	None

1. Educational goal:

Student will gain general knowledge and specific skills for understanding the nature, purpose and management domain, understanding the importance, essence, approach in the development and organization and application of those knowledge and skills for the planning, organizing, leading and controlling processes in functions of the organization and in the organization as a whole, regardless of the work program of the organization and its activities, but with a special emphasis on the organization of medical services or activities that are in the relationship.

2. Educational outcomes (acquired knowledge):

Students will be able to understand the basic methods, principles and functions of management, factors affecting the dynamics of the organization and gain general knowledge and specific skills on which to become competent in analyzing organizational processes and structure, analyzing the parts of organization and their mutual interdependence, generating alternative solutions and selecting the best organizational structure as well as solving specific organizational problems over peroid of time functioning on the market.

3. Course content/structure:

Management fundamentals; Defining management; Concepts and management domains; Features, characteristics and management levels; Methods, principles and functions of management; Management in crisis conditions and management in the future; Development of the organization; The position of man in the work process - a man, work and technology; Mission, objectives and policies of the organization; Factors of organizations, The processes in the company and their interrelationships; Arranging data in the organization; Basic flows in the organization; Organizational forms and types of organizational structures; Design of effective organizational structure; Manager and its functions; Management ethics and Organizational culture; Organization, management, and environmental changes.

4. Teaching methods:

Teaching include: Lectures, practical analysis of specific examples of organizational structures of particular companies; Auditory and computational exercises in which organizational methods and techniques are elaborated through the examples; Essay, which is an independent student work - a case study of a particular organization from the perspective of organization and management. Essay work is done in exercises and extra-curricular time.

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	70.00
Lecture attendance	Yes	5.00			
Term paper	Yes	20.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Zelenović, D.	Tehnologija organizacije industrijskih sistema - preduzeća	Fakultet tehničkih nauka u Novom Sadu	2006
2,	Ćosić, I. Maksimović, R.	Proizvodni menadžment	Fakultet tehničkih nauka u Novom Sadu	2011

Table 5.2 Course specification

Course:		Automatic identification in bioengineering
Course id:	BM119C	
Number of ECTS:	5	
Teacher:		Ostojić M. Gordana
Course status:		Elective

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

Precondition courses	None

1. Educational goal:

The course teaches the students the basic elements of a system for automatic identification and designing bioengineering systems in which automatic identification will be used for further process improvement.

2. Educational outcomes (acquired knowledge):

Outcomes of the subject are mastering the techniques and the choice of appropriate systems and / or devices that can be applied in different bioengineering systems. Special emphasis is on the application of various technologies for automatic identification in a single system.

3. Course content/structure:

Introduction to automatic identification systems. Technology for automatic identification of objects. Labeling and object recognition. Principles and types of barcode technology. Ways to use barcode technology. Principles of RFID technology. Methods of application of RFID technology. Principles of OCR technology. Biometric methods. Control of the data collected. Process management based on data collected from the process. Case studies of the application of automatic identification when: determining the correct dose of anesthesia during operations, blood bank, to prevent the misuse of drugs, locating patients and staff in real time, in medical operations and other.

4. Teaching methods:

Teaching is conducted through lectures and exercises. During the exercises the student is required to do practice-oriented tasks. Testing knowledge is carried out through the theoretical part of the exam, while before that has to do all the exercises provided. The final exam is in the form of a test and refers to the theoretical issues.

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	Ostojić, G. Stankovski, S.	Sistemi i uređaji za praćenje proizvoda tokom životnog veka	FTN	2012
2,	Ostojić, G., Jovanović, V., Stankovski, S., Lazarević, M.	RFID Product and Part Tracking for the Preventive Maintenance	ASME 2009, Purdue University, West Lafayette, Indiana, U.S.A.	2009
3,	Russell E. Adams	Sourcebook of automatic identification and data collection	Van Nostrand Reinhold	1997
4,	Klaus Finkenzeller	RFID Handbook: Fundamentals and Applications in Contactless Smart Cards and Identification	John Wiley & Sons	2003

Table 5.2 Course specification

Course:		
Course id:	BM118D	**Modelling and simulation of biophysical proceses**
Number of ECTS:	5	
Teacher:		Stojanović M. Goran
Course status:		Elective

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

Precondition courses	None

1. Educational goal:

Students will be able to understand fundamental biophysical processes in medicine and to develop electrical models of these processes and to use models in simulations. This simulations will explain influences of these phenomena on our body.

2. Educational outcomes (acquired knowledge):

- an ability to understand biophysical phenomena and processes on our body, such as tumor tissue growing, neural potential, trombs creation, etc.
- an ability to develop electrical models of above mentioned phenomena and processes in medicine
- an ability to develop in-house software tools for simulation of biophysical processes in medicine
- an ability to use commercial 3D software tools such as COMSOL, for simulation of important phenomena in medicine (destroying cancer tissue, brain mapping, etc.)

3. Course content/structure:

Application of software tools for simulation of phenomena in medicine. Growing tumor tissue. Models for destroying tumor tissue using RF thermal amputation. Simulation of electrochemical destroying tumor tissue in software tool COMSOL. Modeling blood flow, creation of trombs, stents involvement. Brain mapping. Modeling cardio-respiratory system. Simulation of blood flow. Electrical models of cells membrane. Computer simulation of neural action potential.

4. Teaching methods:

Lecture. Computer exercises. Consultation.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	30.00	Final exam - part one	Yes	35.00
			Final exam - part two	Yes	35.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	C. Pozrikidis	Modeling and Simulation of Capsules and Biological Cells	Chapman & Hall/CRC	2003
2,	Frank C. Hoppensteadt and Charles S. Peskin	Modeling and Simulation in Medicine and the Life Sciences	Springer	2010
3,	C. A. Brebbia	Modelling in Medicine and Biology	WIR Press	2009
4,	Willem van Meurs	Modeling and Simulation in Biomedical Engineering: Applications in Cardiorespiratory Physiology	MCGraw Hill	2011

Table 5.2 Course specification

Course:		Reverse engineering and rapid prototyping in biomedical engineering
Course id:	BM119D	
Number of ECTS:	5	

Teachers:	Budak M. Igor, Lužanin B. Ognjan, Plančak E. Miroslav, Puškar M. Tatjana
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Gaining knowledge on theoretical and practical aspects of reverse engineering modeling and rapid prototyping in the field of biomedicine.

2. Educational outcomes (acquired knowledge):

Ability to understand the methodology of reverse engineering and its practical application in the field of biomedicine with an emphasis on the use of computed tomography and magnetic resonance imaging.
Ability to understand the methodology, technological aspects and practical applications of rapid prototyping in the field of biomedicine.
Mastering the methodological and practical aspects of the integration of reverse engineering and rapid prototyping in the field of biomedicine.

3. Course content/structure:

The term, role and importance of reverse engineering in the field of biomedical engineering. Reverse engineering methodology. 3D digitization - concepts and methods in the field of biomedicine (CT and MRI). Pre-processing of the results of 3D digitization. Reconstruction of complex surfaces - generating CAD models. The concept of the role and importance of rapid prototyping in the field of biomedical engineering. Technological aspects of rapid prototyping. Biomedical materials for rapid prototyping. Integration of systems for reverse engineering and rapid prototyping.

4. Teaching methods:

Lectures are realized interactively through lectures, laboratory and computer practical classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. Acquired knowledge is practically applied in laboratory practical classes bz the application of availlable laboratory equipment. Computer exercises comprise the use of information and communication technologies for gaining knowledge and practical skills in the field of study. Apart from lectures and practical classes, consultations are held regularly.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	20.00
Term paper	Yes	20.00			
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Plančak, M.	Brza izrada prototipova, modela i alata	Fakultet tehničkih nauka u Novom Sadu	2009
2,	Budak, I.	Reverzibilno inženjerstvo – preprocesiranje rezultata 3D digitalizacije (u pripremi za štampu)	Fakultet tehničkih nauka u Novom Sadu	2012
3,	Wego Wang	Reverse Engineering: Technology of Reinvention	CRC Press, Taylor and Francis Group	2010

Table 5.2 Course specification

Course:			
Course id:	BM118E		**Databases**
Number of ECTS:	5		
Teachers:		Luković S. Ivan, Mihajlović R. Dragan	
Course status:		Elective	

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

Precondition courses	None

1. Educational goal:

Basic students' education in databases. Students gain fundamental knowledge in databases and learn basic techniques of implementation, use and maintenance of databases.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in practice, in projects of database and information system development, as well as in advanced courses requiring a use of basic knowledge in databases.

3. Course content/structure:

The evolution of data management process and the notion of a database. Basic concepts and characteristics of data models. ER data model. Relational data model. A classification and types of database constraints in the relational data model. Functional dependency and the relation scheme key. Basic design techniques of relational database schemas. Basic characteristics of database management systems. The use of SQL in creating database schemas and data manipulation.

4. Teaching methods:

Teaching is performed through lessons, oral and computer exercises (in the computer classroom), as well as consultations. Through the teaching process, students are constantly motivated to an intensive discussion, problem oriented reasoning, independent study work and active participation in the whole lecturing process. The prerequisite to enter final exam is to complete all the pre-exam assignments by earning at least 30 points.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00
Complex exercises	Yes	10.00			
Complex exercises	Yes	10.00			
Complex exercises	Yes	10.00			
Project task	Yes	15.00			
Project task	Yes	15.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Mogin Pavle, Luković Ivan	Principi baza podataka	FTN i MP Stylos, Novi Sad	1996
2,	Groff, James R., Weinberg, Paul N., Oppel, Andrew J.	SQL: The Complete Reference, 3rd Edition	McGraw Hill, Inc.	2009
3,	Date C. J.	An Introduction to Database Systems (8th Edition)	Addison Wesley	2004
4,	Mogin Pavle, Luković Ivan, Govedarica Miro	Principi projektovanja baza podataka, II izdanje	Fakultet tehničkih nauka, Novi Sad	2004

Table 5.2 Course specification

Course:		Technical standards and regulations for medical devices and systems
Course id:	BM119E	
Number of ECTS:	5	

Teachers:	Milovančev S. Slobodan, Sovilj M. Platon
Course status:	Elective

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

Precondition courses	None

1. Educational goal:

Acquiring knowledge in the field of technical standards for medical devices and systems.

2. Educational outcomes (acquired knowledge):

Understanding of the relationship between national and international standards and regulations for medical devices and systems. Ability to perform an effective literature search and to utilize other types of information sources in the field of technical standards and regulations for medical devices and systems and ability to present results of the research. Ability to apply technical standards and regulations for medical devices and systems in every phase of the medical device life cycle.

3. Course content/structure:

Metrological aspects of devices used in medical diagnose and treatment. Safety of medical devices. Safety and risk management for medical devices. Effectiveness and characteristics of medical devices. Participants and their roles in safety ensuring and achieving adequate characteristics of medical devices: manufacturers, distributers and end users. National legal metrology and international OIML standards for medical devices. ISO 13485 2003 standard - requirements for a comprehensive management system for the design and manufacture of medical devices. ISO 14971 standard – medical devices risk management. Design and development of medical devices in compliance with ISO 13485 standard. The medical devices life cycle: concept, design and development, manufacturing, service and maintenance, disposition. Planning specifications, initial design, Integrated prototype, "zero" series production. European standards for medical devices. Identification of European directives and harmonized standards for medical devices. EU directive approach which enables CE marking (93/42/EEC Medical Device Directive (MDD), 2004/22/EC Measuring instruments, 2006/95/EC Low Voltage Directive (LVD), 2004/108/EC Electromagnetic Compatibility Directive (EMC Directive), ...). Standard EN 60601-1:2006 for medical electronic devices – part 1: general requirements for basic safety IEC 60601-1:2005. USA FDA (Food and Drug Administration) agency standards and regulations for health care. Global harmonization Task Force (GHTF) – standardized regulations related to medical devices at the international level. Situation in Serbia – jurisdiction of the Agency for medications and medical devices of Serbia and Accreditation body of Serbia and compliance with international regulations in the field of medical devices.

4. Teaching methods:

Lectures, auditory exercises, labaratory exercises, consultations.

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

Literature				
Ord.	Author	Title	Publisher	Year
1,	M. Cheng	MEDICAL DEVICE REGULATIONS Global overview and guiding principles	WORLD HEALTH ORGANIZATION GENEVA	2003
2,	ISO TC 210	ISO 13485:2003 Medical devices -- Quality management systems -- Requirements for regulatory purposes	International Organization for Standardization	2003
3,	ISO TC 210	ISO 14971:2007 Medical devices -- Application of risk management to medical devices	International Organization for Standardization	2007
4,	P. Sovilj	Etaloniranje elektrokardiografa	Fakultet tehničkih nauka u Novom Sadu	2011
5,	INTERNATIONAL ORGANIZATION OF LEGAL METROLOGY	OIML R 89 Electroencephalographs - Metrological characteristics - Methods and equipment for verification	INTERNATIONAL ORGANIZATION OF LEGAL METROLOGY	1990

Table 5.2 Course specification

Course:		Equipment and systems for helping the elderly, ill and disabled
Course id:	BMI120	
Number of ECTS:	6	

Teachers:	Čongradac D. Velimir, Jorgovanović Đ. Nikola
Course status:	Mandatory

Number of active teaching classes (weekly)

Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
3	0	2	0	1

Precondition courses	None

1. Educational goal:

Training students for understanding the possibilities and importance of using modern technical solutions in order to help elderly, ill and persons with disabilities.

2. Educational outcomes (acquired knowledge):

Acquiring of knowledge and skills, necessary for designing and implementing the systems of automation in business and residential facilities with the aim of adjusting them to persons with disabilities.

3. Course content/structure:

-The history of applying the modern automation solutions in the adjustment of business and residential facilities for persons with disabilities
-The standards in the field of automation of business and residential facilities adapted for persons with disabilities
-DCS architecture in the systems of automation of business and residential facilities
-Communication protocols (LON, KNX, X10)
-The adjustment of HVAC systems in business and residential facilities for persons with disabilities
-The lighting and its adjustment to persons with disabilities
-The air conditioning of business and residential facilities for persons with disabilities
-The special aids for persons with disabilities and their connection to the automation systems of business and residential facilities
-Designing the automation systems for business and residential facilities adapted for persons with disabilities
-Portable telemedical devices, moniotoring, telediagnosis, teleterapy, teleconsultation...
-Systems for the aquisition of physiological parameters and signals in non-clinical environment

4. Teaching methods:

Lectures. Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	G. J. Levermore	Building energy management systems	Department of building engineering UMIST	2008
2,	Roger W. Haines Douglas C. Hittle	Control systems for heating, ventilating and air conditioning	Springer	2008

Table 5.2 Course specification

Course:		Image processing and Computer Vision in Medical Imaging			
Course id:	BMI121				
Number of ECTS:	5				
Teacher:		Petrović S. Vladimir			
Course status:		Mandatory			

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

Precondition courses	None

1. Educational goal:

Application of contemporary image analysis and computer vision methods to medical imaging. Introduction into research developments in medical computer vision and image processing and solving of actual medical imaging problems through computer vision and processing systems.

2. Educational outcomes (acquired knowledge):

Familiarising with basic terminology of medical image analysis and computer vision in medicine as well as basic numerical and image processing techniques useful in medical imaging such as multiresolution and multi-scale processing and optimisation. Practical application of learned image processing methods on real examples of digital radiography and computer vision methods on magnetic resonance images. Gaining basic understanding of contemporary computer vision algorithms used in medical imaging including image registration, segmentation as well as statistical modelling of anatomy shape and appearance. Each student will get at least two opportunities to apply learned techniques on actual medical images (project work and labs).

3. Course content/structure:

- Basics: digital medical images, 2D/3D, modalities, resolution, isotropy, dynamic images, temporal resolution, interpolation
- Multiscale image analysis: analysis and sythesis, Gaussian and Laplacian pyramid, wavelets, DWT
- Image processing for display: digital x-ray, range compression, image corrections, mutli-scale enhancement, noise suppression, tone scaling
- Optimizacija: methods (gradient, simplex, LM...), distance measurement, hypothesis testing
- Registration– image normalisation, perspective transformations, deformations, deformable registration, deformation fields, fluid registration, objective measures (MI, abs diff, sum sq)
- Segmentation – illumination methods, snakes, level sets, mean shift, graf cuts, Markov random fields
- Modeling of shape and appearance – statistical shape models, appearance models, texture and shape, active shape and apparance models (AAM)

4. Teaching methods:

The subject is delivered in three segments:
- 12 double conventional lectures with electronic presentations
- Laboratory exercises in Matlab environment (24 hours in 6 themes)
- Individual student project focusing on a single imaging problem, in Matlab environment

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence	Yes	30.00	Final exam - part one	Yes	40.00
			Final exam - part two	Yes	30.00
			Coloquium exam	No	20.00
			Coloquium exam	No	20.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Ralph Schaetzing	Taking Image Processing to the Next Level	Agfa	2007
2,	Wolfgang Werner Birkfellner	Applied Medical Image Processing: A Basic Course	Taylor and Francis	2010
3,	V. Petrović	Obrada Slike u Medicini	Skripta	2012

Table 5.2 Course specification

Course:			
Course id:	BMI122	**Neurorehabilitation**	
Number of ECTS:	5		
Teachers:		Došen R. Strahinja, Jorgovanović Đ. Nikola, Bojanić M. Dubravka	
Course status:		Mandatory	

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

Precondition courses	None

1. Educational goal:

Students learn about modern technologies and development trends in the field of neurorehabilitation.

2. Educational outcomes (acquired knowledge):

Basic knowledge in the field of neurorehabilitation. Understanding the structure of neuro-musculo-sceletal system. Principles of movement control. Understanding neuroplasticity. The nervous system's ability to adapt its structure and reorganize itself to form new neural pathways. Principles of clasical and modern neurorehabilitation. Instrumentation for evaluation of movement, equipment for rehabilitation. Iinsight into clinical indicators of recovery, evidence for effectiveness of rehabilitation methods.

3. Course content/structure:

The structure of neuro-musculo-sceletal system and control of movement. Povrede i bolesti nervno-mišićno-skeletnog sistema. Plasticity in the human central nervous system. Principles of neurorehabilitation. Physiotherapy (conventional approach) ili Conventional physiotherapy. Walking and grasp trainning. Robotic rehabilitation. The application of virtual reality in rehabilitation. Functional electrical therapy. Tremor treatment and therapy. Amputation, phantom limb, phantom limb pain and therapy. Clinical scales for assesment of neurological disorders. Instrumentation for data acquisition and movement analysis. Clinical trials.

4. Teaching methods:

Lectures.Computer practice. Laboratory practice. Consultations.

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	50.00
Test	Yes	10.00			
Test	Yes	10.00			

Literature				
Ord.	Author	Title	Publisher	Year
1,	Popović D, Sinkjær T.	Control of movement for physically disabled	Springer-Verlag, London	2000
2,	Thompson Sarcodie-Gian	Neurorehabilitation devices: engineering, design, measurement, and control	Irwin/McGraw Hill,Palo Alto	2006
3,	David J. Magee et al.	Scientific foundations and principles of practice in musculoskeletal rehabilitation	Saunders Elsevier Inc., St. Louis	2007

Table 5.2 Course specification

Course:		Advanced biomedical signal analysis
Course id:	BMI123	
Number of ECTS:	5	
Teachers:	Bajić D. Dragana, Lončar-Turukalo G. Tatjana	
Course status:	Mandatory	

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

Precondition courses	None

1. Educational goal:

Introduction of advanced biomedical signal processing methods adapted to high demands in practice, considering the limitations of signal processing methods and ways of overcoming them, learning about time-frequency analysis methods and multiresolution analysis with applications to one-dimensional signals

2. Educational outcomes (acquired knowledge):

Analysis of correlated processes and specific processing methods; power spectral density estimation; adjustment of processing methods for the analysis of non-stationary signals, types of time-frequency analysis, wavelets transformation, feature selection principles and relevant classification methods in diagnostic decision making

3. Course content/structure:

Analysis of coupled and correlated physiological processes, examples of coupled processes and interactions between systems
- Signal characterization in the frequency domain: estimation of power spectral density (PSD) (parametric and non-parametric methods, the use of window functions, resolution and spectral leakage), measures that can be derived from the spectral density: relation of power, moments. Illustrative examples of application of the methods in the frequency domain
- Specific analysis of non-stationary signal illustration of the examples of non-stationary biomedical signals, the use of time-frekvecnisjkih methods and specific, signal segmentation for further analysis, adaptive filters
- Time-frequency methods, Multiresolution analysis, wavelets transform and discrete filter banks, the application of one-dimensional biomedical signals
- The application of pattern recognition in the diagnostic decision-making, application examples and unsupervised classification methods, selecting relevant features with respect to the physiological background, the measures of diagnostics accuracy and reliability of the classifier

4. Teaching methods:

Lectures, lab excersices

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	Edited by Sergio Cerutti, Carlo Marchesi	Advanced Methods of Biomedical Signal Processing	IEEE Press	2011
2,	Rangaraj M. Rangayyan	Biomedical Signal Analysis a Case-Study Approach	IEEE Press, Willey Interscience	2002
3,	E. Ifeachor and B. Jervis	Digital Signal Processing - A Practical Approach	Prantice Hall	1993
4,	Edited by Akram Aldrouby and Michael Unser	Wavelets in Medicine and Biology	CRC Press	1996
5,	Stephen Mallat	A Wavelet Tour of Signal Processing	Elsevier	2009

Table 5.2 Course specification

Course:		Bachelor Thesis			
Course id:	BMIZBR				
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	0		7
Precondition courses	None				

1. Educational goal:

Application of basic theoretical, acquired knowledge and methods for solving concrete problems within the chosen field. A student studies a problem, its structure and complexity and, on the basis of the analysis, makes conclusions about the possible ways of solving it. By studying the relevant literature a student becomes familiar with the methods applied for solving similar tasks and the engineering practice for their solving. Acquiring the knowledge about the techniques, structure and form of writing a report after completing analysis and other activities accomplished within the given topic of the Bachelor thesis. Through a Bachelor thesis students acquires the experience in writing papers which involve the description of the problem, methodology, procedures and the achieved results in a form suitable for public presentation.

2. Educational outcomes (acquired knowledge):

The students are able to work independently applying the previously acquired knowledge from various areas in order to understand the structure of the problem faced and its systematic study so that conclusions can be made concerning the possible ways of solving it. Through independent use of the relevant literature the students extend the knowledge of the chosen field and study different methods and works related to the similar topics. Through independent work on solving the tasks in the given topic, the students gain knowledge about the complexity of the problem in their area of study. Working on their Bachelor theisi the students gain experience which they can apply in their future proffesional work in solving professional problems. In the preparation of the results for public presentation, defence and responding to the questions and comments of the committee, the student gains the necessary experience on how to present publicly the results of individual or team work.

3. Course content/structure:

It is formed individually in accordance with the needs and the field covered by the Bachelor Thesis topic. The student writes Bachelor Thesis in the written form in agreement with the supervisor and in accordance with the standards of the Faculty of Technical Sciences. The student prepares and defends the Bachelor Thesis publicly in agreement with the supervisor and in accordance with the standards. The student studies professional literature, professional and Bachelor thesis of the students dealing with similar topics, and conducts analysis with an objective to find out the solution to the specific problem defined in the Bachelor Thesis.

4. Teaching methods:

Bachelor Thesis supervisor sets the Bachelor Thesis problem and gives it to the student. The student is obliged to write the Bachelor Thesis within the given topic defined by the Bachelor Thesis problem. During writing the Bachelor Thesis, supervisor can give additional instructions to the student, suggest certain literature and additionally guide him with an objective to create a quality Bachelor Thesis. Within the theoretical part of the Bachelor Thesis, the student has consultations with the supervisor, and with other professors dealing with problems in the field of the Bachelor Thesis topic, if needed. Within the given topic, the student executes certain measurements, testing, counting, questionnaires and other research, if necessary. The student writes the Bachelor Thesis and gives the bounded examples to the board after gaining consent from the committee for assessment and defense. Defense of the Bachelor Thesis is public and the student is obliged to orally answer the questions

Knowledge evaluation (maximum 100 points)					
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Writing the final paper with theoretic basis	Yes	50.00	Final exam defence	Yes	50.00

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. Biomedical 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.

Biomedical Engineering study programme is comparable and coordinated with:

1.http://www.bu.edu/bme/
2.http://seas.yale.edu/departments/biomedical-engineering
3.http://bioengineering.stanford.edu/
4.http://www.ibme.ox.ac.uk/
5.http://www.biomed.polimi.it/BioIntro/

Standard 07. Student Enrollment

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

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

Standard 08.   Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students' accomplishments throughout the academic year and by passing the final examination. Students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course within the programme is worth a certain number of ECTS credits which students obtain by successfully passing the course examination. The number of ECTS credits is based on the quantity and quality of the work students are required to submit during a certain course and on the Faculty of Technical Sciences' unique methodology for all study programmes. Students' success in mastering a certain course is constantly monitored during classes and is expressed in points. The maximum number of points obtained in a course is 100.

Students obtain points from a course through their work during classes, completion of the pre exam duties and taking the examination. The minimal number of points a student can obtain by fulfilling the course pre exam assignments during classes is 30, the maximum 70. Each course at the study programme has a clear and transparent mode of obtaining points. The ways of obtaining points during the classes includes the number of points obtained on the basis of each individual activity during the classes or completing pre exam assignments and by passing the course examination. The final success of students at a course is presented with a grade from 5 (fail) to 10 (excellent). The student's grade is based on the overall number of points obtained by fulfilling pre exam duties and taking the examination, and in accordance with the quality of acquired knowledge and skills. For students to be able to take a course examination, they have to obtain at least 55% of the overall number of points through pre exam duties during the semester. Additional requirements for taking the examination are defined separately for every course. Student advancement during the studies is defined by the Regulations on postgraduate academic studies.

Standard 09.   Teaching Staff

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

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

The number of assistants is adequate for the needs of the study programme. The total number of assistants at the study programme is adequate to cover total number of classes.

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

None of the teacher has more than 12 hours of classes a week,All information regarding the teaching staff and assistants (CV, appointments, references) are available to public.

Science, arts and professional qualifications

Name and last name:		Adžić Z. Nevenka	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.09.1978	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1990	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1986	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E221A	Mathematical Analysis 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GG10	Mathematical Methods 3	(G00) Civil Engineering, Undergraduate Academic Studies
4.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
5.	S017	Mathematics 2	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	S0213	Mathematical Statistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	IM1012	Probability and Statistics	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
12.	IM1523	Discrete Mathematics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
13.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
14.	0M517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
15.	0ML517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
16.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
			(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
			(Z00) Environmental Engineering, Specialised Academic Studies
17.	D0M24	Numerical Solutions of Differential Equations	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(E20) Computing and Control Engineering, Doctoral Academic Studies
			(F00) Graphic Engineering and Design, Doctoral Academic Studies
			(F20) Engineering Animation, Doctoral Academic Studies
			(G00) Civil Engineering, Doctoral Academic Studies
			(GI0) Geodesy and Geomatics, Doctoral Academic Studies
			(H00) Mechatronics, Doctoral Academic Studies
			(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies
			(Z00) Environmental Engineering, Doctoral Academic Studies
			(Z01) Safety at Work, Doctoral Academic Studies
19.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	N. Adzic, On the spectral solution for boundary value problem, ZAMM 70,(1990) 6, T647-T649.
2.	V. Vrcelj, N. Adzic, Z. Uzelac: A numerical asymptotic solution for singular perturbation problems, International journal of computer mathematics, Vol.39, (1991) 229-238.
3.	N. Adzic: Modified hermite polynomials in the spectral approximation for boundary layer problems, Bulletin of the Australian mathematical society, Vol.45, (1992) 267-276.<\eng>
4.	N. Adzic: Spectral approximation for single turing point problem, ZAMM72(1992)6, T621-T624.
5.	N. Adzic: Nonclassical orthogonal polynomials and singularly perturbed problems, ZAMM73(1993) 7/8, T868-T871.
6.	N. Adzic: Spectral approximation and asymptotic behaviour of boundary layer problems, ZAMM74(1994)6, T-553-T555.
7.	N. Adzic, Z. Uzelac: A combination of spline and spectral approximation for a class of singularly perturbed problems, ZAMM78 (1998), S853-S854
8.	Z. Uzelac, N. Adzic: The Approximate Solution for Problems with Nonlocal Boundary Conditions, ZAMM79 (1999), S881-S882
9.	N. Adzic, Z. Uzelac: On spectral approximation for some two-dimensional singularly perturbed problems, ZAMM79 (1999), S851-S852
10.	N. Adzic: On the spectral approximation for singularly perturbed problems,ZAMM 71(1991)6,T773-T776.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Bajić D. Dragana
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.09.2000
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1995	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1984	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK313	Computer Communication	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	BMI105	Statistical basics, processing and modelling of biomedical signals	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI123	Advanced biomedical signal analysis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK202	Communication networks - introduction	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK460	Biomedical signal processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI21	Communication Protocols	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE411S	Signal processing in medical research	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK530	Nonlinear Biomedical Signal Processing	(OM1) Mathematics in Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK531	Multiuser Detection	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	SI029	Biomedical signal processing	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	BMIM2B	Biomedical statistics	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM2C	Multivariable analysis and complexity of physiological processes	(BM0) Biomedical Engineering, Master Academic Studies
15.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
16.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DE411	Signal Processing in Medical Research	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative refferences (minimum 5, not more than 10)			

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

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	156			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	1	International :	3

Science, arts and professional qualifications

Name and last name:	Bogdanović Ž. Vesna
Academic title:	Senior Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.12.1999
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
Magister thesis	2007	Faculty of Philosophy - Novi Sad	English
Bachelor's thesis	1999	Faculty of Philosophy - Novi Sad	English

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

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

Datum: 18.12.2012

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

	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vesna Marković, English in Civil Engineering, FTN Izdavaštvo, Novi Sad, 2004.
2.	Vesna Bogdanović, Ivana Mirović, Engleski jezik za grafičko inženjerstvo i dizajn 1, FTN Izdavaštvo, Novi Sad, 2007.
3.	Ivana Mirović, Vesna Bogdanović, Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN Izdavaštvo, Novi Sad, 2008
4.	Vesna Marković, English in Civil Engineering, drugo izdanje, FTN Izdavaštvo, Novi Sad, 2008.
5.	University of Novi Sad, Faculty of Technical Sciences, prevele: Marina Katić, Vesna Marković, Ivana Mirović, Fakultet tehničkih nauka, Novi Sad, 2004.
6.	Mr Vesna Bogdanović, Pačvork romani Alis Voker i Toni Morison, Beograd: Zadužbina Andrejević, 2009, ISBN 978-86-7244-743-9
7.	Bogdanović Vesna, Mirović Ivana, Ličen Branislava, Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 445-454
8.	Mirović Ivana, Bogdanović Vesna, Ličen Branislava, Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 170-176

	Representative refferences (minimum 5, not more than 10)
9.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 329-332
10.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova međunarodne konferencije Jezik struke – teorija i praksa, DSJKS, Beograd, 2008: 705-712

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

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering - biomedicine
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	School of Electrical Engineering - Beograd	Automatic Control and System Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI007	Digital Signal Processing in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU07	Signals and systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

Representative refferences (minimum 5, not more than 10)

1.	Popovic-Bijelic A., Bijelic G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
2.	Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X
3.	Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
4.	Popovic, M.B., Jorgovanovic, N., Bijelic, G., Bojanic, D., Popovic, D.B., Synergistic Control of Grasping and Releasing In Humans with Paralysis, Proc of REDISCOVER 2004 Southeastern Europe, USA, Japan and European Community Workshop on Research and Education in Control and Signal Processing, June 14-16, 2004, Cavtat, Croatia, pp 86-89.
5.	Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic-Bijelic, A., Popovic, D.B., Actitrode – a selective Array Electrode: A Tool to Generate Grasp and Release by Surface Electrical Stimulation, MEDICON, Ischia, July 31-August 5, 2004.
6.	Popovic-Bijelic, A., Bijelic, G., Jorgovanovic, N., Bojanic, D., Popovic, D.B., Popovic, M.B., Multi-field surface electrode for selective electrical stimulation, Proc 8th Vienna Workshop on FES, Sep 10-13, 2004., pp 195-198
7.	Bojanić D., Petrović R., Jorgovanović N., Popović D.: Dyadic Wavelets for Real-time Heart Rate Monitoring, 8. NEUREL - Symposium on Neural Network Applications in Electrical Engineering, IEEE, belgrade, 25-27 Septembar, 2006, pp. 133-136, ISBN 1-4244-0432-0
8.	Bojanic, D., Popovic, D.B., "QRS detection from an ongoing ECG recordings by using dyadic wavelets", 2nd European Medical and Biological Engineering Conference, Vienna, December, 2002.
9.	Bojanić D.: Razvoj ekspertnog sistema za interpretaciju elektrofizioloških signala, Doktorska disertacija, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, januar 2012.
10.	Bojanić Dubravka, "Detekcija QRS kompleksa u EKG signalu korišćenjem dyadic wavelet transformacije", Magistarska teza, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, februar 2003.

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

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

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2010		Electrical Measurements
Magister thesis	2000	School of Electrical Engineering - Beograd	Electrical Measurements
PhD thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1971	Faculty of Electronic Engineering - Niš	Electronics

	ID	Course name	Study programme name, study type
1.	E130A	Electrical Measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE420A	Measurement systems in power sector	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EIDMS1	Microprocessor based measurement and data acquisition systems 1	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIDMS2	Microprocessor based measurement and data acquisition systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	EIJNZZ	Ionizing and Non-Ionizing Radiation and Protection	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIMMBM	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	MR0ULR	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
12.	SI019	Quality in Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	SI048	Measurement Systems in the Field of Biomedicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies

Representative refferences (minimum 5, not more than 10)

1.	G.Bojković, V.Bajović, Lj.Živanov: "A Microprocessor based control of multichannel measuring system for temperature regulation", Proc.of the XXIX JUREMA 1984, Zagreb,pp.63-68, 1984.
2.	M.Nimrihter, R.Ćirić, G.Bojković, Z.Radojević, M.Kostić, "Real and pseudo-measurements in distribution networks", Proc. 11th International Symposium on Power Electronics - Ee 2001, Noi Sad, Yugoslavia, Oktober 31- November 2, 2001.
3.	D.Kukolj, V.Bajović, M.Berko, G.Bojković: "Development and analysis of the diagnostic methodology based on machine learning", Technical report, University of Novi Sad, Yugoslavia. Citat: C4.

	Representative refferences (minimum 5, not more than 10)
4.	D. Kukolj, V. Bajović, V. Kovačević, G. Bojković, "Fault Diagnosis by Combined Machine Learning Techniques", Second World Automatic Congress, WAC "96, First International Symposium on Intelligent Automation and Control, Montpellier, France, May 1996.
5.	G. Bojković, M. Nimrihter, V. Bajović, "MEASUREMENT-ACQUISITION SYSTEMS AND CONTROL", Proc. 11th International Symposium on Power Electronics - Ee 2001, Noi Sad, Yugoslavia, Oktober 31- November 2, 2001.
6.	V. Bajović, I. Konvalinka, G. Bojković, "Leak Detection On Outlet Pipes of Gas Transmission System Using Artificial Intelligence Methods," (in Serbo-Croatian with abstract in English) Proc. of the XXXVI Yug. Conf. ETAN,Kopaonik, YU, 1992.
7.	I. Konvalinka, V. Kovačević, V. Bajović, G. Bojković, "Decision Trees Development for Leak Detection on Gas Transmission System Using Stationary Model and Machine Learning from Examples," Proc. of the First International Conference on Intelligent Systems Engineering, Edinburgh, UK, Aug. 19-21, 1992, pp. 330-335.
8.	G. Bojković, V. Bajović, "THE IMPACT OF PROCESS MEASUREMENT ON INDUSTRIAL DIAGNOSTICS", Facta Universitates, Vol. 13, No. 2, August 2000, 143--155.
9.	V. Bajović, G. Bojković, V. Kovačević, " Knowledge based system for faulty components detection in production testing of electronic device", International Symposium on Electronics and the Environment, San Francisco, CA, USA, pp. 257-260, 1997.
10.	M. Nimrihter, G. Bojković, V. Bajović, Z. Radojević, "State Estimation in Radial Distribution Networks", International Conference on Operations Research, 2 - 5 September, Klagenfurt, Austria.

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

Science, arts and professional qualifications

Name and last name:	Borovac A. Branislav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1975
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1982	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
2.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1404	Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	BM116A	Basics of medical robotics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	II1035	Industrial robotics	(I10) Industrial Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	H1503	Non Industrial Robotics and Automation in Buildings	(H00) Mechatronics, Master Academic Studies
			(I10) Industrial Engineering, Master Academic Studies
10.	HDOK1 S	Selected topics in industrial robotics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	HDOK2 S	Selected topics in non-industrial robotics	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
13.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	AD0007	Interactive systems in architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
15.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
16.	H829	Advanced robotics	(I10) Industrial Engineering, Master Academic Studies
			(M40) Technical Mechanics and Technical Design, Master Academic Studies
17.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
18.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	HDOK-1	Selected Chapters in Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	HDOK-2	Selected Chapters in Non-Industrial Robotics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	HDOKL1	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
22.	HDOKL2	Selected topics in non-industrial robotics	(H00) Mechatronics, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
23.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	M. Vukobratović, V. Potkonjak, K. Babković, B. Borovac, Simulation model of general human and humanoid motion, Multibody System Dynamics, Volume 17, Number 1, (February, 2007), pp. 71-96 (ISSN 1384-5640 (Print) 1573-272X (Online))
2.	Vukobratović M., Borovac B., Potkonjak V., Towards a Unified Understanding of Basic Notions and Terms in Humanoid Robotics, Robotica (2007) Vol. 25, pp. 87-101
3.	Vukobratović M., Borovac B., Potkonjak V., ZMP: A Review of Some Basic Misunder-standings, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 153-176
4.	V. Potkonjak, M. Vukobratović, K. Babković, B. Borovac, General Model of Dynamics of Human and Humanoid Motion: Feasibility, Potentials and Verification, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 21-48
5.	Vukobratović M., Borovac B., Babković K., "Contribution to the Study of Anthropomorphism of Humanoid Robots", Int. Jour. of Humanoid Robotics, Vol. 2, No. 3 (2005), pp. 361-387
6.	Vukobratović M., Borovac B., Note on the Article "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 2, No.2, June 2005, pp. 225-227
7.	Vukobratović M., Borovac B., "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 1, No.1, March 2004, pp. 157-173
8.	M. Vukobratović, D. Andrić, B. Borovac, "How to Achieve Various Gait Patterns from Single Nominal ", International Journal of Advanced Robotic Systems, Vol. 1., No. 2, Page 99-108, 2004
9.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11, (2001), pp.869-897
10.	M. Vukobratović, D. Andrić, B. Borovac, "Humanoid Robot Motion in Unstructured Environment - Generation of Various Gait Patterns from a Single Nominal ", Cutting Edge Robotics, Edited by V. Kordic, A. Lazanica, M. Merdan, Published by pIV pro literatur Ver-lag Robert Mayer-Scholz, © 2005 Advanced Robotic Systems International, Page 577-598, 2005

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	1998			
Total of SCI(SSCI) list papers :	35			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Budak M. Igor
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	06.09.2001
Scientific or art field:	Metrology, Quality, Fixtures and Ecological-Engineering Aspects

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Metrology, Quality, Fixtures and Ecological-Engineering Aspects
PhD thesis	2009	Faculty of Mechanical Engineering - Ljubljana	Metrology, Quality, Fixtures and Ecological-Engineering Aspects
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

	List of courses being held by the teacher in the accredited study programmes		
	ID	Course name	Study programme name, study type
1.	IA018	3D Digitalization Methods	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P1401	Fixture Design and Measuring Machines	(P00) Production Engineering, Undergraduate Academic Studies
3.	P1508	Reverse Engineering and CAQ	(P00) Production Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	P209	Measurements and Quality	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
5.	P306	Fixtures	(P00) Production Engineering, Undergraduate Academic Studies
6.	Z207	Mechanical Engineering in Environmental Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z207A	Mechanical Engineering in Environmental Engineering	(Z01) Safety at Work, Undergraduate Academic Studies
8.	Z301	Pollution Measurement and Control	(Z01) Safety at Work, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	Z416	EMS Systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	ZRI441	Material handling systems for environmental and labor protection	(Z01) Safety at Work, Undergraduate Academic Studies
11.	Z416	EMS sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	P322	Introduction to Precision Engineering	(P00) Production Engineering, Undergraduate Academic Studies
14.	ZC036	Measurement and control of pollution	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
15.	P1409	Material Control Systems and CAI	(PM0) Production Engineering, Master Academic Studies
16.	P1501	Ecological Technologies and Systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies
			(PM0) Production Engineering, Master Academic Studies
17.	Z416A	Environment Protection System Management	(PM0) Production Engineering, Master Academic Studies
18.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies
			(PM0) Production Engineering, Master Academic Studies
19.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
20.	PIP16	Plastics and environmental protection	(PM0) Production 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
21.	PLIS1	Logistics and Simulation in Technologies of Plastics Processing	(PM0) Production Engineering, Master Academic Studies
22.	PP103	Measurement and tools in precision engineering	(PM0) Production Engineering, Master Academic Studies
23.	SM3	Software support for reverse engineering and CAQ	(PM0) Production Engineering, Master Academic Studies
24.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies
25.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
26.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
27.	DP006	State and development trends of metrology, quality and fixtures	(M00) Mechanical Engineering, Doctoral Academic Studies
28.	DP013	Ecological Engineering Aspects	(M00) Mechanical Engineering, Doctoral Academic Studies
29.	DP019	Selected topics in technical diagnosis	(M00) Mechanical Engineering, Doctoral Academic Studies
30.	ZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Doctoral Academic Studies
31.	ZSP18	Modern Scientific Approaches in Product Life Cycle Assessment (LCA)	(Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Budak I., Vukelić Đ., Bračun D., Hodolič J., Soković M.: Pre-Processing of Point-Data from Contact and Optical 3D Digitization Sensors, Sensors, 2012, Vol. 12, No 1, pp. 1100-1126, ISSN 1424-8220

2. Tadić B., Jeremić B., Todorović P., Vukelić Đ., Proso U., Mandić V., Budak I.: Efficient workpiece clamping by indenting cone-shaped elements, International Journal of Precision Engineering and Manufacturing, 2012, Vol. 13, No 10, pp. 1725-1735, ISSN 2234-7593

3. Kosec G., Nagode A., Budak I., Antić A., Kosec B.: Failure of the pinion from the drive of a cement mill, Engineering Failure Analysis, 2011, Vol. 18, pp. 450-454, ISSN 1350-6307

4. Budak I., Soković M., Barišić B.: Accuracy improvement of point data reduction with sampling-based methods by Fuzzy logic-based decision-making, MEASUREMENT, 2011, Vol. 44, No 6, pp. 1188-1200, ISSN 0263-2241

5. Budak I., Hodolič J., Soković M.: Development of a programme system for data-point pre-processing in Reverse Engineering, Journal of Materials Processing Technology, 2005, Vol. 162, pp. 730-735, ISSN 0924-0136

6. Jevremović D., Puškar T., Budak I., Vukelić Đ., Kojić V., Eggbeer D., Williams R.: An RE/RM approach to the design and manufacture of removable partial dentures with a biocompatibility analysis of the F75 Co-Cr SLM alloy, Materijali in tehnologije, 2012, Vol. 46, No 2, pp. 123-129, ISSN 1580-2949

7. Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871

8. Agarski B., Kljajin M., Budak I., Tadić B., Vukelić Đ., Bosak M., Hodolič J.: Application of multi-criteria assessment in evaluation of motor vehicles' environmental performances, Tehnički vjesnik/Technical Gazette, 2012, Vol. 19, No 2, pp. 221-226, ISSN 1330-3651

9. Vukelić Đ., Miljanić D., Ranđelović S., Budak I., Džunić D., Erić M., Pantić M.: Burnishing process based on optimal depth of workpiece penetration (Article in press, date of acceptance 28.08.2012, Manuscript Number: MIT-45-2012), Materijali in tehnologije, 2012, ISSN 1580-2949

10. Vukelić Đ., Tadić B., Miljanić D., Budak I., Todorović P., Ranđelović S., Jeremić B.: Novel workpiece clamping method for increased machining performance, Tehnički vjesnik-Technical Gazette, 2012, Vol. 19, No 4, pp. 837-846, ISSN 1330-3651.

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

Quotation total :	25			
Total of SCI(SSCI) list papers :	20			
Current projects :		Domestic :	4	International :	7

Science, arts and professional qualifications

Name and last name:	Budinski-Petković M. Ljuba
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1989
Scientific or art field:	Physics

Academic carieer	Year	Institution	Field
Academic title election:	2009		Physics
PhD thesis	1998	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1996	Faculty of Physics - Beograd	Physics
Bachelor's thesis	1988	Faculty of Sciences - Novi Sad	Physics

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

	ID	Course name	Study programme name, study type
1.	E215	Physics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(H00) Mechatronics, Undergraduate Academic Studies
3.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
4.	BMI93	Physics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
			(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
			(Z00) Environmental Engineering, Specialised Academic Studies
6.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(E20) Computing and Control Engineering, Doctoral Academic Studies
			(F00) Graphic Engineering and Design, Doctoral Academic Studies
			(G00) Civil Engineering, Doctoral Academic Studies
			(GI0) Geodesy and Geomatics, Doctoral Academic Studies
			(H00) Mechatronics, Doctoral Academic Studies
			(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies
			(Z00) Environmental Engineering, Doctoral Academic Studies
			(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Budinski-Petković Lj., Lončarević I., Petkovic M., Jaksic Z., Vrhovac S.: Percolation in random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2012, Vol. 85, No 061117, pp. 1-8
2.	Šćepanović J., Lončarević I., Budinski-Petković Lj., Jakšić Z., Vrhovac S.: Relaxation properties in a diffusive model of k-mers with constrained movements on a triangular lattice, Physical Review E, 2011, Vol. 84, No 031109, pp. 1-13
3.	Budinski-Petković Lj., Lončarević I., Jakšić Z., Vrhovac S., Švrakić N.: Simulation study of anisotropic random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2011, Vol. 84, No 5, pp. 5160-1

	Representative refferences (minimum 5, not more than 10)		
4.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468		
5.	Lončarević I., Budinski-Petković Lj., Vrhovac Lj., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2		
6.	Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates, Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7		
7.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice , The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941		
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice, Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9		
9.	Arsenović D., Vrhovac S., Jakšić Z., Budinski-Petković Lj., Belić A.: Simulation study of granular compaction dynamics under vertical tapping, Physical Review E, 2006, Vol. 74		
10.	Lj. Budinski-Petković and S. B. Vrhovac: Memory effects in vibrated granular systems: Response properties in the generalized random sequential adsorption model, The European Physical Journal E, 2005, Vol. 16, pp. 89-96, ISSN 1292-8941		
	Summary data for teacher's scientific or art and professional activity:		
Quotation total :	75		
Total of SCI(SSCI) list papers :	30		
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Crnojević S. Vladimir
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	10.11.1995
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2010		Telecommunications and Signal Processing
PhD thesis	2004	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK412	Shape Recognition	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	URZP32	Systems for Detection, Alarm and Warning	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	BM129A	Digital Image Processing	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK463	Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	DE311S	Selected topics in Pattern Recognition	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE511S	Wireless sensor networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK520	Medical Image Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	H1420	Fundamentals in Mechanical Vision	(H00) Mechatronics, Master Academic Studies
13.	IMDS54	Computer Vision in Industrial Engineering and Management	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
14.	ZP508	Design and Maintenance of the Fire Detection Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	DE311	Selected Chapters in Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	DE511	Wireless Sensor Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
18.	IMDR54	Computer Vision in Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)	
1.	Dejan Vukobratovic, Cedomir Stefanovic, Vladimir Crnojevic, Francesco Chiti, Romano Fantacci: "Rateless Packet Approach for Data Gathering in Wireless Sensor Networks", IEEE Journal on Selected Areas in Communications, Vol. 28, No. 7, pp. 1169-1179, September 2010.
2.	Petrovic, N.I.; Crnojevic, V.: Universal Impulse Noise Filter Based on Genetic Programming, IEEE Transactions on Image Processing, 2008, Vol. 17, No. 7, str. 1109- 1120, ISSN 1057-7149
3.	D. Culibrk, M. Mirkovic, V.Zlokolica, M. Pokric, V. crnojevic, D. Kukolj, "Salient Motion Features for Video Quality Assessment", IEEE Trans. on Image Processing, Volume: 20 Issue:4, pp(s): 948 - 958, ISSN: 1057-7149
4.	Cedomir Stefanovic, Dejan Vukobratovic, Francesco Chiti, Lorenzo Niccolai, Vladimir Crnojevic, Romano Fantacci: "Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes", IEEE Journal on Selected Areas in Communications, Vol. 29, No. 1, pp. 94-102, January 2011.
5.	Vladimir Crnojević, Nemanja Petrović, „Impulse Noise Filtering Using Robust Pixel-Wise S-estimate of Variance", EURASIP Journal on Advances in Signal Processing, vol. 2010, Article ID 830702, 10 pages, 2010,
6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593.
7.	B. Antić, V. Crnojević, „Joint Domain-Range Modeling of Dynamic Scenes with Adaptive Kernel Bandwidth", pp.777-788, LNCS 4678, Springer-Verlag, Berlin Heidelberg 2007.
8.	N. Petrović, V. Crnojević, „Evolutionary Tree-Structured Filter for Impulse Noise Removal", pp.103-113, LNCS 4179, Springer-Verlag, Berlin Heidelberg 2006.
9.	N. Petrović, V. Crnojević, „Impulse Noise Detection Based on Robust Statistics and Genetic Programming", pp.643-649, LNCS 3708, Springer-Verlag, Berlin Heidelberg 2005.
10.	V. Crnojević,„Impulse Noise Filter With Adaptive Mad-Based Threshold", International Conference on Image Processing, Genoa, Italy, 11-14. September, 2005.
Summary data for teacher's scientific or art and professional activity:	

Quotation total :	135			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	3	International :	10

Science, arts and professional qualifications

Name and last name:	Crnojević-Bengin B. Vesna
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.11.1998
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Electronics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	1997	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EM440	Computer-Aided Electronic Circuit Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	URZP32	Systems for Detection, Alarm and Warning	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
3.	ASO	Introduction to engineering	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
4.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BMI108	RF and microwaves in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EK322	RF and microwave engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK454	RF and microwave engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EM408A	RF and microwave electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EM420A	Modelling and simulation of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI26	RF and microwave technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	M4001	Fundamentals of electronic systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
12.	DE102S	Microwave Technique 1	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE500S	Microwave Technique 2	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	EM515	Periodic Structures and Metamaterials	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	SI022	Selected topics from microwave engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI034	Application of metamaterials in the microwave engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	ZP508	Design and Maintenance of the Fire Detection Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
18.	EM518A	Advanced simulation techniques of RF and microwave circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
19.	DE102	Microwave Technique 1	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
20.	DE500	Microwave Technique 2	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

	Representative refferences (minimum 5, not more than 10)
1.	V. Crnojevic-Bengin, V. Radonic, and B. Jokanovic: Fractal Geometries of Split-Ring Resonators, IEEE Transactions of Microwave Theory and Techniques, Vol. 56, No. 10, pp. 2312-2321, October 2008.
2.	B. Jokanovic, V. Crnojevic-Bengin, O. Boric-Lubecke, Miniature High Selectivity Filters Using Grounded Spiral Resonators,Electronics Letters, Vol. 44, No. 17, 14th August 2008
3.	V. Radonić, V. Crnojević-Bengin, Super-compact stopband filter based on grounded patch resonator, Electronic letters, Vol. 46, No. 2, pp. 146-147, ISSN: 0013-5194, January 2010.
4.	V. Crnojević-Bengin, V. Radonić, B. Jokanović, "Left-handed microstrip lines with multiple complementary split-ring and spiral resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2007), vol. 49, no.6, pp. 1391-1395
5.	V. Crnojević-Bengin, "Compact 2D Hilbert microstrip resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2006) vol.48, no.2, pp. 270-273
6.	V. Crnojević-Bengin, Đ. Budimir, "Novel 3-D Hilbert Microstip Resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, John Willey, vol. 46, no. 3, pp. 195-197, August 2005, ISSN: 0895-2477.
7.	B. Jokanović, V. Crnojević-Bengin, "Novel left-handed transmission lines based on grounded spirals," Microwave and Optical Technology Letters, John Willey, Vol. 49, No. 10, oktobar 2007, pp. 2561-2567
8.	V. Radonic, K.Palmer, G. Stojanovic and V.Crnojevic-Bengin, Flexible Sierpinski Carpet Fractal Antenna on a Hilbert Slot Patterned Ground, International Journal of Antennas and Propagation, Vol. 2012, Article ID 980916, doi:10.1155/2012/980916
9.	Zemlyakov, Kirill; Crnojevic-Bengin, Vesna, Planar low-pass filters based on hilbert fractal, MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 2012 54 (11):2577-2581
10.	V. Radonić, K.D. Palmer and V. Crnojević-Bengin: "A dipole antenna design incorporating both electromagnetic bandgap and zero-refractive index metamaterials," METAMATERIALS, St. Petersburg, Russia, 17-22 September 2012

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	9			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	3

Science, arts and professional qualifications

Name and last name:	Cvijanović B. Milan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Medical Faculty in Novi Sad - Novi Sad
	01.10.2000
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2005	Medical Faculty in Novi Sad - Novi Sad	Medical Science
PhD thesis	2005	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Magister thesis	1999	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Education Specialist Thesis	1990	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Bachelor's thesis	1983	Medical Faculty in Novi Sad - Novi Sad	Medical Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BMI109	Neurophysiology and rehabilitation medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)
1. Cvijanović M., Ilin M., Žikić M. F wave in diagnosis of metabolic neuropathies, In J Neurolog. Sciences Suppl. Vol. 150. 1997. S 2-16-02
2. Cvijanović M., Ilin M., Matović T., Žikić M. Electrophysiologie parameters as diagnosis criteria in assessing prevalence of diabetic polyneuropathy, In J Neurolog. Sciences Suppl. Vol. 150-1997 S 2-16-03.
3. Ilin M., Cvijanović M., Matović T., Žikić M. F wave chronodispersion-Contribution to parameter standardization, In J Neurolog. Sciences Suppl. Vol. 150. 1997. S 5-16-02
4. Milan Cvijanović, Sofija Banić Horvat. Modaliteti F talasa u dijagnostici metabolijskih neuropatija. VII Jugoslovenski kongres klinićke neurofiziologije sa međunarodnim učešćem. Regionalni kurs EEG i spavanje. V simpozijum neurofizioloških asistenata. Zbornik radova i sažetaka. Beograd 2001.
5. Kovač I., Cvijanović M., Matović T. Ispitivanje kasnih odgovora i njihov značaj u konvencionalnoj kliničkoj elektromiografiji,(uvodno predavanje) III Kongres neurologa Jugoslavije Beograd 1993. Zbornik radova.

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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	AU50	Process Control by Computer	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI125	Biological Control Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	E2311	Automation in smart office-residential buildings	(E20) Computing and Control Engineering, Undergraduate Academic Studies
12.	EMSAU 1	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
14.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
15.	SEAU04	Software of BMS	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
16.	SEAU06	Software of Process Computers	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	AU514	Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Master Academic Studies
19.	S054	Computer Modelling and Simulation	(S01) Postal Traffic and Telecommunications, Master Academic Studies

	ID	Course name	Study programme name, study type
		List of courses being held by the teacher in the accredited study programmes	
20.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
21.	SEAM02	Adaptive and advanced control	(SE0) Software Engineering and Information Technologies, Master Academic Studies
22.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
23.	SEAM05	Dynamic Programming, combinatorial and network optimization	(SE0) Software Engineering and Information Technologies, Master Academic Studies
24.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
25.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788

2. Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788

3. Čongradac V., Bojanić D., Čapko D.: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy, 2012, Vol. 86, No 9, pp. 2762-2770, ISSN 0038-092X

4. Čongradac V., Kulić F.: HVAC system optimization with CO_2 concentration control using genetic algorithms, Energy and Buildings, 2009, ISSN 0378-7788

5. Čongradac V.: Control of the lighting system using a genetic algorithm, Thermal Science, 2012, Vol. 16, No 1, pp. 237-250, ISSN 0354-9836, UDK: 621

6. Čongradac V.: Business process management in sustainable property/asset management by using the totalobserver, Thermal Science, 2012, Vol. 16, No 1, pp. 269-279, ISSN 0354-9836, UDK: 621

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	6			
Current projects :		Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Damnjanović S. Mirjana
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1994
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Electronics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

Representative refferences (minimum 5, not more than 10)

1. Raghavendra R., Bellew P., Mcloughlin N., Stojanović G., Damnjanović M., Desnica V., Živanov Lj.: Characterization of Novel Varistor Inductor Integrated Passive Devices , IEEE Electron Devices Letters, 2004, Vol. 25, No 12, pp. 778-780, ISSN 0741-3106, UDK: 10.1109/LED.2004.838321

2. Menićanin A., Damnjanović M., Živanov Lj., Aleksić O.: Improved Model of T-Type LC EMI Chip Filters Using New Microstrip Test Fixture , IEEE Transactions on Magnetics, 2011, Vol. 47, No 10, pp. 3975-3978, ISSN 0018-9464, UDK: 10.1109/TMAG.2011.2150738

3. Damnjanović M., Živanov Lj., Stojanović G., Menićanin A.: Influence of Conductive Layer Geometry on Maximal Impedance Frequency Shift of Zig-zag Ferrite EMI Suppressor, IEEE Transactions on Magnetics, 2010, Vol. 46, No 6, pp. 1303-1306, ISSN 0018-9464

4. Menićanin A., Damnjanović M., Živanov Lj.: Parameters Extraction of Ferrite EMI Suppressors for PCB Applications Using Microstrip Test Fixture, IEEE Transactions on Magnetics, 2010, Vol. 46, No 6, pp. 1370-1373, ISSN 0018-9464

5. Stojanović G., Damnjanović M., Živanov Lj.: Temperature dependence of electrical parameters of SMD ferrite components for EMI suppression , Microelectronics Reliability, 2008, Vol. 48, No 7, pp. 1027-1032, ISSN 0026-2714, UDK: 10.1016/j.microrel.2008.03.020

6. Damnjanović M., Živanov Lj., Nađ L., Đurić S., Biberdžić B.: A Novel Approach to Extending the Linearity Range of Displacement Inductive Sensor , IEEE Transactions on Magnetics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464

7. Stojanović G., Damnjanović M., Desnica V., Živanov Lj., Raghavendra R., Bellew P., Mcloughlin N.: High performance zig-zag and meander inductors embedded in ferrite material , Journal of Magnetism and Magnetic Materials, 2006, Vol. 297, No 2, pp. 76-83, ISSN 0304-8853, UDK: 10.1016/j.jmmm.2005.02.058

	Representative refferences (minimum 5, not more than 10)			
8.	Damnjanović M., Stojanović G., Desnica V., Živanov Lj., Ramesh R., Pat B., Neil M.: Analysis, design and characterization of ferrite EMI suppressors, IEEE Transactions on Magnetics, 2006, Vol. 42, No 2, pp. 270-277, ISSN 0018-9464, UDK: 10.1109/TMAG.2005.860485			
9.	Damnjanović M., Živanov Lj., Đurić S., Marić A., Menićanin A., Radosavljević G., Blaž N.: Characterization and modelling of miniature ferrite transformer for high frequency applications, Microelectronics International, 2012, Vol. 29, No 2, pp. 83-89, ISSN 1356-5362			
10.	Đurić S., Nađ L., 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			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	77			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Delić D. Vlado
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1989
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1993	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
6.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK452	Monitoring and Noise Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI29	Monitoring and Noise Protection	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE212S	Selected Chapters in Acoustics and Audio Engineering	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE512S	Human-Machine Speech Communication	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies
19.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	S1596	Acoustics and Audio Engineering in Traffic	(S01) Postal Traffic and Telecommunications, Master Academic Studies
21.	DE111	Algorithms for Digital Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(H00) Mechatronics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DE212	Selected Chapters in Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
23.	DE512	Human-Machine Speech Communication	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	"Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition", V. Delić, M. Bojanić, M. Gnjatović, M. Sečujski, S.T. Jovičić; Electronics and Electrical Engineering, ISSN 1392-1215, Vol. 18, No. 9, November of 2012, pp. 51-54, DOI:10.5755/j01.eee.18.9.2806
2.	"Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy", I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379
3.	"Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction", M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5
4.	"A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models", B. Popović, M. Janev, D. Pekar, N. Jakovljević, M. Gnjatović, M. Sečujski, V. Delić; Applied Intelligence, Springer-Verlag N. York, Inc., ISSN 0924-669X, Volume 37, Number 3, Page 377-389, (2012) DOI: 10.1007/s10489-011-0333-9
5.	"Automatska konverzija tekstualnih informacija u govor", M. Sečujski, V. Delić; - kumulativna naučnotehnička informacija - Monografska serija ISSN 1820-3418, Naučnotehničke informacije, ISBN 978-86-81123-25-6, Vol. XLVI, No. 4, Vojnotehnički institut, Beograd, 2011, 56 strana
6.	"Stereo Presentation and Binaural Localization in a Memory Game for the Visually Impaired", V. Delić, N. Vujnović Sedlar; 2nd COST 2102 International Training School, Dublin, Ireland, 23 27.03.2009, Revised Selected Papers in Development of Multimodal Interfaces: Active Listening and Synchrony, Lecture Notes in Artificial Intelligence, LNAI; A. Esposito et al. (Eds.) , Springer, Heidelberg, ISBN 978-3-642-12396-2, LNCS 5967, ISSN: 0302-9743, April 2010, pp. 354-363, DOI: 10.1007/978-3-642-12397-9
7.	"Efficient ECG Modeling using Polynomial Functions", S. Jokić, V. Delić, Z. Perić, S. Krčo, D. Sakač; Electronics and Electrical Engineering, ISSN 1392-1215, No. 4(110), April of 2011, pp. 121-124
8.	"Pattern Evaluation Tests of Software-Based Acoustic Measuring Systems", M. Stojiljković, V. Delić; 6th Forum Acusticum 2011, 27. June - 1 July, Aalborg, Denmark, European Acoustic Asociation, pp. 391 396, (Acta Acustica United with Acustica – Addendum, Vol. 97, No. 3, May/June 2011, ISBN: 978-84-694-1520-7, ISSN 1610-1928, European Acoustic Asociation
9.	"Zbirka zadataka iz digitalnih telekomunikacija", V. Milošević, V. Delić, FTN&Stylos, 1996, p.189 i FTN, 2005, p.282
10.	"Zbirka zadataka iz digitalne obrade signala", V. Delić, M. Sečujski, I. Radić, FTN, 2007, str. 176, (ISBN 978-86-7892-082-0)

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

Quotation total :	52			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	4	International :	0

Science, arts and professional qualifications

Name and last name:	Doronjski R. Aleksandra
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Medical Faculty in Novi Sad - Novi Sad
	04.07.2007
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2007	Medical Faculty in Novi Sad - Novi Sad	Medical Science
PhD thesis	1994	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Magister thesis	1987	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Bachelor's thesis	1981	Medical Faculty in Novi Sad - Novi Sad	Medical Science

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

	ID	Course name	Study programme name, study type
1.	BMI111	Medical ethics and sociology	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Stojanović V., Mitić I., Jokić R., Vučković N., Doronjski A., Vijatov-Đurić G., Milošević B., Đapić M.: Splenic peliosis in the course of IgA nephropathy , Pediatric nephrology, 2007, Vol. 22, No 12, pp. 2137-2140, ISSN 0931-041X
2.	Stojanović V., Vučković N., Spasojević S., Barišić N., Doronjski A., Žikić D.: The influence of EPO and hypothermia on the kidneys of rats after perinatal asphyxia. , Pediatric nephrology, 2012, Vol. 27, pp. 139-144, ISSN 0931-041X
3.	Stojanović V., Doronjski A., Spasojević S., Pavlović V., Nikolić M., Kovačević B.: Chronic Inflammatory Demyelinating Polyradiculoneuropathy in a 8-Year-Old Girl, Complicated by Deafness and Kidney Fibrosis , J Child Neurol, 2009, Vol. 24, No 8, pp. 997-1000
4.	Spasojević S., Pavlović V., Stojanović V., Kovačević B., Doronjski A.: Prenatal urinary acites due to the idiopathic bladder rupture , The Journal of Maternal-Fetal & Neonatal Medicine, 2009, Vol. 22, No 6, pp. 537-539
5.	Stojanović V., Barišić N., Doronjski A., Kovačević B.: A case of transient hyperammonemia in newborn, The Journal of Maternal-Fetal & Neonatal Medicine, 2010, Vol. 23, No 4, pp. 347-350
6.	Stojanović V., Vučković N., Barišić N., Doronjski A.: Histopathologic changes in rat kidneys exposed to acute and chronic immobilization stress. 2010. In press., STRESS HEALTH, 2010, ISSN 1532-3005
7.	Spasojević S., Doronjski A.: A simultaneous comparison of four neonatal pain scales in clinical settings, Journal of Maternal-Fetal & Neonatal Medicine, 2011, Vol. 24, No 4, pp. 590-594

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:	Došen R. Strahinja
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	Aalborg University, Center for Sensory-Motor Interaction, Department of 01.11.2005
Scientific or art field:	Automatic Control and System Engineering - Geoinformatics

Academic carieer	Year	Institution	Field
Academic title election:	2012		Automatic Control and System Engineering - Geoinformatics
PhD thesis	2008	Aalborg University, Center for Sensory-Motor Interaction, Department of Health Science and Technology - Padej	Biotechnic Science
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Biotechnic Science
Bachelor's thesis	2000	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering - Geoinformatics

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

	ID	Course name	Study programme name, study type
1.	BMI113	Neuroengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	AU504	Movement Control	(E20) Computing and Control Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ning J, Dosen S, Klaus-Robert M, Farina D, "Myoelectric Control of Artificial Limbs-Is There a Need to Change Focus?," IEEE Signal Processing Magazine, vol. 29, no. 5, pp. 47-150, SEP 2012.
2.	Krigslund R, Dosen S, Popovski P, Dideriksen J, Pedersen GF, Farina D, "A Novel Technology for Motion Capture Using Passive UHF RFID Tags,"IEEE Trans Biomed Eng, 2012 Jul 20. [Epub ahead of print]
3.	Popović Maneski L, Jorgovanović N, Ilić V, Došen S, Keller T, Popović MB, Popović DB, "Electrical stimulation for the suppression of pathological tremor," Med Biol Eng Comput, vol. 49, no. 10, pp. 1187-93, 2011.
4.	Došen S, Popović DB, "Transradial prosthesis: artificial vision for control of prehension," Artif Organs, vol. 35, no. 1, pp. 37-48, 2011.
5.	Dosen S, Cipriani C, Kostić M, Controzzi M, Carrozza MC, Popović DB, "Cognitive vision system for control of dexterous prosthetic hands: experimental evaluation," J Neuroeng Rehabil, vol. 7, no. 42, 2010.
6.	Iftime SD, Dosen S, Popović MB, Popović DB, "Learning arm/hand coordination with an altered visual input," Comput Intell Neurosci, Epub 2010, doi: 10.1155/2010/520781.
7.	Kojović J, Djurić-Jovicić M, Dosen S, Popović MB, Popović DB, "Sensor-driven four-channel stimulation of paretic leg: functional electrical walking therapy," J Neurosci Methods, vol. 181, no. 1, pp. 100-5, 2009.
8.	Popović DB, Bijelić G, Miler V, Dosen S, Popović MB, Schwirtlich L, "Lumbar stimulation belt for therapy of low-back pain," Artif Organs, vol. 33, no. 1, pp. 54-60, 2009.
9.	Dosen S, Popović DB, "Moving-window dynamic optimization: design of stimulation profiles for walking," IEEE Trans Biomed Eng, vol. 56, no. 5, pp. 1298-309, 2009.
10.	Došen S, Popovi DB, "Accelerometers and force sensing resistors for optimal control of walking of a hemiplegic," IEEE Trans Biomed Eng, vol. 55, no. 8, pp. 1973-84, 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:	Đurić M. Nikola
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1997
Scientific or art field:	Theoretical Electrotechnics

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

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

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

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

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)	
1.	Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883
3.	Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215
4.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836
5.	Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215
6.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445
7.	Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X
8.	Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X
9.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456
10.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8

Summary data for teacher's scientific or art and professional activity:			
Quotation total :	1		
Total of SCI(SSCI) list papers :	9		
Current projects :	Domestic :	3	International : 0

Science, arts and professional qualifications

Name and last name:		Gak M. Dragana	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		16.09.2009	
Scientific or art field:		English	

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Entrepreneurial Management - Novi Sad	English
Magister thesis	2010	Faculty of Philosophy - Novi Sad	English and American Literature
Bachelor's thesis	2000	Faculty of Philosophy - Novi Sad	English

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(Z01) Safety at Work, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
			(Z01) Safety at Work, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

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

Datum: 18.12.2012

		List of courses being held by the teacher in the accredited study programmes	
	ID	Course name	Study programme name, study type
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Gak Dragana, Lorejn Hansberi i (afro) američka porodica, Zadužbina Andrejević, Beograd, 2012
2.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str. 705-709, Beograd, 2009.
3.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str.329-333, Beograd, 2009.
4.	Bogdanović Vesna, Gak Dragana, Univerzalana simbolika na primeru afro-američke zajednice u drami Lorejn Hansberi, Sveske, broj 98, decembar , Pančevo, 2010
5.	Gak Dragana, Borković Bojana, Needs Analysis: A Basis of a Successful Business English Course, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 880-885, Beograd, 2011.
6.	Bulatović Vesna, Gak Dragana, Speaking Skills: Advantages and Problems Involved When Teaching Business English, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 235-240, Beograd, 2011.
7.	Gak Dragana, Textbook - An Important Element in the Teaching Process, Metodički vidici, Filozofski fakultet Novi Sad, str.78-82, Novi Sad, 2011.

	Representative refferences (minimum 5, not more than 10)
8.	Gak Dragana, Questionnaire - an Instrument for Collecting Valuable Data from Teachers of Business English Courses, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012
9.	Mirović Ivana, Gak Dragana, Trust Me I'm an Engineer, Zbornik radova sa međunarodne konferencije The Importance of Learning Professional Foreign Language for Communication Between Cultures, Faculty of Logistics, University of Maribor, Slovenia, 2012.

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

Science, arts and professional qualifications

Name and last name:	Glavardanov B. Valentin
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	17.05.1990
Scientific or art field:	Deformable Body Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	1995	Faculty of Mathematics - Beograd	Deformable Body Mechanics
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F107	Technical Mechanics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	H202	Strength of materials	(H00) Mechatronics, Undergraduate Academic Studies
3.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
4.	M2412	Theory of Elasticity	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
5.	M4302	Biomechanics and mechanics of sport	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	M4304	Advanced strength of materials	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	M4306	Similarity and dimensional methods	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	M4401	Continuum mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
10.	BMI128	Continuum Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M4504	Thermal Elasticity	(M40) Technical Mechanics and Technical Design, Master Academic Studies
14.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
15.	DM402	Selected Chapters in Elasticity Theory	(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
16.	DM404	Selected Chapters in Mechanics of Continuum	(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
17.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	FDS143	Selected Chapters in Technical Mechanics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
19.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies
Representative refferences (minimum 5, not more than 10)			

Representative refferences (minimum 5, not more than 10)	
1.	Spasic D.T., Glavardanov B.V.: Stability of a rigid sphere supported by a thin elastic column, European Journal of Mechanics A-Solids, vol. 15, No 2, pp 337-350,1996
2.	Atanackovic M.T., Glavardanov B.V.: Twisted axially loaded rod with shear and compressibility, Acta Mechanica, vol.119, pp 119-130, 1996
3.	V. B. Glavardanov and T. M. Atanackovic, Stability of a pipe through which a sring is pulled. Int. J. Non-Linear Mechanics 35, 7–20 (2000).
4.	V. B. Glavardanov and T. M. Atanackovic, Optimal shape of a twisted compressed rod. European Journal of Mechanics A-Solids, 20, 795–809 (2001).
5.	T. M. Atanackovic, V. B. Glavardanov, Buckling of a twisted and compressed rod. International Journal of Solids and Structures, 39, 2987-2999 (2002)
6.	R.B. Maretić, V. B. Glavardanov, Stability of a Rotating Heated Circular Plate With Elastic Edge Support, Journal of Applied Mechanics-Transaction of the ASME, 71, 896-899, (2004)
7.	Valentin Glavardanov: Zbirka rešenih zadataka iz teorije elastičnosti, FTN, Novi Sad, 2003.
8.	T.M. Atanacković, V.B. Glavardanov: "Optimal shape of a heavy compressed column", Structural and Multidisciplinary Optimization, 28, 388-396, (2004)
9.	R. Maretic, V. Glavardanov and V. Mitic, Vibration and Stability of a Heavy and Heated Vertical Circular Plate, International Journal of Structural Stability and Dynamics, vol 10, No 5,1111-1121, 2010
10.	Glavaradnov V, Maretic R, Stability of a twisted and compressed clamped rod, Acta Mechanica, 202, 17-33, 2009
Summary data for teacher's scientific or art and professional activity:				
---	---	---	---	---
Quotation total :	2			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Govedarica J. Miro
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.02.1994
Scientific or art field:	Geodesy and Geomatics Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Geodesy and Geomatics Engineering
PhD thesis	2001	Faculty of Technical Sciences - Novi Sad	Geoinformatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1987	Faculty of Civil Engineering - Sarajevo	Geodesy

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU54	Geoinformation Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	E241	Geospatial Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	F114	Graphic applications	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	GI003	Geospatial Data Infrastructure	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI020	Laser Scanning of Terrain and Objects	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI408A	Geospatial Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
10.	Z410A	Geospatial technologies and systems	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z410	Geoinformacione tehnologije i sistemi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
14.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
15.	GI209	Photogrammetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
16.	GI406A	Fundamentals of Remote Sensing and Image Processing	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
17.	ZC028	Geospatial technologies and systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
18.	GI501	Geoportals and Geospatial Services	(GI0) Geodesy and Geomatics, Master Academic Studies
19.	GI502	Location Based Services	(GI0) Geodesy and Geomatics, Master Academic Studies
20.	GI504	Advanced Techniques of Laser Scanning	(GI0) Geodesy and Geomatics, Master Academic Studies
21.	GI517	Digital Photogrammetry	(GI0) Geodesy and Geomatics, Master Academic Studies
22.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
23.	GIAU05	Geoportals and Geoservices	(E20) Computing and Control Engineering, Master Academic Studies

	ID	Course name	Study programme name, study type
24.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
25.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
26.	GI534	Service oriented architecture in GIS	(GI0) Geodesy and Geomatics, Master Academic Studies
27.	GI536	Spatial and temporal databases	(GI0) Geodesy and Geomatics, Master Academic Studies
28.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
29.	GI700	Geospatial data visualization	(GI0) Geodesy and Geomatics, Master Academic Studies
30.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
31.	GIAU03	Remote Sensing and Computer Image Processing	(E20) Computing and Control Engineering, Master Academic Studies
32.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies
33.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
34.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
35.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies
36.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
37.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
38.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
39.	SDGI1F	Selected topics in photogrammetry	(GI0) Geodesy and Geomatics, Specialised Academic Studies
40.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies
41.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
42.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies
43.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
44.	DAU011	Selected Chapters in Geographic Information Systems and Technologies	(E20) Computing and Control Engineering, Doctoral Academic Studies
45.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
46.	DGI003	Selected Chapters in Photogrammetry and Remote Sensing	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
47.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
48.	DGI008	Selected Chapters in Laser Scanning	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
49.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
50.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
51.	DGI013	Selected Chapters in Spatial Data Infrastructure and Standardization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
52.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ristić, A., Petrovački, D., Govedarica, M.: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004
2.	Mogin P, Luković I, Govedarica M, "Principi projektovanja baza podataka", II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad,2004, ISBN: 86-80249-81-5, 700 str.
3.	Govedarica Miro, Borisov Mirko, THE ANALYSIS OF DATA QUALITY OF TOPOGRAPHIC MAPS, JOURNAL GEODETSKI VESTNIK (IF 2010 0.215) ISSN 0351-0271

	Representative refferences (minimum 5, not more than 10)
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)
5.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar Metadata Catalogues in Spatial Information Systems (Review) GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
6.	Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov, Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88); 1; (2011) (IF 2010 0.038)
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171
8.	Tosa Ninkov, Miro Govedarica, Milan Trifkovic, One Method of Renewal of Stereographics Survey Data in Coka Municipality Geodetski list : glasilo Hrvatskoga geodetskog društva 66(89) (2012), 4;
9.	Luković I, Mogin P, Govedarica M, Ristić S, "The Structure of A Subschema and Its XML Specification", Journal of Information and Organizational Sciences (JIOS), Varaždin, Croatia, ISSN: 0351-1804, Vol. 26, No. 1-2, 2002, pp. 69-85..
10.	Govedarica M, Miladinović M: Informacioni sistema katastara nepokretnosti – Terrasoft, Geodetska služba, 2002, Vol. XXXI, No. 92, str. 16- 27, ISSN 0350-7971

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	8			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	5	International :	1

Science, arts and professional qualifications

Name and last name:	Grahovac M. Nenad
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	29.12.2004
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Continuum Mechanics
Bachelor's thesis	2002	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics

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

	ID	Course name	Study programme name, study type
1.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
2.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
3.	GG07	Mechanics 1	(G00) Civil Engineering, Undergraduate Academic Studies
4.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
6.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
7.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
8.	M4401	Continuum mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
12.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
14.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
15.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
16.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
17.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
18.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
19.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, Vol. 22, No 4, pp. 1-10, ISSN 0218-1274
2.	Grahovac N., Žigić M.: Modelling of the hamstring muscle group by use of fractional derivatives, Computers and Mathematics with Apllications, 2010, Vol. 59, No 5, pp. 1695-1700, ISSN 0898-1221.
3.	Glavardanov V., Maretić R., Grahovac N.: Buckling of a twisted and compressed rod supported by Cardan joints , European Journal of Mechanics - A: Solids, 2009, Vol. 28, pp. 131-140, ISSN 0997-7538
4.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180
5.	Grahovac N., Žigić M: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008
6.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165-172, ISBN 978-86-909973-0-5, UDK: 531/534(082)
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov`s Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Grbić P. Tatjana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.12.1995
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1993	Faculty of Sciences - Novi Sad	Mathematical Sciences

		List of courses being held by the teacher in the accredited study programmes	
	ID	**Course name**	**Study programme name, study type**
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI303B	Probability and Mathematical Statistics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z203	Statistical Methods	(Z01) Safety at Work, Undergraduate Academic Studies
			(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	IA001	Algebra	(F10) Engineering Animation, Undergraduate Academic Studies
9.	IA002	Mathematical Analysis	(F10) Engineering Animation, Undergraduate Academic Studies
10.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
11.	S01361	Business decision making	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
12.	0M505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies
13.	0ML505	Stochastic Processes	(OM1) Mathematics in Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
14.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	MPK001	Statistical and Numerical Methods	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
17.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies
18.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
23.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
24.	D0M52	Random Sets	(OM1) Mathematics in Engineering, Doctoral Academic Studies
25.	D0M53	Statistical Processing of Fuzzy Data	(OM1) Mathematics in Engineering, Doctoral Academic Studies
26.	DOM30	Probability, Statistics and Theory of Engineering Experiment	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
27.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

| 1. | Ralević, N.M., Nedović, Lj., Grbić, T., :"The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral", Fuzzy sets and systems, 2005, No.155, 89-101 |

	Representative refferences (minimum 5, not more than 10)
2.	Nedović, Lj., Ralević, N. M., Grbić, T.,: " Large deviation principle with generated pseudo measures", Fuzzy sets and systems, 2005, No. 105, 65-76
3.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Pseud-Riemann-Stieltjes integral ", Information Sciences 179, 2009, 2923-2933
4.	M. Štrboja, T. Grbić, I. Štajner-Papuga, G. Grujić, S. Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions, FSS, doi:10.101016/j.fss.2012.07.011
5.	Grbić, T., Pap, E., : "Generalization Of Portamnteau theorem with respect to the pseudo-weak convergence of random closed sets", Theory of Probability and its Applications, 2009, 97-115
6.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292
7.	T. Grbić, S. Medić, I. Štajner-Papuga, T. Došenović, Inequalities of Jensen and Chebyshev type for interval-valued measures based on pseudo-integrals. In: Intelligent Systems: Models and Applications, E. Pap, Ed., Springer-Verlag, pp 23-41, DOI:10.1007/978-3-642-33959-2_2
8.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Riemann-Stieltjes type integral based on generated pseudo-operations", NS J. Mathe., Vol. 36, No. 2, 111-124
9.	Nedović, Lj., Grbić, T., "The pseudo-probability", Journal of Electrical Engineering, 2002, Vol. 53, No. 12/s, 27-30
10.	Mihailović, B., Nedović, T., Grbić, T., "The induced Sugeno integral-based operator w.r.t. bi-fuzzy measures", Journal of Electrical engineering, Vol. 54, No. 12/s, 76-79

Summary data for teacher's scientific or art and professional activity:					
Quotation total :	17				
Total of SCI(SSCI) list papers :	6				
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Herakovič S. Niko
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	University of Ljubljana - Ljubljana 01.01.2007
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2012		Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1995	University of Ljubljana - Ljubljana	Mechanical Engineering
Magister thesis	1991	University of Ljubljana - Ljubljana	Mechanical Engineering
Bachelor's thesis	1988	University of Ljubljana - Ljubljana	Mechanization and Constructional Mechanical Engineering

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.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
4.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	IM1116	Work Study and Ergonomics	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
6.	IMDS56	Product traceability during the lifetime	(I12) Industrial Engineering, Specialised Academic Studies
7.	IMDS57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I12) Industrial Engineering, Specialised Academic Studies
8.	IMDS93	Virtual Enterprises and Collaborative Systems	(I22) Engineering Management, Specialised Academic Studies
9.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
10.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
11.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
12.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
13.	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
14.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies
15.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
16.	IMDR93	Virtual Enterprises and Collaborative Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Simic, M.a, Herakovic, N.a, Juschka, K.b, Pätzold, M.b, Flow characteristic curves for valve simulation: Using the hydraulically axial-notched longitudinal slide valves as example [Durchflusskennlinien für die ventilsimulation - Am Beispiel axialgekerbter hydraulischer Längsschieberventile], Olhydraulik und Pneumatik, Volume 56, Issue 3, March 2012, Pages 27-31, ISSN: 03412660

2. DEBEVEC, Mihael, HERAKOVIČ Niko. Management Of Resources In Small And Medium-Sized Production Enterprises. Iranian Journal of Science and Technology. 51/79. (Article will be published in october 2010 – Enclosure 6 – Certificate of the paper received for publication)

3. HERAKOVIČ, Niko, BEVK, Tomaž. Analysis of the material and the actuator influence on the characteristics of a pneumatic valve = Analiza vpliva materiala in aktuatorjev na lastnosti pnevmatičnega ventila. Mater. tehnol., 2010, letn. 44, št. 1, str. 37-40. [COBISS.SI-ID 11304219]

	Representative refferences (minimum 5, not more than 10)
4.	MERWE, Jacob D. van der, MINARIK, Martin, BEROVIČ, Marin, HERAKOVIČ, Niko. Heat transfer in citric acid production with axial and radial flow impellers. Acta chim. slov.. [Tiskana izd.], 2010, vol. 57, no. 1, str. 150-156. http://acta.chemsoc.si/57/57-1-150.pdf. [COBISS.SI-ID 33809925]
5.	HERAKOVIČ, Niko, ŠIMIC, Marko, TRDIČ, Francelj, SKVARČ, Jure. A machine-vision system for automated quality control of welded rings. Mach. vis. appl., 2010, 15 str., doi: 10.1007/s00138-010-0293-9. ISSN 0932-8092. [COBISS.SI-ID 11512091], [JCR], 126/245
6.	HERAKOVIČ, Niko. Flow-force analysis in a hydraulic sliding-spool valve. Strojarstvo, 2007, letn. 49, št. 3, str. 117-126. [COBISS.SI-ID 10449691]
7.	HERAKOVIČ, Niko. Računalniški in strojni vid v robotizirani montaži = Computer and machine vision in robot-based assembly. Stroj. vestn., 2007, letn. 53, št. 12, str. 858-873. ISSN 0039-2480. [COBISS.SI-ID 10378267], [JCR, WoS], 100/107
8.	HERAKOVIČ, Niko, NOE, Dragica. Analiza delovanja pnevmatičnega ventila s predkrmilnim piezoventilom = Analysis of the operation of pilot-stage piezo-actuator valves. Stroj. vestn., 2006, letn. 52, št. 12, str. 835-851. [COBISS.SI-ID 9821723]
9.	Bogoeva-Gaceva, G., Dimeski, D., Heraković, N. , Effect of sonication applied during production of carbon fiber/epoxy resin composites evaluated by differential scanning calorimetry and thermo-gravimetric analysis, Macedonian Journal of Chemistry and Chemical Engineering, Volume 30, Issue 2, ISSN: 18575552, 2011, Pages 189-196
10.	HERAKOVIČ, Niko, DUHOVNIK, Jože, NOE, Dragica. Sila trenja v pnevmatičnem valju = Friction force in the pneumatic cylinder. Stroj. vestn., okt.-dec. 1992, let. 38, št. 10/12, str. 279-288, ilustr. [COBISS.SI-ID 62843136]

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	11			
Total of SCI(SSCI) list papers :	13			
Current projects :	Domestic :	1	International :	3

Science, arts and professional qualifications

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

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

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

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Jeličić Z., Kulić F., Čongradac V., Kanović Ž., Živković S.,Praktikum Savremena merenja i instrumentacija iz programa Lifelong Learning, INDAS, 2003.
2.	Jeličić Zoran; Petrovački Nebojša; Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, Structural and Multidisciplinary Optimization ISSN: 1615-147X ,Vol. 38, No. 6, Str. 571-581, Springer;
3.	Rapaić Milan; Pisano Alessandro; Jeličić Zoran; Usai Elio; Sliding mode control approaches to the robust regulation of linear multivariable fractional order dynamics - International Journal of Robust and Nonlinear Control Volume 20, Issue 18, pages 2045–2056, December 2010
4.	Rapaić Milan; Jeličić Zoran; Optimal control of a class of fractional heat diffusion systems , Nonlinear Dynamics Volume 62, Numbers 1-2, 39-51, DOI: 10.1007/s11071-010-9697-3 , Springer;
5.	Z. D. Jeličić, T. M. Atanacković, Optimal shape of a vertical rotating column, International Journal of Non-Linear Mechanics, 42, 172 – 179, (2007) .
6.	Zeljko Kanovic, Milan R Rapaic, Zoran D Jelicic, Generalized particle swarm optimization algorithm-Theoretical and empirical analysis with application in fault detection, Applied mathematics and computation, Volume 217, Issue 24, 15 August 2011, Pages 10175–10186.
7.	Jeličić, Z. D. Atanacković, T. M.,On an optimization problem for elastic rods, STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, (2006) vol.32 br.1 str. 59-64
8.	Milena Petković, Milan R Rapaić, Zoran D Jeličić, Alessandro Pisano, On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39, Issue 11, 1 September 2012, Pages 10226–10235.
9.	T. M. Atanacković, Z. D. Jeličić, Optimal shape and deformations of a lifting line with winglets. Bulletin de l"Académie Serbe des Sciences et des Arts. Classe des Sciences techniques 29, 57-79 (2003).
10.	T. M. Atanackovic, Y. Huo, Z. Jelicic, I. Mueller, Phase diagrams modified by interfacial penalties, Theoret. Appl. Mech., Vol.34, No.4, pp. 301-338, Belgrade 2007.

Summary data for teacher's scientific or art and professional activity:			
Quotation total :	105		
Total of SCI(SSCI) list papers :	7		
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Jorgovanović Đ. Nikola
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.11.1999
Scientific or art field:	Automatic Control and System Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1996	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics

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

	ID	Course name	Study programme name, study type
1.	AU42	Technical Equipment for Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	AU47	DSP Applications in Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	AU49	Methods of Medical Image Forming and Analysis	(E20) Computing and Control Engineering, Undergraduate Academic Studies
5.	AUN43	Biomedical Engineering Technologies	(E20) Computing and Control Engineering, Undergraduate Academic Studies
6.	GI006	Satellite Navigation and Navigation Service	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI206	Systems and Signals in Geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	Z411	Fundamentals of Instrumentation and Control	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI112	Biomedical engineering in sport physiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI114	Neural Prosthesis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	BMI120	Equipment and systems for helping the elderly, ill and disabled	(BM0) Biomedical Engineering, Undergraduate Academic Studies
13.	BMI122	Neurorehabilitation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
14.	BMI124	System Modeling and Simulation	(BM0) Biomedical Engineering, Undergraduate Academic Studies
15.	E2314	Microprocessor Based Control Devices	(E20) Computing and Control Engineering, Undergraduate Academic Studies
16.	SEAU05	DSP Applications in Control Systems	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
17.	SEAU08	Microprocessor Based Control Devices	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
18.	AU504	Movement Control	(E20) Computing and Control Engineering, Master Academic Studies

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

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

Representative refferences (minimum 5, not more than 10)

1. Popović Maneski L., Jorgovanović N., Ilić V., Došen S., Keller T., Popović B. M., Popović B. D.: Electrical stimulation for the suppression of pathological tremor, MED BIOL ENG COMPUT, 2011, Vol. 49, No 10, pp. 1187-1193, ISSN 0140-0118

2. Popović-Bijelić A., Bijelić G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation   , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X

3. Malešević N., Popović Maneski L., Ilić V., Jorgovanović N., Bijelić V., Keller T., Popović D.: A multi-pad electrode based functional electrical stimulation system for restoration of grasp, J NEUROENG REHABIL, 2012, Vol. 9, No 66, ISSN 1743-0003

4. Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788

5. Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270

6. Krasnik R., Mikov A., Ilić V., Jorgovanović N., Demeši Drljan Č.: The use of Dynamic Electromyography in Gait Analysis, HealthMED, 2011, Vol. 5, No 4, pp. 888-893, ISSN 1840-2291

7. Jorgovanović N., Došen S., Petrović R.: Novel Electronic Stimulator for Functional Electrical Therapy, Journal of Automatic Control, 2005, Vol. 15, No 5, pp. 27-30, UDK: 621.3-52

8. Jorgovanović N.: Upravljanje funkcionalnom električnom stimulacijom za neurorehabilitaciju pokreta, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2003

9. Jorgovanović N.: NEURON - neuronski računarski sistem, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 1996

10. Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić I., Jorgovanović N., Tepić Ž., Bojanić D., Stanišić D., Ilić V., Pržulj Đ.: Geografski informacioni sistem za potrebe Ministarstva zaštite životne sredine, 2010

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

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

Science, arts and professional qualifications

Name and last name:	Jovanović M. Vukica
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	2010	Purdue University - West Lafayette	Mechatronics, Robotics and Automation and Intelligent Systems
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Bachelor's thesis	2001	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.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1409	Intelligent Systems	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
5.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	II1009	Automatic identification systems	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1029	Computer integrated manufacturing	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	II1045	Systems for measurement, surveillance and control	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	IM1001	Fundamentals of industrial engineering	(I20) Engineering Management, Undergraduate Academic Studies
13.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
14.	IM1035	Identification technologies in enterprises	(I20) Engineering Management, Undergraduate Academic Studies
15.	IM1117	Computer integrated manufacturing (CIM)	(I20) Engineering Management, Undergraduate Academic Studies
16.	IM1719	Implementation of information systems in insurance	(I20) Engineering Management, Undergraduate Academic Studies
17.	HDOK2S	Selected topics in non-industrial robotics	(I12) Industrial Engineering, Specialised Academic Studies
18.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
19.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
20.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies
21.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
22.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies

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

	ID	Course name	Study programme name, study type
23.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
24.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
25.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies
26.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
27.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
28.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
29.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
30.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
31.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
32.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
33.	HDOL13	Motion controla and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
34.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ostojić G., Stankovski S., Tarjan L., Šenk I., Jovanović V.: Development and Implementation of Didactic Sets in Mechatronics and Industrial Engineering Courses, International Journal of Engeneering Education, 2010, Vol. 26, No 1, pp. 2-8, ISSN 0949-149X
2.	Jovanović V., Filipović S., Ostojić G., Stankovski S., Lazarević M.: Analysis of Possible Use of Identification Technologies in Disassembly, Facta universitatis - series: Mechanical Engineering, 2009, Vol. 7, No 1, pp. 81-82, ISSN 0354–2025, UDK: 658.515
3.	Ostojić G., Lazarević M., Jovanović V., Stankovski S., Ćosić I.: Design Process in the Assembly and Disassembly Systems Using RFID Technology , Journal for Fluid Power, Automation and Mechatronics – Ventil, 2006, Vol. 6, pp. 385-389, ISSN 1318-7279
4.	Stankovski S., Ostojić G., Jovanović V., Stevanov B.: Using RFID Technology in Collaborative Design, Facta universitatis - series: Mechanical Engineering, 2006, Vol. 4, No 1, pp. 75-82, ISSN 0354-2025, UDK: 681.518:65.011.56
5.	Ostojić G., Lazarević M., Jovanović V., Stankovski S., Ćosić I.: RFID Tehnology Use In Assembly and Disassembly Processes , Journal for Fluid Power, Automation and Mechatronics – Ventil, 2006, Vol. 6, No 12, pp. 385-389, ISSN 1318-7279, UDK: 62-82 62-85 62-31/33 681.523
6.	Jovanovic, V., DeAgostino, T.H., Thomas, M.B., Trusty II, R.T. Educating engineering students to succeed in a global workplace, 2012, ASEE Annual Conference and Exposition, Conference Proceedings
7.	Ostojić G., Jovanović V., Stankovski S., Lazarević M.: RFID Product and Part Tracking for the Preventive Maintenance, 4. ASME International Manufacturing Science and Engineering Conference (MSEC), West Lafayette: American Society of Mechanical Engineeris (ASME), 4-7 Oktobar, 2009, ISBN 978-0-7918-3859-4
8.	Jovanović V., Savić B.: Determining the Optimal Interval for the Technical Diagnostics of Bearings, 4. ASME International Manufacturing Science and Engineering Conference (MSEC), West Lafayette: American Society of Mechanical Engineers (ASME), 4-7 Oktobar, 2009, ISBN 9780791843611
9.	Jovanović V.: An Overview of Possible Integration of Green Design Principles into Mechatronic Product Development through Product Lifecycle Management, 4. ASME International Manufacturing Science and Engineering Conference (MSEC), West Lafayette: American Society of Mechanical Engineers (ASME), 4-7 Oktobar, 2009, ISBN 9780791843611
10.	Jovanović V., Ncube L.: The Curriculum as a Product: The Application of PLM to the Comprehension Collaborative Design Education Project, 7. Annual ASEE Global Colloquium in Engineering Education, Cape Town: American Society of Engineering Education (ASEE), 1 Januar, 2008

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

Quotation total :	9			
Total of SCI(SSCI) list papers :	1			
Current projects :		Domestic :	1	International :	2

Science, arts and professional qualifications

Name and last name:	Katić M. Marina
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.2001
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Master's thesis	2009	Faculty of Philology - Beograd	English
Magister thesis	2006	Faculty of Philology - Beograd	Engineering Management
Bachelor's thesis	1987	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies
			(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(F00) Graphic Engineering and Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies

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

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

	ID	Course name	Study programme name, study type
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies

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

	Representative refferences (minimum 5, not more than 10)
1.	Marina Katić, Kostadin Pušara, "Standardization of E-Commerce Terminology", Annals of the Faculty of Engineering Hunedoara, Vol.III, Part 2, 2005, ISSN 1584-2665, Edition Mirton, Timisoara (Romania), pp.31-36.
2.	M.Katić, "O tehnikama prevođenja nekih engleskih termina energetske elektronike", 11th International Symposium on Power Electronics – Ee 2001, Novi Sad, Oct.-Nov.2001, pp.154-157.
3.	M.Katić, "Terminology of E-Commerce", 7th International Symposium on Interdisciplinary Regional Research – ISIRR 2003, Hunedoara (Romania), Sept. 2003, CD-ROM – Paper 0104.
4.	M.Katić, "Key Terms of Business Environment", PSU-UNS Int. Conference Energy and Environment, Hat Yai (Thailand), Dec. 2003, .
5.	Marina Katić, Kostadin Pušara, "Need for E-Commerce Term Standardization and Harmonization", Western Business & Management Conference 2004, Las Vegas (USA), Oct.2004, CD ROM.
6.	Marina Katić, Kostadin Pušara, "Standardization of E-Commerce Terminology", VIII International Symposium on Interdisciplinary Regional Research - ISSIR 2005, Szeged (Hungary), 19-21. 04. 2005., University of Szeged, CD ROM.
7.	M.Katić, "Deregulacija u elektroprivredi sa aspekta tumačenja i prevođenja engleskih termina na srpski jezik", III Jugoslovensko savetovanje o elektrodistributivnim mrežama, JUKO-CIRED, Vrnjačka Banja, Okt. 2002, Sveska 4, P-7.04, pp.153-158, (knjiga i CD ROM).
8.	M.Katić, "Engleski jezik u službi međunarodnog menadžmenta", XII međunarodna konferencija Industrijski sistemi – IS 2002, Vrnjačka Banja, Nov. 2002, pp.146-151
9.	M.Katić, "Anglicizmi u jeziku tehnike", XLVII Konferencija ETRAN, Herceg Novi, Jun 2003, CD-ROM i knjiga, Sveska 3, pp. 241-244.
10.	M.Katić, K.Pušara, „Zašto je potrebna standardizacija termina elektronske trgovine", XLIX Konferencija za ETRAN, Budva, 05.-10. 06. 2005., Zbornik radova, CD-ROM i knjiga, Sveska 3, pp.238-241.

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

Science, arts and professional qualifications

Name and last name:	Konjović D. Zora
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.10.1981
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Magister thesis	1985	Faculty of Technical Sciences - Novi Sad	Robotics and Flexible Automation
Bachelor's thesis	1973	Faculty of Sciences - Novi Sad	Mathematics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E231	Numerical Algorithms and Numerical Software	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E233	Internet Networks	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E236A	Computational Intelligence Fundamentals	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E2K42	Knowledge Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	BMI101	Introduction to Medical Informatics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SES301	IT Law	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

	ID	Course name	Study programme name, study type
9.	E2513	Semantic Web	(E20) Computing and Control Engineering, Master Academic Studies
			(PM0) Production Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	E2514	Biologicaly inspired computing	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies
			(IB0) Engineering Management - MBA, Specialised Professional Studies
12.	E2525	Contemporary educational technologies and standards	(E20) Computing and Control Engineering, Master Academic Studies
			(SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies
			(H00) Mechatronics, Doctoral Academic Studies
15.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
17.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies
19.	DRNI17	Selected Topics in ICT enhanced learning	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Obradovic Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (2011). The maximal distance between imprecise point objects, Fuzzy Sets and Systems, Vol. 170 no. 1, pp. 76-94

2. Obradovic Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Linear Fuzzy Space Based Road Lane Detection. Knowledge-Based Systems (rad objavljen u elektronskom obliku http://www.sciencedirect.com/science/article/pii/S0950705112000032)

3. Kovačević Aleksandar, Konjović Zora, Milosavljević Branko, Nenadić Goran (2012). Mining methodologies from NLP publications: A case study in automatic terminology recognition, Computer Speech And Language, Vol. 26 no. 2, pp. 105-126

4. Gostojić Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (2012). Context-sensitive Access Control Model for Government Services. Journal of Organizational Computing and Electronic Commerce, Vol. 22 no. 2, pp. 184-213

5. Sladić Goran, Milosavljević Branko, Surla Dušan, Konjović Zora (2012). Flexible Access Control Framework for MARC Records. Electronic Library (ISSN: 0264-0473), 30:5, pp. 623-652

6. Savić Goran, Segedinac Milan, Konjović, Zora (2012).Automatic Generation of E-Courses Based on Explicit Representation of Instructional Design. Computer Science and Information Systems. Vol. 9 no. 2, pp. 839 – 869.

7. Sladić Goran, Milosavljević Branko, Konjović Zora, Vidaković Milan (2011). Access Control Framework for XML Document Collections. Computer Science and Information Systems / ComSIS (ISSN: 1820-0214), 8:3, pp. 591-609

8. Ivanovic Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compatible data model based on MARC 21 format, Electronic Library, Vol. 29 no. 1, pp. 52-70

9. Kovacevic Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Konjovic Zora, Surla Dusan (2011). Automatic extraction of metadata from scientific publications for CRIS systems, Program-Electronic Library and Information Systems, Vol. 45 no. 4, pp. 376-396

Representative refferences (minimum 5, not more than 10)				
10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Ković R. Vanja
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Philosophy - Beograd
	01.10.2012
Scientific or art field:	Psychological Science

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Philosophy - Beograd	Psychological Science
PhD thesis	2012	University of Oxford - Oxford	Psychological Science
Magister thesis	2004	University of Oxford - Oxford	Psychological Science
Bachelor's thesis	2002	Faculty of Philosophy - Novi Sad	Psychological Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BMI115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)
1. Kovic, V., Plunkett, K., Westermann, G. (2010). The shape of words in the brain. Cognition, Vol. 114, 1, 19-28.
2. *****Autori: Ković, V. Plunkett, K. Westermann, G. Naziv: If you haven't got a head, get a label: labels and visual features act together in category formation (submitted) Naziv časopisa: Psychological Science
3. *****Autori: Westerman, G., Kovic, V., Ruh, N. Naziv: Processing English past tense – easiness, but not regularity reflected in P300 effect! (in preparation) Naziv časopisa:
4. Kovic, V., Plunkett, K., Westermann, G. (2009). Eye-tracking study of inanimate objects. Psihologija, Vol. 42, 4.
5. Kovic, V., Plunkett, K., Westermann, G. (2009). Eye-tracking study of animate objects. Psihologija, Vol. 42, 3.
6. Kovic, V., Plunkett, K., Westermann, G. (2009). Shared and/or separate representations of animate/inanimate categories – an ERP study. Psihologija, Vol. 42, 1. (3-29).
7. Kovic, V., Westermann, G., Plunkett, K. (2008). Implicit vs. explicit learning in German noun plurals. Psihologija, Vol. 41, 4. (3-32)
8. Westermann, G., Kovic, V. and Ruh, N. (2008). English past tense inflection: regular vs. irregular or easy vs. hard? In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.) Proceedings of the 30th Annual Conference of the Cognitive Science Society. Washington, DC: Cognitive Science Society.
9. *****Autori: Vucetic, V., Plunkett, K., Westermann, G. Naziv: Using eye-tracking to investigate lexical processing mechanisms in adults Naziv skupa: The Scandinavian Workshop on Applied Eye-Tracking
10. *****Autori: Vucetic, V. Naziv: PTSD symptoms in children present 10 months after a traumatic event Naziv skupa: XVI European Federation of Psychology Students Associations

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:	Kozak V. Dražen
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2012		Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	2001	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Magister thesis	1995	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Bachelor's thesis	1991	Mechanical Engineering Faculty - Slavonski Brod - Slavonski Brod	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
2.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
3.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1501A	Systems for Survailance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
6.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
7.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
9.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
10.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
11.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies
12.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
13.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
15.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
16.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
17.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
18.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
19.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
20.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
21.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
22.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
23.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
24.	HDOL13	Motion controla and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Kozak, D., Gubeljak, N., Konjatić, P., Sertić, J. Yield load solutions of heterogeneous welded joints (2009) International Journal of Pressure Vessels and Piping, 86 (12), pp. 807-812.

	Representative refferences (minimum 5, not more than 10)
2.	Hloch, S., Valíček, J., Kozak, D., Tozan, H., Chattopadhyaya, S., Adamčík, P. Analysis of acoustic emission emerging during hydroabrasive cutting and options for indirect quality control (2012) International Journal of Advanced Manufacturing Technology, pp. 1-14.
3.	Valíček, J., Hloch, S., Kozak, D. Surface geometric parameters proposal for the advanced control of abrasive waterjet technology (2009) International Journal of Advanced Manufacturing Technology, 41 (3-4), pp. 323-328.
4.	Kladaric, I., Kozak, D., Krumes, D. The effect of aging parameters on properties of maraging steel (2009) Materials and Manufacturing Processes, 24 (7-8), pp. 747-749.
5.	Valíček, J., Čep, R., Rokosz, K., Łukianowicz, C., Kozak, D., Zeleåák, M., Koštial, P., Hloch, S., Harničárová, M., Hlaváček, P., Haluzíková, B. New way to take control of a structural grain size in the formation of nanomaterials by extrusion (2012) Materialwissenschaft und Werkstofftechnik, 43 (5), pp. 405-411.
6.	Brillová, K., Ohlídal, M., Valíček, J., Kozak, D., Hloch, S., Zeleňák, M., Harničárová, M., Hlaváček, P. Spectral analysis of metallic surfaces topography generated by abrasive waterjet (2012) Tehnicki Vjesnik, 19 (1), pp. 1-9.
7.	Neslušan, M., Mrkvica, I., Čep, R., Kozak, D., Konderla, R. Deformations after heat treatment and their influence on cutting process (2011) Tehnicki Vjesnik, 18 (4), pp. 601-608.
8.	Younise, B., Rakin, M., Medjo, B., Gubeljak, N., Kozak, D., Sedmak, A. Numerical analysis of constraint effect on ductile tearing in strength mismatched welded CCT specimens using micromechanical approach (2011) Tehnicki Vjesnik, 18 (3), pp. 333-340.
9.	Vojvodić, D., Kozak, D., Sertić, J., Mehulić, K., Celebic, A., Komar, D. Influence of depth alignment of E-glass fiber reinforcements on dental base polymer flexural strength (2011) Materialpruefung/Materials Testing, 53 (9), pp. 528-535.
10.	Kozak, D., Ivandić, Z., Kontajić, P. Determination of the critical pressure for a hot-water pipe with a corrosion defect (2010) Materiali in Tehnologije, 44 (6), pp. 385-390.
	Summary data for teacher's scientific or art and professional activity:

Quotation total :	39		
Total of SCI(SSCI) list papers :	36		
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

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

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

Representative refferences (minimum 5, not more than 10)

1.	Dragan Kukolj, Vesna Bengin, Filip Kulić: Osnovi klasične teorije automatskog upravljanja kroz rešene probleme, Sombor, Somel, 1995. 241str., UDK: 681.5(075.8),
2.	Dragan Kukolj, Filip Kulić: Projektovanje sistema automatskog upravljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka, 1995. 232str., UDK: 681.5(075.8),
3.	D.Kukolj, F.Kulić, E.Levi: Design Of The Speed Controller For Sensorless Electric Drives Based On AI Techniques: A Comparative Study, Artificial Intelligence in Engineering, 2000, Vol. 14, str. 165- 174
4.	D.Kukolj, S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, Wide Range Fuzzy Logic Controller, Fuzzy Sets and Systems, 2001, Vol. 120, No. 1, str. 17- 34
5.	D.Kukolj, F.Kulić, D.Popović, Z.Gorečan: Determining Topological Changes and Critical Load Levels of a Power System by Means of Artificial Neural Network, Electric Machines and Power Systems, 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.
6.	D.Kukolj, D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, European Transactions on Electrical Power (ETEP), 1998, Vol. 8, No. 3, str. 207- 212, ISSN 1430-144X.
7.	D.Popović, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Stability Margins Using Artificial Neural Networks with a Reduced Input Set, IEE Proc. -Gener. Transm. Distrib, 1998, Vol. 145, No. 4, str. 355- 362, ISSN 1350-2360.

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

Science, arts and professional qualifications

Name and last name:		Ličen S. Branislava	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		07.04.2005	
Scientific or art field:		English	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	2009	Faculty of Philosophy - Novi Sad	Philology

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	E21I0	Izborni strani jezik 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
6.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

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

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

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

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

	ID	Course name	Study programme name, study type
27.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
28.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
30.	ISIT07	English Language 2	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
31.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
33.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
35.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
36.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	ETI10	English Language-Lower	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
38.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
39.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
40.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
41.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
42.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
43.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
44.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
45.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	''Formal and Aesthetic Aspects of Nadine Gordimer's Short Story'', Romanian Journal of English Studies, University of the West Timisoara, br. 7, 2010., str.191-198.
2.	''Summarization Skills of Engineering Students' Reading in a Second Language'', Jezik struke, izazovi i perspektive, Univerzitet u Beogradu, 2011., str. 291-299.
3.	''On Race, Ethnicity and Gender in Nadine Gordimer's 'Jump and Other Stories'', Selected Papers in Literature and Culture from the 9th HUSSE Conference, Pecs, 2010., str. 285-290.
4.	''Living in the Interregnum: Nadine Gordimer's 'Conservationist', 'Burger's Daughter' and 'July's People''', B.A.S. Conference on British and American Studies, University of the West Timisoara, br.XXI, maj 2011., str. 28.
5.	''Preispitivanje istorijskog konteksta u Barnsovom romanu Floberov papagaj'', Sveske, br.100, Pančevo, jun 2011., str. 69-77.
6.	''Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja'', Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str.445-454.
7.	''Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu'', Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str. 170-176.
8.	Zajednica i pojedinac u delima Toni Morison u romanima Najplavlje oko, Sula, Voljena i Katreno luče, 2009.

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

Science, arts and professional qualifications

Name and last name:	Lončar-Turukalo G. Tatjana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.05.2006
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	BMI105	Statistical basics, processing and modelling of biomedical signals	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI123	Advanced biomedical signal analysis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EK202	Communication networks - introduction	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK321	IP technology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK450	Development Tools in Telecommunications and Signal Processing 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI25	Pattern recognition	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI37	Digital Image Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	SZP01	Selected topics in Information technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
10.	BMIM2B	Biomedical statistics	(BM0) Biomedical Engineering, Master Academic Studies
11.	BMIM2C	Multivariable analysis and complexity of physiological processes	(BM0) Biomedical Engineering, Master Academic Studies
12.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Lončar-Turukalo T., Japunzic-Zigon N., Bajić D.: Temporal Sequence Parameters in Isodistributional Surrogate Data: Model and Exact Expressions, IEEE Transactions of Biomedical Engineering, 2011, Vol. 58, No 1, pp. 16-24, ISSN 0018-9294

2. Bošković A., Lončar-Turukalo T., Sarenac O., Japundzic-Zigon N., Bajić D.: Unbiased entropy estimates in stress: a parameter study, COMPUT BIOL MED, 2012, ISSN 0010-4825

3. Dragana Bajic, Tatjana Loncar Turukalo, Sonja Stojicic, Olivera Sarenac, Tijana Bojic, David Murphy, Julian Paton,; Japundzic Zigon, Nina: "Temporal Analysis of the Spontaneous Baroreceptor Reflex During Mild Emotional Stress"; Stress 2009;00;1-13; ISSN 1025-3890 print/ISSN 1607-8888 online

4. Dragana Bajić, Sonja Stojičić, Olivera Šarenac, Tatjana Lončar-Turukalo, Tijana Bojić, Nina Japundžić-Žigon: Temporal Analysis of Spontaneous Baroreceptor Reflex during Emotional Stress in Freely Moving Rats, 5th Conference of the European Study Group of Cardiovascular Oscillations, ESCGO, April, 2008, str. 012-5- 012-8.

5. Tatjana Lončar-Turukalo, Dragana Bajić, Nina Japundžić Žigon: Cardiovascular Response to Acute Stress in Freely Moving Rats: Time-Frequency Analysis, 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, august, 2008, pp. 2614- 2617.

6. Olivera Šarenac, Srdja Drakulić, Maja Lozić, Tatjana Lončar Turukalo, Dragana Bajić, Nina Japundžić Žigon: Temporal Analysis of the Spontaneous Baroreceptor Reflex during Acute and Chronic Shaker Stress in Freely Moving Rats, Computers in Cardiology Conference, 14-17 september, 2008, pp. 813- 816.

7. Damir Varga, Tatjana Lončar-Turukalo, Dragana Bajić, Sanja Milutinović, Nina Japundžić-Žigon: Joint Symbolic Dynamics of Cardiovascular Time Series of Rats, 11th Mediterranean Conference on Medical and Biological Engineering and Computing MEDICON, 26-30 June, 2007.

	Representative refferences (minimum 5, not more than 10)
8.	Tatjana Lončar-Turukalo, Snežana Milosavljević, Olivera Šarenac, Nina Japundžić Žigon, Dragana Bajić: Entropy and Gaussianity - Measures of Deterministic Dynamics of Heart Rate and Blood Pressure Signals of Rats , Acta Polytechnica Hungarica, Journal of Applied Sciences, 2008, Vol. 5, No. 1, pp. 121- 133, ISSN 1785-8860.
9.	Dragana Bajić, Tatjana Lončar-Turukalo, Olijandra Šibarević, "On Direct Sequential Analysis of HRV Signals", Archive of Oncology, Vol.13, No.1, January 2005
10.	Olivera Šarenac, Srđa Drakulić, Maja Lozić, Tanja Lončar-Turukalo, Dragana Bajić, Julian FR Paton, David Murphy, Nina Japundž: Time and frequency domain analysis of the cardiovascular response to stress in conscious rats, Acta Cardiologica, 2008, Vol. 63, No. 3.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	28			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	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

	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
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:	Lužanin B. Ognjan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	09.11.1992
Scientific or art field:	Plastic Deformation Technology, Rapid Prototyping, Virtual

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design

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

	ID	Course name	Study programme name, study type
1.	IA016	Introduction to Virtual Reality Technology	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P2411	Virtual Production in Technologies of Plastic Deforming	(P00) Production Engineering, Undergraduate Academic Studies
3.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies
5.	F504I0	3D Printing	(F00) Graphic Engineering and Design, Master Academic Studies
6.	NIT01	Innovative Product Development	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
7.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
8.	SM1061	Iintegrated VR development environments for engineering applications	(PM0) Production Engineering, Master Academic Studies
9.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
10.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Tadić B., Todorović P., Lužanin O., Miljanić D., Jeremić B., Bogdanović B., Vukelić Đ.: Using specially designed high-stiffness burnishing tool to achieve high-quality surface finish, DOI: 10.1007/s00170-012-4508-2, International Journal of Advanced Manufacturing Technology, 2012, ISSN 0268-3768
2.	Plančak M., Hartley P., Esssa K., Vilotić D., Movrin D., Lužanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International, 2012, pp. 1247-1250, ISSN 978-3-514-00754-3
3.	Ostojić G., Tadić B., Lužanin O., Stankovski S., Vukelić Đ., Budak I., Miladinović Lj.: An integral system for automated cutting tool selection, Scientific Research and Essays, 2011, Vol. 6, No 15, pp. 3240-3251, ISSN 1992-2248
4.	Vukelić Đ., Tadić B., Lužanin O., Budak I., Križan P., Hodolič J.: A rule-based system for fixture design, Scientific Research and Essays, 2011, Vol. 6, No 27, pp. 5787-5802, ISSN 1992-2248
5.	Lužanin O., Plančak M.: Enhancing Gesture Dictionary of a Commercial Data Glove Using Complex Static Gestures and an MLP Ensemble , Strojniski vestnik - Journal of Mechanical Engineering, 2009, Vol. 55, No 4, pp. 230-236, ISSN 0039-2480
6.	Vukelić Đ., Tadić B., Jocanović M., Lužanin O., Simeunović N.: A System for Computer-Aided Selection of Cutting Tools, Acta Technica Corviniensis, 2011, Vol. 4, No 4, pp. 89-92, ISSN 2067-3809
7.	Lužanin O., Plančak M.: Virtual reality technologies in virtual manufacturing-notes on current trends and applications , Journal for technology of Plasticity, 2008, Vol. 33, No 1-2, pp. 103-111.
8.	Vilotić D., Plančak M., Kuzman K., Milutinović M., Movrin D., Skakun P., Lužanin O.: Application of net shape and near-net shape forming technologies in manufacture of roller bearing components and cardan shafts , Journal for technology of Plasticity, 2007, Vol. 32, No 1-2, pp. 87-104.
9.	Milutinović M., Vilotić D., Plančak M., Trbojević I., Čupković Đ., Lužanin O.: Hot ring rolling in bearing production , Journal for Technology of Plasticity, 2005, Vol. 30, No 1-2, pp. 61-73, ISSN 0354-3870.
10.	Novaković D., Lužanin O., Zeljković Ž., Hodolič J.: Enhancement of Tribological Characteristics of Gears by Application of Software Package for Gear Trains Design, Journals Tribology in industry, 1998, Vol. 20, No 2, pp. 47-51, ISSN 0351-1642.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Maksimović M. Rado
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	12.06.1979
Scientific or art field:	Production Systems, Organization and Management

Academic carieer	Year	Institution	Field
Academic title election:	2008	University of Novi Sad - Novi Sad	Production Systems, Organization and Management
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	1989	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Engineering Management

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

	ID	Course name	Study programme name, study type
1.	Z421	Operacioni menadžment(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
2.	BM118C	Medical management	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	IM1021	Developmental Processes in Company	(I20) Engineering Management, Undergraduate Academic Studies
4.	IM1031	Enterprise's organization	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
5.	IM1113	Improvement of products and processes	(I20) Engineering Management, Undergraduate Academic Studies
6.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
7.	IMDS60	Enterprise Complexity and Flexibility	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
8.	IMDS63	Intelligent Organisation	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
9.	IMDS65	Entrepreneurship and Organizational Development	(I22) Engineering Management, Specialised Academic Studies
10.	I901	Manufacturing performace measurement	(I10) Industrial Engineering, Master Academic Studies
11.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies
			(PM0) Production Engineering, Master Academic Studies
12.	IIDS10	Effective technological and production structures	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
13.	IIDS19	Organizational structures	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
14.	IIDS5	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies
15.	IIDS9	Effective Production and Service Systems	(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
16.	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
17.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies
			(I20) Engineering Management, Master Academic Studies

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

	ID	Course name	Study programme name, study type
18.	IM2113	Design of enterprise's organization	(I10) Industrial Engineering, Master Academic Studies
			(I20) Engineering Management, Master Academic Studies
19.	IM2114	Enterprise's performances	(I20) Engineering Management, Master Academic Studies
20.	IM2119	Layout and location of the enterprise	(I20) Engineering Management, Master Academic Studies
21.	IM2321	Management of project oriented enterprises	(I20) Engineering Management, Master Academic Studies
22.	IMDS69	Selected chapters in enterprise's design, organization and control	(I22) Engineering Management, Specialised Academic Studies
23.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR12	Organizational structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	IMDR31	Effective Production and Service Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
26.	IMDR60	Enterprise Complexity and Flexibility	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27.	IMDR63	Intelligent Organisation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
28.	IMDR65	Entrepreneurship and Organizational Development	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
29.	IMDR5	Selected chapters in enterprise's design, organization and control	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
30.	IMDR69	Selected chapters of enterprise's management and control	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
31.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
32.	ZRD27A	Operations management in the security and occupational safety	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Njegomir V., Maksimović R.: The overview of some basic issues in insurance matket - the case of Serbian insurance risk transfer market, Transformations in Business & Economics (TIBE), 2012, Vol. 11, No 2, pp. 51-69, ISSN 1648-4460

2. Marković V., Maksimović R.: A contribution to continual software service improvement based on the six-step service improvement method, INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING, 2012, Vol. 22, No 4, pp. 549-569, ISSN 0218-1940

3. Zelenović, D., Ćosić, I., Maksimović, R.: IISE - APPROACH IN DEVELOPMENT OF EFFECTIVE MANUFACTURING SYSTEMS - COMPANIES, U: Suresh, N.C, Kay, M.J.: GROUP TECHNOLOGY & CELLULAR MANAGEMENT - A state of-The-Art Synthesis of Research & Practice, New York: Cluwer Pres, Buffalo - New York, 1998, ISBN 0-7923-8080-0. pp. 517- 536.

4. Maksimović, R, Lalić, B: Flexibility and Complexity of Effective Enterprises, Strojniški vestnik - Journal of mechanical engineering, 2008, Vol. 54, No. 11, pp. 768- 782, UDK: 658.51, ISSN 0039-2480

5. Maksimović, R., Stankovski, S., Ostojić, G., Petrović, S, Ratković, Ž.: Complexity and Flexibility of Production Structures, Journal of Scientific and Industrial Research, 2009, 101-105, ISSN 0022-4456

6. Borocki J., Ćosić I., Lalić B., Maksimović R.: Analysis of Company Development Factors in Manufacturing and Service Company: a Strategic Approach, Strojniski vestnik = Journal of Mechanical Engineering, 2011, Vol. 57, No 1, pp. 55-68, ISSN 0039-2480, UDK: DOI:10.5545/sv-jme.2010.030

7. Marović, B., Njegomir, V., Maksimović, R.: The implications of the financial crisis to the insurance industry - Global and regional perspective, Economic research, 2010, Vol. 23, No. 2, 127-141, ISSN 1331-677X.

8. Obadović M., Maksimović R., Obadović M.: The estimate of the market risk by the application of historical simulation method in the period of growth of stock exchange indices on Belgrade stock exchange, Economic research, 2010, Vol. 23, No 3, pp. 82-95, ISSN 1331-677X, UDK: UDK 330.322:336.76

9. Djuric, Ž., Maksimović, R., Adamović, Ž.: Key performance indicators in a joint-stock company, AFRICAN JOURNAL OF BUSINESS MANAGEMENT, 4 (6): 890-902, 2010

10. Radišić, O., Radišić, M., Maksimović, R. et al. 2012. Industrial Cogeneration Appliance--An Example of a Drilling Rig. J Can Pet Technol 51 (6): 487-492. SPE-157689-PA. http://dx.doi.org/10.2118/157689-PA.

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

Quotation total :	8			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Malbaša D. Veljko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.1979
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Electronics
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E136	Introduction to Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergradute Academic Studies
2.	E136d	Introduction to Digital and Microcomputer Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E222A	Electronics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
4.	EM401	Real-Time Microcomputer Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BMI103	Microprocessor Systems in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EM300A	Microprocessor Electronics	(H00) Mechatronics, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EM305A	Digital Microcontrollers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EM404A	Computer Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI16	Microcomputer Electronics	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI24	Real Time Embedded Systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	DE100S	Selected Topics in Formal Methods of Harware Desing and Verification	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE401S	Design of Application Specific Integrated Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	SI012	Microprocessor Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	SI025	Selected Topics in Computer Electronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	EM508	Design and Development of Embedded Software	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	DE100	Selected Chapters in Formal Methods for Hardware Design and Verification	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
17.	DE401	ASIC Design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

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

Science, arts and professional qualifications

Name and last name:	Maretić B. Ratko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	18.05.1993
Scientific or art field:	Deformable Body Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	1993	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics

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

	ID	Course name	Study programme name, study type
1.	A237	Material Resistance	(A00) Architecture, Undergraduate Academic Studies
2.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
3.	M4305	Thermomechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	M44051	Theory of Plates and Shells	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	M4501	Industrial Design	(M40) Technical Mechanics and Technical Design, Master Academic Studies
10.	M4505	Modelling of non-linear systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies
11.	DM403	Mathematical Rod Theory	(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	R. Maretic, V. Glavardanov and V. Milosevic-Mitic: Transverse vibrations and stability of a heavy and heated vertical circular plate. International Journal of Structural Stability and Dynamics, 2010, 10(5), 1111-1121.
2.	V. Glavardanov, R. Maretic and N. Grahovac: Buckling of a twisted and compressed rod supported by Cardan joints. European Journal of Mechanics A/Solids, 2009, 28, 131- 140.
3.	V. Glavardanov and R. Maretic: Stability of a twisted and compressed clamped rod. Acta Mechanica, 2009, 202, 17-33.
4.	R. Maretic and V. Glavardanov: Impact of mounting with an overlap on vibration and stability of a rotating annular plate. Journal of Sound and Vibration, 2008, 313, 308- 324.

	Representative refferences (minimum 5, not more than 10)
5.	R. Maretic, V. Glavardanov and D. Radomirovic: Asymmetric vibrations and stability of a rotating annular plate loaded by a torque. Meccanica, 2007, 42, 537- 546.
6.	R. Maretic, 2005, "Transverse vibration and stability of an eccentric rotating circular plate", Journal of Sound and Vibration 280, 467-478.
7.	R. B. Maretic, V. B. Glavardanov, 2004, "Stability of a Rotating Heated Circular Plate with Elastic Support", Journal of Applied Mechanics, Transactions of the ASME, 71, 897-899.
8.	R. B. Maretic and T. M. Atanackovic, 2001, Journal of Engineering Mechanics Vol 127, 242-247, Buckling of Column with Base Attached to Elastic Half-Space.
9.	L. Cveticanin, R. Maretic, 2000., Mechanism and Machine Theory 35, 1391-1411. Dynamic analysis of a cutting mechanism.
10.	T.M. Atanackovic, R.B. Maretic, J.M. Milidragovic, 1999, Archive of Applied Mechanics 69, 94-104, On the stability of an elastic column positioned on an elastic half space.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	25			
Total of SCI(SSCI) list papers :	14			
Current projects :	Domestic :	1	International :	0

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:	Mihailović P. Biljana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.03.1999
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2009	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2003	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	EOS07	Mathematics 2	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
7.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

	ID	Course name	Study programme name, study type
11.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	I004/S	Statistical Quantitative Methods	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
14.	OIR009	Primenjena aktuarska matematika	(I20) Engineering Management, Specialised Professional Studies
15.	ZR503	Statistical Advanced Models	(Z01) Safety at Work, Master Academic Studies
16.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M49	Aggregation Functions	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M50	Fuzzy Measures and Integrals	(OM1) Mathematics in Engineering, Doctoral Academic Studies
20.	D0M51	Large Deviations Principles	(OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. E. Pap, B. Mihailović: A representatation of a comonotone-v-additive and monotone functional by two Sugeno integrals, Fuzzy Sets and Systems 155, (2005) 77-88

2. B. Mihailović, E. Pap: Sugeno integral based on absolutely monotone real set functions, Fuzzy Sets and Systems, Vol 161, Issue 22, (2010) 2857-2869

3. B. Mihailović, E. Pap: Asymmetric integral as a limit of generated Choquet integrals based on absolutely monotone real set functions, Fuzzy Sets and Systems 181, (2011) 39-49.

4. B. Mihailović, E. Pap: Asymmetric general Choquet integrals, Acta Polytechnica Hungarica, Volume 6, Issue Number 1, (2009) 161-173.

5. Kalina M., Manzi M., Mihailović B.: Choquet integrals and T-supermodularity, E. Pap (Ed.): Intelligent Systems: Models and Applications, TIEI 3, DOI: 10.1007/978-3-642-33959-2 4 c Springer-Verlag Berlin Heidelberg , (2013) 61-75.

Datum: 18.12.2012

	Representative refferences (minimum 5, not more than 10)
6.	B. Mihailović, Lj. Nedović, T. Grbić : The induced Sugeno integral-based operator w.r.t bi-fuzzy measures, Journal of Electrical Engineering, Vol.54, No. 12/s, (2003) 76-79.
7.	B. Mihailović, E. Pap: Non-monotonic set functions and general fuzzy integrals, Proceedings of SISY 2008, Subotica, (2008) 371-374.
8.	B. Mihailović: On the class of symmetric S-separable aggregation functions Proceedings of AGOP 2007, Ghent, Belgium, (2007) 187-191.
9.	B. Mihailović, E. Pap: Decomposable signed fuzzy measures, Proceedings of EUSFLAT 2007, Ostrava, Czech Republic, (2007) 265-269.
10.	B. Mihailović, M. Manzi: On the asymmetric Shilket-like integral, Proceedings of AGOP2011, Benevento, Italy, (2011) 73-77.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	10			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Mihajlović R. Dragan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	24.09.1990
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1988	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Bachelor's thesis	1973	Faculty of Electrical Engineering - Sarajevo	Applied Computer Science and Informatics
Magister thesis	1070	Faculty of Electrical Engineering - Sarajevo	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU54	Geoinformation Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI205	Information Systems and Databases	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	RI43A	Databases 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
6.	RI43B	Databases 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
7.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	0RI43B	Databases 2	(ES0) Power Software Engineering, Undergraduate Academic Studies
9.	BM118E	Databases	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
11.	EE417A	Databases	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

	ID	Course name	Study programme name, study type
12.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Mihajlović D.,Informacioni sistemi i projektovanje baza podataka, FTN Novi Sad, 1998
2.	Mihajlović D, Obradović D,Jedan algoritam sažimanja srpskohrvatskih reči, Informatika br 4, pp45-47, 1982
3.	Mihajlović D, Obradović D, An evelution of textual documents indexing methods, Yujor, 1992, pp107-112.
4.	Mihajlović D i ostali, Softversko rešenje za farmaceutski informacioni sistem, Diskobolos 97.
5.	Mihajlović D, Kecman Ž, Farmaceutski informacioni sistem, I kongres farmaceuta Jugoslavije, Vrnjačka Banja, 1994
6.	Mihajlović D, Izbor parova leksičkih jedinica iz poznatog rečnika za automatizovano postavljanje relacija u tezaurusu
7.	Mihajlović D, Odredjivanje vrsta reči iz srpskohrvatskog jezika primenom računara, Informatica, br 1, pp52-54, 1988
8.	Perišić B, Obradović D, Mihajlović D, Standardizacija metodologije projektovanja informacionih sistema software-inženjerski aspekti, Standardizacija i kvalitet u informacionim tehnologijama, beograd 1995.
9.	Mihajlović D, Nićin V, Prilog razvoju automastke obrade informacija u INDOK-delatnosti u organima uprave, Dani informatike 80, pp73-83, Novi Sad
10.	Obradović D, Perišić B, Mihajlović D, Konjović Z, Stanje i trendovi u projektovanju informacionih sistema, IPME, Beograd, 1992

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

Science, arts and professional qualifications

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

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

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

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

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

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

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

Science, arts and professional qualifications

Name and last name:	Mirović Đ. Ivana
Academic title:	Lecturer
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.04.1990
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	English
Bachelor's thesis	1984	Faculty of Philosophy - Novi Sad	English

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
7.	EJ02L	English Language – Pre-Intermediate	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
8.	EJ02Z	English Language – Pre-Intermediate	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	EJ03Z	English Language - Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
10.	EJ04L	English Language – Upper Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
11.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies

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

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

	List of courses being held by the teacher in the accredited study programmes		
	ID	**Course name**	**Study programme name, study type**
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
35.	ETI05	English language - Elementary	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
37.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
38.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
39.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
40.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
41.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Prevod monografije: Nenad Teofanov: Ultramodulation Spaces and Pseudodifferential Operators, Zadužbina Andrejević
2.	Prevod publikacije o Fakultetu tehničkih nauka, Faculty of Technical Sciences, 2004
3.	Vesna Bogdanović i Ivana Mirović: Engleski jezik 1 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2007
4.	Ivana Mirović i Vesna Bogranović: Engleski jezik 2 za grafičko inženjerstvo i dizajn, FTN izdavaštvo, Novi Sad, 2011
5.	I. Mirović, V. Bogdanović, B. Ličen: Istorijat nastave stručnog engleskog jezika na FTN u Novom Sadu. međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008
6.	V. Bogdanović, I. Mirović, B. Ličen: Kreiranje udžbenika za engleski jezik za studente različitog predznanja, međunarodna konferencija Jezik struke, teorija i praksa, Beograd, 2008
7.	I. Mirović, B. Ličen, V. Bogdanović: Summarization skills of engineering students reading in a second language, Language for Specific Purposes, Challenges and Prospects, Belgrade, 2011

	Representative refferences (minimum 5, not more than 10)			
8.	Mirović I, Gak D,, Bogdavović V.: Trust me - I'm an engineer or: Why we should challange our students with demanding tasks, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012			
9.	Gak D, Bogdanović V, Mirović I, : Questionnaire - an instrument for collecting valuable data from teachers of business English courses, 5th International Conference on the Importance of Learning Professional Foreign Languages for Communication between Cultures, Celje, Slovenia, 2012			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	0			
Current projects :	Domestic :	0	International :	0

Science, arts and professional qualifications

Name and last name:	Nađ F. Laslo
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.05.1977
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	1983	Faculty of Electronic Engineering - Niš	Electronics
Bachelor's thesis	1977	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	EM304	Impulse and Digital Electronic Circuits	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
3.	EM440	Computer-Aided Electronic Circuit Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	H305	Analogue Electronics	(H00) Mechatronics, Undergraduate Academic Studies
5.	H309	Impuls Electronics	(H00) Mechatronics, Undergraduate Academic Studies
6.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI99	Electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E138A	Digital Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EM301A	Analog Microelectronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	DE400S	Complex Digital Systems and High Frequency Circuits	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE501S	Selected Chapters in Pulse and Analogue Electronics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	EM530	Selected Chapters in Impulse Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	SI032	Selected Chapters in Mechatronics	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	BMIM1B	EMI and EMC in medicine equipment	(BM0) Biomedical Engineering, Master Academic Studies
17.	EM406A	High-Frequency Digital Systems and Circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	DE400	Complex Digital Systems and High Frequency Circuits	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
19.	DE501	Selected Chapters in Pulse and Analogue Electronics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Radosavljević G., Živanov Lj., Smetana W., Marić A., Unger M., Nađ L.: A Wireless Embedded Resonant Pressure Sensor Fabricated in the Standard LTCC Technology, IEEE Sensor Journal, 2009, Vol. 9, No 12, pp. 1956-1962, ISSN 1530-437X
2.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac, "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11 (2001), pp.869-897.

	Representative refferences (minimum 5, not more than 10)
3.	Damnjanović M., Živanov Lj., Nađ L., Đurić S., Biberdžić B.: A Novel Approach to Extending the Linearity Range of Displacement Inductive Sensor , IEEE Transactions on Magnetics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464
4.	Nađ L., Radić J., Đugova A., Videnović-Mišić M.: Ultra Low-Power Low-Complexity Tunable 3-10 GHz IR-UWB Pulse Generator, Informacije MIDEM - Journal of microelectronics, electronic components and materials, 2012, Vol. 3, ISSN 0352-9045
5.	Đurić S., Nađ L., Damnjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362
6.	Radić J., Đugova A., Nađ L., Videnović-Mišić M.: Feedback Influence on Performance of Ring Oscillator for IR-UWB Pulse Generator in 0.18μm CMOS technology, 28. International Conference on Microelectronics – MIEL, Niš: IEEE, 13-16 Maj, 2012, pp. 357-360, ISBN 978-1-4673-0235-7 , UDK: 10.1109/MIEL.2012.6222873
7.	Nađ L., Babković K., Krklješ D., Borovac B.: Elastic Foot Contact Force Sensor System — Pendulum Application Example, 14. International Power Electronics and Motion Control Conference EPE-PEMC, Ohrid, 6-9 Septembar, 2010, pp. 38-38, ISBN 978-1-4244-7856-9
8.	Babković K., Nađ L., Krklješ D.: Optical Sensor for Vibration Monitoring with Automatic Operating Point Adjustment, 28. International Conference on Microelectronics – MIEL, Niš, 13-16 Maj, 2012, pp. 189-192, ISBN 978-1-4673-0235-7
9.	Radić J., Đugova A., Nađ L., Videnović-Mišić M.: Body Bias Influence on Ring Oscillator Performance for IR-UWB Pulse Generator in 0.18μm CMOS technology , 47. International Scientific Conference on Information, Communication and Energy Systems and Tehnologies - ICEST, Veliko Trnovo, 28-30 Jun, 2012, pp. 82-85
10.	Krklješ D., Babković K., Nađ L.: Specific Conductance Characteristic of Force Sensing Resistor (FSR) with Custom Made Single-gap Conductive Contacts, 2. ICMAST-International Conference on Materials and Applications for Sensors and Transducers, Budapest, 24-28 Maj, 2012

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	6			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	3	International :	1

Science, arts and professional qualifications

Name and last name:	Nikolić 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
	01.10.1990
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1997	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1992	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1981	Faculty of Sciences - Novi Sad	Mathematics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H103	Mathematics 1	(H00) Mechatronics, Undergraduate Academic Studies
2.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	Z104	Mathematics 1	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z106	Mathematics 2	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z104	Matematika 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z106	Matematika 2(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	ETI03	History of science and technology	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	IA001	Algebra	(F10) Engineering Animation, Undergraduate Academic Studies
11.	II1052	Mathematics 2	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	IM1002	Mathematics 1	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	IM1006	Mathematics 2	(I20) Engineering Management, Undergraduate Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Aleksandar Nikolić, About two famous results of Jovan Karamata, Archives Internationales D"Histoire des Sciences, n. 141, Vol. 48, 1998, pp. 353-373
2.	Aleksandar Nikolić, Space and Time in the Apparatus of Infinitesimal Calculus, Review of Research, Faculty of Science, Mathematics Series 23, 1, 1993, pp. 199-218
3.	Nevenka Adžić, Aleksandar Nikolić, Uvod u teoriju redova, FTN Novi Sad, 2001, s. 124
4.	Irena Čomić, Aleksandar Nikolić, Diferencijalne jednačine, FTN Novi Sad, 1999, s. 122
5.	Aleksandar Nikolić, Jovan Karamata, život kroz matematiku, Zadužbina Andrejević, 1999, s.105
6.	Marić, V., Nikolić, A., Vojislav G. Avakumović (1910-1990) - A Passionate Man of Mathematics, Ganita Bharati, Vol. 30, No. 1, 45-60, 2008.
7.	Nikolić, A., Karamata"s Proofs of Pappus-Pascal and Desargues Theorems, ICAM 2007, G.B. Pant University, India.
8.	Nikolić, A., The Story of Majorisability as Karamata"s Condition of Convergence for Abel Summable Series, Historia Mathematica, 36, 4, 2009, 405-419.
9.	Nikolić, A., Mathematical education in the Province of Vojvodina within the Habsburg Monarchy, History of Mathematics, 41, 2010, 109-124.
10.	Aleksandar Nikolic, Mathematician Judita Cofman (1936–2001), Teaching Mathematics and Computer Science, Institute of Mathematics, and Faculty of Informatics, University of Debrecen, Hungary. 2012 Vol. X. Issue I, s. 91-115. ISSN 1589 - 7389

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Novaković N. Branislava
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	05.12.1997
Scientific or art field:	Deformable Body Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Deformable Body Mechanics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Theory of Construction

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

	ID	Course name	Study programme name, study type
1.	GG15	Strength of Materials	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG410	Selected Chapters in the Theory of Elasticity	(G00) Civil Engineering, Undergraduate Academic Studies
3.	H202	Strength of materials	(H00) Mechatronics, Undergraduate Academic Studies
4.	M2412	Theory of Elasticity	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	M4402	Dynamics and Stability of Constructions	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	BMI96	Mechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	M2546	Selected Chapters in the Theory of Elasticity	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	M4503	Higher Course in Elasticity	(M40) Technical Mechanics and Technical Design, Master Academic Studies
10.	DAU003	Selected Chapters in Mechanics	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
11.	DM403	Mathematical Rod Theory	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
13.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Atanackovic, T. M., Novakovic, B. N.: ON A FRACTIONAL DERIVATIVE TYPE OF A VISCOELASTIC BODY. Theoretical and Applied Mechanics. Vol. 28-29, pp 27-37, Belgrade 2002
2.	B. N. Novakovic, T. M. Atanackovic.: ON STABILITY OF THE COLUMN WITH A STEP CHANGE IN A CROSS SECTION. Iranian Journal of Science and Technology. Vol 28, No B4, 2004
3.	T. M. Atanackovic, B. N. Novakovic, : OPTIMAL SHAPE OF AN ELASTIC COLUMN ON ELASTIC FOUNDATION. European Journal of Mechanics A/Solids. Vol.25, No 1, pp 154-165, 2006
4.	Branislava N. Novaković: O STABILNOSTI ŠTAPA NA ELASTIČNOJ PODLOZI, Međunarodna konferencija 2006 SAVREMENI PROBLEMI U GRAĐEVINARSTVU, Subotica, 2-3 Jun 2006
5.	Novakovic B., Atanackovic T.: ON THE OPTIMAL SHAPE OF AN ELASTIC ROD ON ELASTIC FUONDATION, The First International Conference on Computational Mechanics, Belgrade, November 15-17, 2004
6.	B. N. Novakovic, STABILITY OF THE COLUMN WITH A STEP CHANGE, 23th Congress of Theoretical and Applied Mechanics, Belgrade, October 12-13, 2001
7.	B. N. Novakovic, ON STABILITY OF THE COLUMN WITH A STEP CHANGE, ISIRR 2002, Novi Sad, October 2002

Representative refferences (minimum 5, not more than 10)	
8.	Atanackovic T., Novakovic B. : STABILITY OF AN ELASTIC ROD ON ELASTIC FOUNDATION,24th Congress of Theoretical and Applied Mechanics, Belgrade, October 9-10, 2003.
9.	B. N. Novaković, T. M. Atanacković: STABILNOST ELASTIČNOG ŠTAPA NA ELASTIČNOJ PODLOZI, INDIS 2003, 9th National and 3rd International scientific meeting, Novi Sad,
10.	Atanackovic T.M., Novakovic B.N.: OPTIMAL SHAPE OF AN ELASTIC, 25th Congress of Theoretical and Applied Mechanics, Novi Sad, June1-3, 2005.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	2			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Ostojić M. Gordana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	06.03.2000
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1501A	Systems for Survalance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1504	Computer Integration of Production Systems	(H00) Mechatronics, Undergraduate Academic Studies
6.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
7.	BM116B	Acquisition, analysis and monitoring of medical data	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BM116C	Motion control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BM119C	Automatic identification in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1009	Automatic identification systems	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
13.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
14.	II1029	Computer integrated manufacturing	(I10) Industrial Engineering, Undergraduate Academic Studies
15.	II1045	Systems for measurement, surveillance and control	(I10) Industrial Engineering, Undergraduate Academic Studies
16.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
17.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies
			(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
18.	IM1035	Identification technologies in enterprises	(I20) Engineering Management, Undergraduate Academic Studies
19.	IM1117	Computer integrated manufacturing (CIM)	(I20) Engineering Management, Undergraduate Academic Studies
20.	H1503	Non Industrial Robotics and Automation in Buildings	(H00) Mechatronics, Master Academic Studies
			(I10) Industrial Engineering, Master Academic Studies
21.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
22.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
23.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies

	ID	Course name	Study programme name, study type
24.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
25.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
26.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
27.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
28.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
29.	I907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies
30.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
31.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies
32.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
33.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
34.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
35.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
36.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
37.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
38.	HDOL13	Motion controla and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
39.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
40.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
41.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)			

1. Stankovski S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Didactic Manipulator in Mechatronics and Industrial Engineering Courses, IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. 572-579, ISSN 0018-9359

2. Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575

3. Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016

4. Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators, Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, Vol. 36, No. M1 , pp. 95-106, ISSN 2228-6187.

5. Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML Robot Grasping Process Improvement, Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, Vol. 35, No. M1 , pp. 61-71, ISSN 2228-6187.

6. Popović B., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote Control of Laboratory Equipment for Basic Electronics Courses: A LabVIEW-based Implementation DOI: 10.1002/cae.20531, Computer Applications in Engineering Education, 2011, ISSN 1061-3773

7. 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

8. Ostojić, G., Stankovski, S.: Sistemi i uređaji za praćenje proizvoda tokom životnog ciklusa, Fakultet tehničkih nauka, 2012

9. Ostojić, G.,Stankovski, S., Tarjan, L., Šenk, I., Jovanović, V., DEVELOPMENT AND IMPLEMENTATION OF DIDACTIC SETS IN MECHATRONICS AND INDUSTRIAL ENGINEERING COURSES,International Journal of Engineering Education; 2010, Vol. 26, No. 1, pp. 2-8, ISSN 0949-149X

Representative refferences (minimum 5, not more than 10)	
10.	Popkonstantinović B., Miladinović Lj., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: DESIGN, MODELLING AND MOTION SIMULATION OF THE REMONTOIRE MECHANISM, Transactions of FAMENA, 2011, Vol. 35, No 2, pp. 79-93, ISSN 1333-1124.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	25			
Total of SCI(SSCI) list papers :	17			
Current projects :	Domestic :	3	International :	2

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:	Petrović S. Vladimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2001	University of Manchester - Padej	Telecommunications and Signal Processing
Bachelor's thesis	-		Telecommunications and Signal Processing
Magister thesis	-		Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK300	Digital Modulations	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK412	Shape Recognition	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI121	Image processing and Computer Vision in Medical Imaging	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK463	Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK464	Communication Systems Design	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK520	Medical Image Processing	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	H1420	Fundamentals in Mechanical Vision	(H00) Mechatronics, Master Academic Studies
9.	DE311	Selected Chapters in Pattern Recognition	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Petrović V., Babalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828

2. Petrović V., Cootes T.: Objectively Adaptive Image Fusion, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535

3. Petrović V.: Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 208-216, ISSN 1566-2535

4. Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, IEEE Transactions on Image Processing, 2004, Vol. 13, No 2, pp. 228-237, ISSN 1057-7149

5. Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, INFORM FUSION, 2003, Vol. 4, pp. 167-183, ISSN 1566-2535

6. Petrović V., Xydeas C.: Objective Evaluation of Signal-level Image Fusion Performance, OPT ENG, 2005, Vol. 44, No 8, ISSN 0091-3286

7. V Petrović, T Cootes, C Twining, C Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Arlington,USA, 12-15 April 2007

8. V Petrović, T Cootes, A Mills, C Taylor, „Simultaneous Segmentation of Groups of Medical Images", Medical Image Understanding and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007

9. V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007

10. V Petrović, T Cootes, C Twining, A Mills, C Taylor, „Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir Bhalerao and Nasir Rajpoot; Warwick, GB September 10-13, 2007

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

Quotation total :	1359			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Pjevalica U. Nebojša
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.08.1997
Scientific or art field:	Electrical Measurements

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Electrical Measurements

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

	ID	Course name	Study programme name, study type
1.	E130	Electrical Measurements	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	E227A	Logic Design of Computer Systems 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E244	Selected Chapters in Physical Architecture Design	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	BMI115	Biomedical Engineering in Cognitive Neuroscience	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EI410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EIMET	Metrology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
8.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
9.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
10.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

1. A.Kozarev, N. Pjevalica, V. Macar, D. Roncevic, O. Varga-Silberholc, "Some Issues in Multimedia/B-ISDN Based Telecommunication Network Evolution - General Model", Telsiks"97, Vol2, pp.425-428, Nis, Yugoslavia 1997.

2. A.Kozarev, M. Nikolic, D. Milidrag, N. Pjevalica, "An Integrated Approach to Public Telecommunication Network in Multimedia/B-ISDN Environment", Telsiks"97, Vol2, pp.421-424, Nis, Yugoslavia 1997.

3. D. Zrilic, N. Pjevalica, "Frequency Deviation Measurement Based on Two - Arm Delta - Sigma Modulated Bridge", IMTC2001 IEEE Instrumentation and Measurement Technology Conference, pp.756-760, Budapest, Hungary 2001.

4. D. Zrilic, N. Pjevalica, "Stochastic Signal Processing Using Delta - Sigma Modulation", Proceedings of the Fifth Biannual World Automation Congress WAC 2002, Vol 14, pp653-658, Orlando, Florida, USA 2002.

5. B. Antić, N. Pjevalica, A New Approach to Power Grid Measurements - Measuring in Frequency Domain, JUKO CIRED 2006, Zlatibor 17.-20. oktobar.

6. Djuro G. Zrilic, Nebojsa U. Pjevalica, "Frequency Deviation Measurement Based on Two-Arm D-S Modulated Bridge" IEEE Transactions on instrumentation and measurement, vol. 53, no.2, april 2004, pp.293-299.

7. N. Pjevalica, V. Pjevalica, "Merenja na visokonaponskoj distributivnoj mreži primenom digitalnih mernih pretvarača", Simpozijum o merenjima i mernoj opremi, Zbornik radova, knjiga prva, pp505-513, Beograd, Yugoslavia,1998.

Representative refferences (minimum 5, not more than 10)	
8.	V. Vujičić, N. Pjevalica, "Stohastička realizacija digitalnih filtara", D.O.G.S. 2000 zbornik radova, pp.60-63, Novi Sad, Yugoslavia 2000
9.	N. Pjevalica, "Digitalno merilo efektivne vrednosti", Kongres metrologa Jugoslavije 2000, (CD-ROM zbornik radova), Novi Sad, Yugoslavia 2000.
10.	J. Tomić, N. Pjevalica, Integrisano merilo harmonika, Kongres metrologa, Beograd, 2005 godina.

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

Science, arts and professional qualifications

Name and last name:	Plančak E. Miroslav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1975
Scientific or art field:	Plastic Deformation Technology, Rapid Prototyping, Virtual

Academic carieer	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology
Bachelor's thesis	1969	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	IA016	Introduction to Virtual Reality Technology	(F10) Engineering Animation, Undergraduate Academic Studies
2.	P207	Metal forming	(P00) Production Engineering, Undergraduate Academic Studies
3.	P2401	Advanced Methods in Metal Forming	(P00) Production Engineering, Undergraduate Academic Studies
4.	P2413	Computer Aided Design of Tools and Dies for Metal Forming	(P00) Production Engineering, Undergraduate Academic Studies
5.	P303	Machines for Processing by Deforming	(P00) Production Engineering, Undergraduate Academic Studies
6.	P3403	Technology of Plastic Forming - Shaping of plastic material	(P00) Production Engineering, Undergraduate Academic Studies
7.	P3503	Machines and Devices for Plastic Processing	(P00) Production Engineering, Undergraduate Academic Studies
8.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	M2062	Mechanical engineering technologies 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	P2407	Rapid Prototyping and Rapid Tooling	(PM0) Production Engineering, Master Academic Studies
11.	P3501	Tool Designing for Plastic	(PM0) Production Engineering, Master Academic Studies
12.	P3503A	Contemporary Process Systems for Plastic Treatment	(PM0) Production Engineering, Master Academic Studies
13.	NIT01	Innovative Product Development	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	BMIM4B	Technologies of shaping biomedical materials	(BM0) Biomedical Engineering, Master Academic Studies
			(PM0) Production Engineering, Master Academic Studies
15.	MIA11	Machines and dies for powder forming	(PM0) Production Engineering, Master Academic Studies
16.	P321	Reverse Engineering and Rapid Prototyping	(I10) Industrial Engineering, Master Academic Studies
17.	PMISP1	Modelling and Simulation of Metal Forming Processes	(PM0) Production Engineering, Master Academic Studies
18.	DM411	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and Virtual Manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies
20.	DP005	State and Tendencies in Development of Metrology, Quality and Equipment	(M00) Mechanical Engineering, Doctoral Academic Studies
21.	DP008	Contemporary Methods and TPD Systems	(M00) Mechanical Engineering, Doctoral Academic Studies
22.	DP012	Physical Modelling and TPD Simulation by Computers	(M00) Mechanical Engineering, Doctoral Academic Studies
23.	DP015	Nonconventional Procedures of Forming in TPD	(M00) Mechanical Engineering, Doctoral Academic Studies
24.	DP027	Advanced technologies of plastics packiging manufacturing	(M00) Mechanical Engineering, Doctoral Academic Studies
25.	DP029	Advanced Development of Polymeric Products	(M00) Mechanical Engineering, Doctoral Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Essa K., Kacmarcik I., Hartley P., Plancak M., Vilotic D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing Technology, 2012, Vol 212, Nr 4, pp. 817-824, ISSN/ISBN: 0924-0136
2.	Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, Experimental Mechanics, 2006, Vol 46, pp. 115-120, ISSN: 0014-4851
3.	Plančak M., Bramley A. N., Osman F. H.: Some observation on contact stress measurement by pin load cell in bulk metal forming, Journal of Material and Processing Technology 60, 1996, pp. 339-342, ISSN/ISBN: 0924-0136
4.	Plančak M., Bramley A. N.. Osman F. H.: Non conventional cold extrusion, Journal of Material and Processing Technology 34, 1992, pp. 465-472, ISSN/ISBN: 0924-0136
5.	Hiroši I., Plančak M.: Coining process as a means of controlling surface microgeometry, Journal of Material Processing Technology, Vol 80-81, 1998, pp. 101-107, ISSN/ISBN: 0924-0136
6.	Plančak M., Vollertsen F., Woitschig J.: Analysis, finite element simulation and experimental investigation of friction in tube hydroforming, Journal of Material Processing Technology, Vol. 170, Issue I-2, 2005, pp.220-228, ISSN/ISBN: 0924-0136
7.	Vollertsen F., Plančak M.: On possibilities for the determination of the coefficient of friction in hydroforming of tubes, Journal of Material processing Technology, Vol 125-126, 2002, pp. 412-420, ISSN/ISBN: 0924-0136
8.	Plančak M.: Stress distribution within specimen in cold forward extrusion of steel, Journal of Materials Processing Technology, Vol 24, 1990, pp. 387-394, ISSN/ISBN: 0924-0136
9.	Vilotic D., Alexandrov S., Plancak M., Vilotic M., Ivanisevic I., Kacmarcik I.: Material Formability at Upsetting by Cylindrical and Flat Dies, Steel Research International Special Issue, 2012, pp. 1175-1178, ISSN: 1611-3683
10.	Plancak M., Hartley P., Essa K., Vilotic D., Movrin D, Luzanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International Special Issue, 2012, pp. 1247-1250, ISSN/ISBN: 1611-3683

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	92			
Total of SCI(SSCI) list papers :	23			
Current projects :	Domestic :	1	International :	2

Science, arts and professional qualifications

Name and last name:	Puškar M. Tatjana
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Medical Faculty in Novi Sad - Novi Sad
	30.09.2010
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2010	Medical Faculty in Novi Sad - Novi Sad	Medical Science
PhD thesis	2009	Medical Faculty in Novi Sad - Novi Sad	Stomatology Science
Magister thesis	1999	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Education Specialist Thesis	1997	Medical Faculty in Novi Sad - Novi Sad	Medical Science

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

	ID	Course name	Study programme name, study type
1.	BM119D	Reverse engineering and rapid prototyping in biomedical engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Jevremović D., Puškar T., Kosec B., Vukelić Đ., Budak I., Aleksandrović S., Eggbeer D., Williams R.: The analysis of the mechanical properties of F75 Co-Cr alloy for use in selective laser melting (SLM) manufacturing of removable partial dentures (RPD), Metalurgija, 2012, Vol. 51, No 2, pp. 171-174, ISSN 0543-5846

2. Jevremović D., Puškar T., Budak I., Vukelić Đ., Kojić V., Eggbeer D., Williams R.: An RE/RM approach to the design and manufacture of removable partial dentures with a biocompatibility analysis of the F75 Co-Cr SLM alloy, Materijali in tehnologije, 2012, Vol. 46, No 2, pp. 123-129, ISSN 1580-2949

3. Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871

4. Jevremović D., Kojić V., Bogdanović G., Puškar T., Eggbeer D., Thomas D., Williams R.: A selective laser melted Co–Cr alloy used for the rapid manufacture of removable partial denture frameworks – initial screening of biocompatibility. , Journal of Serbian Chemical Society, 2011, Vol. 76, No 1, pp. 43-52, ISSN 0352-5139, UDK: 546.73'76 544.35:544.537: 57.083.36:577.338

5. Jevremović D., Kojić V., Bogdanović G., Puškar T., Eggbeer D., Thomas D., Williams R.: A selective laser melted Co-Cr alloy used for the rapid manufacture of removable partial denture frameworks - initial screening of biocompatibility , Journal of the Serbian Chemical Society, 2011, Vol. 76, No 1, pp. 43-52, ISSN 0352-5139

6. Puškar T., Vasiljević D., Marković D., Jevremović D., Pantelić D., Savić Šević S., Murić B.: Formiranje trodimenzionalnog matematičkog modela zuba metodom konačnih elemenata. , Srpski arhiv za celokupno lekarstvo, 2010, Vol. 138, pp. 19-25, ISSN 0370-8179

7. Jevremnović D., Trifković B., Lapčević A., Puškar T., Budak I., Vukelić Đ., Hodolič J.: The Use of CAD/CAM Technology in Design and Manufacture of Thin Laminate Veneers, 11. International Scientific Conference "New Ways in Manufacturing Technologies", Prešov: Faculty of Manufacturing Technologies with a seat in Prešov, 21-23 Jun, 2012, ISBN 978-80-553-0908-8

8. Puškar T., Jevremović D., Eggbeer D., Lapčević A., Trifković B., Vukelić Đ., Williams R.: Determination of corrosion characteristics of dental alloy by inductively coupled plasma mass spectrometry, 11. International Scientific Conference "Advanced Production Technologies" - MMA, Novi Sad: Faculty of Technical Sciences, 20-21 Septembar, 2012, pp. 509-512, ISBN 978-86-7892-429-3

9. Hodolič J., Puškar T., Bešić I.: Current status and future trends in dental CAD restorative systems, 34. International Conference on Production Engineering, Niš: Faculty of Mechanical Engineering, 28-30 Septembar, 2011, pp. 185-189, ISBN 978-86-6055-019-6

10. Milutinović M., Vilotić D., Puškar T., Marković D., Ivanišević A.: Metal forming technologies in dental components production, 34. International Conference on Production Engineering, Niš, 28-30 Septembar, 2011, pp. 309-312, ISBN 978-86-6055-019-6

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

Quotation total :	27			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Ristić V. Aleksandar		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad		
	01.02.2000		
Scientific or art field:	Automatic Control and System Engineering		
Academic carieer	**Year**	**Institution**	**Field**
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	**Course name**	**Study programme name, study type**
1.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI404A	Digital Terrain Models	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI409A	Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
10.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
11.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
15.	GI537	Geosensor networks	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
17.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI04	Selected Chapters in Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
21.	DGI004	Selected Chapters in Underground Infrastructure Utility Detection	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
22.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
23.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

	List of courses being held by the teacher in the accredited study programmes		
	ID	**Course name**	**Study programme name, study type**
24.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
25.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
26.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Aleksandar Ristić, Dušan Petrovački, Miro Govedarica: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004, (IF2010 1.416)
2.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar: Metadata Catalogues in Spatial Information Systems (Review), GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
3.	Aleksandar Ristić, Biljana Abolmasov, Miro Govedarica, Dušan Petrovački, Aleksandra Ristić: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta geotechnica slovenica, (2012), vol. 9, issue 1, pp 46-59, (IF 2011, 0.100)
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY, Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)
5.	Ristić Aleksandar, Govedarica Miro, Petrovački Dušan: GNSS status and perspective, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 1, Str. 6-10, UDK 63:004(497.11)
6.	Ristić Aleksandar, Petrovački Dušan, Govedarica Miro: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 2, Str. 76-80, UDK 621.396.96(075.8)
7.	Ristić A., Petrovački D., Govedarica M., Popov S.: Detekcija podzemnih voda i tokova Georadarom, Vodoprivreda, 2007, Vol. 39, Broj 229-230, str. 344-349, ISSN 0350-0519, UDK: 551.491.5
8.	Ristić A., Petrovački D., Govedarica M. : Flooding bank structure modelling using GPR, GNSS and airborne laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 99-103, ISBN 978-3-938373-93-4
9.	Ristić A., Govedarica M., Petrovački D. : Landslide analysis using GPR, GNSS and terrestrial laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space- Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 90-94, ISBN 978-3-938373-93-4
10.	Govedarica M., Petrovački D., Ristić A:GNSS - Based Ground Penetration Radar Applications, 2. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, EUPOS ISC, UN OOSA, ICG, 11-14 Novembar, 2008, str. 93-94

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	2			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Rosić -. Mirko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Medical Sciences - Kragujevac
	01.01.2000
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Medical Sciences - Kragujevac	Medical Science
PhD thesis	1990	School of Medicine - Beograd	Medical Science
Magister thesis	1988	School of Medicine - Beograd	Medical Science
Bachelor's thesis	1984	School of Medicine - Beograd	Medical Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU43	Fundamentals of Biomedical Engineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	BMI104	Physiology with pathophysiology	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)
1. O. Gajović, Z. Lazić, S. Pantović, M. Čočić, J. Stojanović, J. Stanarčić, G. Rosić i M. Rosić. Effects of 3-methylhistamine and phenylethylamine on histamine action on isolated gunea-pig trachea rings. Acta veterinaria 2011; 61(5-6):505-512.
2. N. Filipovic, M. Rosic, I. Tanaskovic, Z. Milosevic, D. Nikolic, N. Zdravkovic, A. Peulic, M. Kojic, D. Fotiadis and O. Parodi. ARTreat project - Three-dimensional Numerical Simulation of Plaque Formation and Development in the Arteries. IEEE Transactions on Information Technology in BioMedicine 2012; 16(2):272-278.
3. V. Zdravkovic, S. Pantovic, G. Rosic, A. Tomic-Lucic, N. Zdravkovic, M. Colic, Z. Obradovic, and M. Rosic. Histamine blood concentration in ischemic heart disease patients. J Biomed Biotechnol 2011; 2011:315709.
4. M. Rosic, V. Ilic, Z. Obradovic, S. Pantovic, G. Rosic. The mathematical analysis of the heart rate and blood lactate curves during incremental exercise testing. Acta Physiol Hung 2011; 98(4):455–463.
5. M.A. Rosic, S. Pantovic, G.L. Rosic, A. Tomic-Lucic, T. Labudovic, V. Zivkovic and V. Jakovljevic. Glucagon effects on ischemic vasodilatation in the isolated rat heart. Journal of Biomedicine and Biotechnology 2010; 2010:231832
6. Pantovic S, Rosic G, Obradovic Z, Rankovic G, Stojiljkovic N. and Rosic M. Dynamic response of blood vessel in acute renal failure. Gen Physiol Biophys 2009; 28:87-92.
7. Rosic M, Pantovic S, Rankovic V, Obradovic Z, Filipovic N. and Kojic M. Evaluation of dynamic response and biomechanical properties of isolated blood vessels. J Biochem Biophys Methods 2008; 70(6):966-972.
8. Stojanovic B, Kojic M, Rosic M, Tsui C P. and Tang CY. An extension of Hill's three-component model to include different fibre types in finite element modelling of muscle. International Journal for Numerical Methods in Engineering 2007; 71:801-817.
9. Rosic M, Pantovic S. and Obradovic Z. Experimental and mathematical model for the evaluation of dynamic responses of isolated blood vessels. Medicus 2006; 7(3):98-102.
10. M. Kojic, A. Ziemys, M. Milosevic, V. Isailovic, N. Kojic, M. Rosic, N. Filipovic, M. Ferrari. Transport in biological systems. Journal of the Serbian Society for Computational Mechanics 2011; 5(2):101-128.

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

Science, arts and professional qualifications

Name and last name:	Sečujski S. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.06.2000
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK314	Digital Signal Processing	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK421	Digital Image Processing	(F10) Engineering Animation, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	BM118B	Acoustics and Audio Engineering in Medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	E137	Basics of Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK312L	Acoustics and Audio Engineering in Multimedia	(F10) Engineering Animation, Undergraduate Academic Studies
9.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	ETI27	Audio Engineering	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EK522	Computer Vision (Digital Image Processing 2)	(F20) Engineering Animation, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	S0151	Application of Digital Signal Processing in Telecommunications	(S01) Postal Traffic and Telecommunications, Master Academic Studies
15.	SI036	Computer-Telephony Integration	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	SI037	Telecommunication Infrastructure of E-Business	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	(BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	(F20) Engineering Animation, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

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

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

Science, arts and professional qualifications

Name and last name:	Sladoje Matić I. Nataša
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	14.03.1994
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Mathematics
PhD thesis	2005	University of Novi Sad - Novi Sad	Mathematical Sciences
Magister thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1992	Faculty of Sciences - Novi Sad	Mathematical Sciences

	List of courses being held by the teacher in the accredited study programmes		
	ID	Course name	Study programme name, study type
1.	A101	Mathematics	(A00) Architecture, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA008	Mathematics for Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
			(I12) Industrial Engineering, Specialised Academic Studies
			(I22) Engineering Management, Specialised Academic Studies
			(Z00) Environmental Engineering, Specialised Academic Studies
11.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
			(Z20) Environmental Engineering, Master Academic Studies
12.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
13.	D0M28	Digital Geometry	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M29	Image Processing 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M30	Image Processing 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M33	Positional Games	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
20.	AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<\eng>
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<\eng>
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<\eng>
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<\eng>
8.	Ćurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349

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

Quotation total :	71		
Total of SCI(SSCI) list papers :	21		
Current projects :	Domestic :	2	International :	3

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.	EIMMB M	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EIPDMS	Programming of Measurement and Data Acquisition Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIVI	Virtual measurement systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIWDS	Web-based Measurement and Data Acquisition Systems	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	BMIM5A	Virtual measurement instrumentation in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
11.	BMIM5B	Design and development of medical devices and systems	(BM0) Biomedical Engineering, Master Academic Studies
12.	BMIM5C	Brain Computer Interface	(BM0) Biomedical Engineering, Master Academic Studies
13.	BMIM5D	Magnetic-Resonance Devices in Biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM5E	Distributed measurement and acquisition systems in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
15.	EIIKL	Engineering communication, logistics and intellectual property	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
16.	EIMRV1	Real Time Measurements	(MR0) Measurement and Control Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	DE303	Biomedical Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies

	List of courses being held by the teacher in the accredited study programmes		
	ID	Course name	Study programme name, study type
18.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
19.	DE518	Brain Computer Interface Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

	Representative refferences (minimum 5, not more than 10)
1.	Sovilj P.: Stohastičko digitalno merenje EEG signala, Novi Sad, Fakultet tehničkih nauka, 2010
2.	Sovilj P.: Eksterno testiranje površinskih kalemova uređaja za magnetsku rezonancu, FTN Novi Sad, 2006
3.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456
4.	Sovilj P., Pjevalica N.: FPGA based model of processing EEG signal, 17. Telekomunikacioni forum TELFOR, Beograd: Telecommunications society, Belgrade, 24-26 Novembar, 2009, pp. 677-680, ISBN 978-86-7466-375-2
5.	Sovilj P., Čabrilo N., Vujičić V., Župunski I.: Remote measurements by ZigBit wireless module, 10. International Conference on Accomplishments in Electrical and Mechanical Engineering and Information Technology - DEMI, Banja Luka: Mašinski fakultet Banja Luka, 26-28 Maj, 2011, pp. 885-891, ISBN 978-99938-39-36-1, UDK: 621(082);621.3(082)
6.	Sovilj P., Davidović D., Beljić Ž., Ković V.: Measurement and processing of event-related brain potential records, 19. Telekomunikacioni forum TELFOR, Beograd: TELFOR, 22-24 Novembar, 2011, pp. 683-686, ISBN 978-1-4577-1498-6
7.	Pjevalica N., Pjevalica V., Sovilj P.: Tehničko rešenje: Unapređeni algoritam upravljanja memorijom, Razvijeno: u okviru projekta tehnološkog razvoja TR-11005, 2011
8.	Ivanović M., Sovilj P.: Developing Expert System for assessment of quality management level, International Journal Total Quality Management
9.	M. Bobrek, Z. Tanasić, P. Sovilj: Upravljanje projektima, udžbenik, MFBL, Banja Luka, 2006
10.	M. Bobrek, M. Soković, P. Sovilj, Z. Tanasić: Upravljanje kvalitetom, udžbenik, MFBL, Banaj Luka 2006, COBISS.SI-ID 982249

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:		Spasić T. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1985	
Scientific or art field:		Mechanics	

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	1993	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1991	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1884	Faculty of Technical Sciences - Novi Sad	Information-Communication Systems

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A207	Mechanics	(A00) Architecture, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
2.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
4.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	M4302	Biomechanics and mechanics of sport	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	ASO	Introduction to engineering	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BMI128	Continuum Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI96	Mechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44041	Dynamics of non-smooth mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
14.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
15.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
17.	DM406	Nonsmooth Mechanics and Optimization	(H00) Mechatronics, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies

	ID	Course name	Study programme name, study type
		List of courses being held by the teacher in the accredited study programmes	
19.	ZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Doctoral Academic Studies
20.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
21.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies
22.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
23.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Spasić D., Glavardanov V.: Does generalized elastica lead to bimodal optimal solutions?, International Journal of Solids and Structures, 2009, Vol. 46, No 14-15, pp. 2939-2949, ISSN 0020-7683
2.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, No Prihvaćen za štampu, ISSN 0218-1274
3.	D. T. Spasic and T. M. Atanackovic (2004), "Bimodal optimization of a compressed rotating rod", Acta Mechanica, 173, N 1-4, 77-87
4.	Spasić D.: Optimizing the elctrodynamical stabilization method for a man-made Earth satellite, AUTOMAT REM CONTR , 2011, Vol. 72, No 9, pp. 112-121, ISSN 0005-1179
5.	Petrović Lj., Spasić D., Atanacković T.: On a mathematical model of a human root dentin , Dental Materials, 2005, Vol. 21, pp. 125-128, ISSN 0109-5641
6.	Mitić G., Spasić D.: Clinical Characteristic and type of thrombophilia in women with pregnancy-related venous thromboembolic disease, GYNECOL OBSTET INVES, 2011, Vol. 72, No 2, pp. 103-108, ISSN 0378-7346
7.	T. M. Atanackovic and D. T. Spasic, (2004): "On viscoelastic compliant contact-impact models", Transactions of ASME Journal of Applied Mechanics, 71, 134-138
8.	Radovic R., Spasic D.T., Karadzic B., Novakovic B., Atanackovic J., Jelicic Z.. and Tepavcevic B., (2002), ""New challenges and opportunities for the city of Novi Sad"", Coordinated by T. Atanackovic, The Danube Commision of EU and The University of Novi Sad, (monograph 157 pages in English and Serbian)
9.	Spasić D.: Boudary elements, theory and applications (English to serbian traslation done by D.T. Spasić), Beograd, Gradjevinska knjiga, 2011
10.	BD Vujanović, DT Spasić: Metodi optimizacije: primenjeni varijacioni račun, analitička mehanika, optimalno upravljanje, UNS, 1997.

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

Quotation total :	16			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Stankovski V. Stevan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	23.03.1987
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1409	Intelligent Systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
6.	H1501A	Systems for Survailance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
7.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
8.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BM116C	Motion control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	II1009	Automatic identification systems	(I10) Industrial Engineering, Undergraduate Academic Studies
13.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
14.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
15.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
16.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
17.	II1042	Automation of Continual Processes	(I10) Industrial Engineering, Undergraduate Academic Studies
18.	II1045	Systems for measurement, surveillance and control	(I10) Industrial Engineering, Undergraduate Academic Studies
19.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
20.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
21.	IM1035	Identification technologies in enterprises	(I20) Engineering Management, Undergraduate Academic Studies
22.	IM1719	Implementation of information systems in insurance	(I20) Engineering Management, Undergraduate Academic Studies
23.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies

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

	Representative refferences (minimum 5, not more than 10)
2.	Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575
3.	Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016
4.	Stankovski, S., Ostojić, G., Raković, M., Trajan, L., Šenk, I., Nikolić, M.: Zbirka rešenih zadataka iz: Programiranje i primena programabilno logičkih kontrolera, Fakulte tehničkih nauka, 2009
5.	Stankovski, S., Rakić-Skoković, M., Šešlija, D., Ostojić, G.: Primena RFID tehnologije u automatizaciji
6.	Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R.: RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, No 4, pp. 364-370, ISSN 0144-5154
7.	Ostojić G., Lazarević M., Stankovski S., Ćosić I.: RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 11, pp. 759-767, ISSN 0039-2480, UDK: 658.5
8.	Popović B., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote Control of Laboratory Equipment for Basic Electronics Courses: A LabVIEW-based Implementation DOI: 10.1002/cae.20531, Computer Applications in Engineering Education, 2011, ISSN 1061-3773
9.	Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML Robot Grasping Process Improvement,Iranian Journal of Science & Technology, 2011, Vol.35, No M1, pp. 197-207, Transactions B ISSN: 1028-6284
10.	Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators,Iranian Journal of Science & Technology, Transactions B, 2012, Vol. 36, No M1, pp. 95-106, ISSN: 1028-6284

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	25			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	3	International :	4

Science, arts and professional qualifications

Name and last name:	Stefanović D. Čedomir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.06.2004
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2012		Telecommunications and Signal Processing
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK300	Digital Modulations	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	SK300	Principles of Digital Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	BM119B	Wireless sensor networks	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	BMI102	Communication Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	EK320	Principles of digital communications	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK453	SCADA Systems Design	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK459	Wireless sensor networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	ETI11	Communication systems	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	ETI33	Wireless sensor networks	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	S1328P	Principles of digital modulations	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
11.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE111S	Algorithms for Digital Signal Processing	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE512S	Human-Machine Speech Communication	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	S0152	Next Generation Telecommunication Networks	(S01) Postal Traffic and Telecommunications, Master Academic Studies
15.	SI027	Advanced IP Communications	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies

Representative refferences (minimum 5, not more than 10)	
1.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705
2.	Stefanović Č., Bajić D.: On the Search for a Sequence from a Predefined Set of Sequences in Random and Framed Data Streams, IEEE Transactions on Communications, 2012, Vol. 60, No 1, pp. 189-197, ISSN 0090-6778
3.	Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921
5.	Stefanović Č., Vukobratović D., Crnojević V., Stanković V.: A Random Linear Coding Scheme for Perimeter Data Gathering, 8. International Conference on Wireless On-demand Network Systems and Services - WONS, Bardonekija: IEEE, 26-28 Januar, 2011, pp. 142-146, ISBN 978-1-61284-188-5/11

	Representative refferences (minimum 5, not more than 10)
6.	Stefanović Č., Bajić D.: Acquisition Times of Contiguous and Distributed Marker Sequences: A Cross-Bifix Analysis, Lecture Notes in Computer Science, LNCS, 2010, pp. 55-66, 6. Sequences and Their Applications - SETA, Paris: Springer, 13-17 Septembar, 2010, pp. 55-66, ISBN 978-3-642-15873-5
7.	Bajić D., Stefanović Č.: Statistical Analysis of Search for Set of Sequences in Random and Framed Data, Lecture Notes in Computer Science, LNCS, 2010, pp. 320-332, 6. Sequences and Their Applications - SETA, Paris: Springer, 13-17 Septembar, 2010, pp. 320-332, ISBN 978-3-642-15873-5
8.	Vukobratović D., Stefanović Č., Stankovic V.: Fireworks: A Random Linear Coding Scheme for Distributed Storage in Wireless Sensor Networks, 2. IEEE Information Theory Workshop ITW, Dablin: IEEE, 30-3 Avgust, 2010, pp. 1-5, ISBN 978-1-4244-8262-, UDK: 10.1109/CIG.2010.5592800
9.	Stefanović Č., Crnojević V., Vukobratović D., Niccolai L., Chiti F., Fantacci R.: Contaminated Area Monitoring via Distributed Rateless Coding with Constrained Data Gathering, 6. ACM International Wireless Communications and Mobile Computing Conf. IWCMC, Caen: ACM, 5-8 Jul, 2010, pp. 671-675, ISBN 978-1-4503-0062-9/10
10.	Stefanović Č., Vukobratović D., Karabenč T., Rovčanin M., Crnojević V.: On Energy Efficiency of Rateless Packet Scheme for Distributed Data Storage in Wireless Sensor Networks, 7. IEEE International Conference on Wireless On-Demand Systems and Services WONS, Kranjska Gora: IEEE, 3-5 Februar, 2010, pp. 61-65, ISBN 978-1-4244-6060-1

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	57			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Stojanović M. Goran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.09.1998
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	2005	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1996	Faculty of Technical Sciences - Novi Sad	Electronics

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

	ID	Course name	Study programme name, study type
1.	E122	Introduction to Electronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EM421	Characterization and Testing of Microelectronic Circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	BM117A	Medical electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	BM117B	Flexible electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	BM118D	Modelling and simulation of biophysical proceses	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EM457	Nanoelectronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	P322	Introduction to Precision Engineering	(P00) Production Engineering, Undergraduate Academic Studies
9.	DE202S	Advanced characterization techniques of electronic materials and components	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE403S	Design and fabrication of passive micro and nano electronic components	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	EM512	Nanodevices and Nanomaterials	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	SI033	Electronics in medicine	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
15.	DE202	Advanced Techniques in Electronic Component and Material Characterization	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE403	Design and Fabrication of Passive Micro and Nano Components	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Jeranče N., Vasiljević D., Samardžić N., Stojanović G.: A Compact Inductive Position Sensor Made by Inkjet Printing Technology on a Flexible Substrate, Sensors, 2012, Vol. 12, pp. 1288-1298, ISSN 1424-8220, UDK: 10.3390/s120201288
2.	Maksimović M., Stojanović G., Radovanović M., Malešev M., Radonjanin V., Radosavljević G., Smetana W.: Application of a LTCC sensor for measuring moisture content of building materials, Construction and Buildings Materials, 2012, Vol. 26, No 1, pp. 327-333, ISSN 0950-0618(02)00045-4, UDK: 10.1016/j.conbuildmat.2011.06.029
3.	Radonić V., Palmer K., Stojanović G., Crnojević-Bengin V.: Flexible Sierpinski Carpet Fractal Antenna on a Hilbert Slot Patterned Ground, International Journal of Antennas and Propagation, 2012, Vol. 2012, No 980916, pp. 1-7, ISSN 1687-5869, UDK: 10.1155/2012/980916

	Representative refferences (minimum 5, not more than 10)
4.	Milanović M., Stojanović G., Nikolić Lj., Radovanović M., Škorić B., Miletić A.: Electrical and structural characterisation of nanostructured titania coatings deposited on interdigitated electrode system, Materials chemistry and physics, 2011, Vol. 130, No 1-2, pp. 769-774, ISSN 0254-0584, UDK: 10.1016/j.matchemphys.2011.07.061
5.	Savić S., Mančić L., Vojisavljević K., Stojanović G., Branković Z., Aleksić O., Branković G.: Microstructural and electrical changes in nickel manganite powder induced by mechanical activation, Materials Research Bulletin, 2011, Vol. 46, No 7, pp. 1065-1071, UDK: 10.1016/j.materresbull.2011.03.008
6.	Stojanović G., Lečić N., Damnjanović M., Živanov Lj.: Electrical and temperature characterization of NiZn ferrites, INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, 2011, Vol. 35, No 3, pp. 165-176, ISSN 1383-5416, UDK: 10.3233/JAE-2011-1329
7.	Goran Stojanović, Slavica Savić, Ljiljana Živanov, "Important Role of the Hall Effect Measurement System in a Modified Course of Materials in Electrical Engineering", IEEE Transaction on Education, vol. 52, no. 3, pp. 297- 304, 2009.
8.	R. Raghavendra, P. Bellew, N. Mcloughlin, G. Stojanović, M. Damnjanović, V. Desnica, Lj. Živanov, "Characterization of Novel Varistor+Inductor Integrated Passive Devices," IEEE Electron Devices Letters, vol. 25, no. 12, pp. 778-780, December 2004.
9.	G. Stojanović, "Nanoelektronika i primena nanomaterijala", Edicija tehničke nauke - Udžbenici, FTN Izdavaštvo (338), Novi Sad, 2012.
10.	G. Stojanović, Lj. Živanov, "Materijali u elektrotehnici", Edicija Tehničke Nauke - Udžbenici, FTN izdavaštvo, Novi Sad, 2007.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	78			
Total of SCI(SSCI) list papers :	22			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Stojšić Džunja M. Ljubica
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Medical Faculty in Novi Sad - Novi Sad
	01.10.2000
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2008	Medical Faculty in Novi Sad - Novi Sad	Medical Science
PhD thesis	1997	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Magister thesis	1987	Medical Faculty in Novi Sad - Novi Sad	Medical Science
Bachelor's thesis	1982	Medical Faculty in Novi Sad - Novi Sad	Medical Science

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

	ID	Course name	Study programme name, study type
1.	BMI100	Anatomy for engineers	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Marinković R, Polzović A, Gudović R, Marković Lj. Vascurarization of the corpus striatum and the claustrum in human fetuses. In: Neuron, Brain and Behaviour, ed M Bajić, Pergamon Press. Adv Biosc 1988; 70: 103-6.
2.	R. Gudović, B. Milutinović, Lj. Stojšić. Stereological analysis of the external granular layer of the human cerebellar cortex during development. In: Lažetić B, Sudakov KV, eds. Basic and clinical aspects of the theory of functional systems. Novi Sad: University of Novi Sad, Medical Faculty and P.K. Anokhin Institute of normal Physiology RAM Moscow, 1998; 275-9.
3.	Marković Lj, Gudović R, Mijatov-Ukropina Lj. Numerical density (Nv) 8 of Purkinje and granular cells of cerebellar flocculus during development. Folia Anat, 1998; 26 (suppl. 1): 39-40.
4.	Gudović R, Stojšić Lj, Mihić N, Marić D. Ratio of the granular to purkinje cells in developing human flocculus. Folia Anat 1999;27 (supp 1): 14-5.
5.	Marinković R, Polzović A, Cvejin B, Marković Lj, Budimlija Z. Distribrucija arterija u vidu vodoskoka u kori ljudskog mozga. Stremljenja i naučna dostignuća u medicini, Novi Sad: Medicinski fakultet, 1995:7-8.

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

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

Science, arts and professional qualifications

Name and last name:	Šafranj F. Jelisaveta
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.10.2000
Scientific or art field:	English

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	English
PhD thesis	2008	Faculty of Philology - Beograd	English
Magister thesis	2000	Faculty of Philology - Beograd	English
Education Specialist Thesis	1994	Faculty of Philology - Beograd	English
Bachelor's thesis	1982	Faculty of Philosophy - Novi Sad	English

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

	ID	Course name	Study programme name, study type
1.	AEJ1L	English Language - Elementary	(A00) Architecture, Undergraduate Academic Studies
2.	AEJ2L	English Language intermediate	(A00) Architecture, Undergraduate Academic Studies
3.	AEJ2Z	English intermediate	(A00) Architecture, Undergraduate Academic Studies
4.	AEJ3Z	English Language - upper intermediate	(A00) Architecture, Undergraduate Academic Studies
5.	EJ01L	English Language – Elementary	(G00) Civil Engineering, Undergraduate Academic Studies
			(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	EJ01Z	English Language - Elementary	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
			(F00) Graphic Engineering and Design, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies

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

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

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

	ID	Course name	Study programme name, study type
12.	EJ2L	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
13.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies
14.	EJ3L	English Language – Advanced	(E20) Computing and Control Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
15.	EJE5	English Language – First Certificat 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
16.	EJE6	English Language - First Certificate 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
17.	EJEI	English Language for Engineers	(H00) Mechatronics, Undergraduate Academic Studies
18.	EJEI1	English in Engineering 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
19.	EJEI2	English in Engineering 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
20.	EJF5	English Language for GRID 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
21.	EJF6	English Language for GRID 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
22.	EJGR	English Language – ESP Course	(G00) Civil Engineering, Undergraduate Academic Studies
23.	EJM	English Language – ESP Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
24.	EJPST	English Language in Postal Traffic	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
25.	EJSIT	English Language in Traffic and Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies

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

	ID	Course name	Study programme name, study type
26.	EJZ	English Language - Specialized	(Z20) Environmental Engineering, Undergraduate Academic Studies
27.	F320	English Language – ESP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
28.	F321	English Language – ESP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
29.	ISIT01	English Language 1	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
30.	ASI381	English language 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
34.	EJIIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies
			(I20) Engineering Management, Undergraduate Academic Studies
35.	ETI15	Engleski jezik - srednji	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
36.	ETI20	Engleski jezik - napredni	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
37.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
38.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies
			(ES0) Power Software Engineering, Undergraduate Academic Studies
			(F10) Engineering Animation, Undergraduate Academic Studies
			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
			(AH0) Architecture, Master Academic Studies
39.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies
40.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
41.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies
42.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies

Representative refferences (minimum 5, not more than 10)

Datum: 18.12.2012

Representative refferences (minimum 5, not more than 10)	
1.	Analiza diskursa udžbenika engleskog jezika, Monografija, Zadužbina Andrejević, Beograd 2006.
2.	Retorička organizacija poslovne vesti, Monografija, Zadužbina Andrejević, Beograd 2009.
3.	Engleski jezik za GRID 3 - Academic Writing for Graphic Engineering and Design, FTN Izdavaštvo, Novi Sad 2012.
4.	Using Internet in English Language Teaching, NEW EDUCATIONAL REVIEW, (2011), vol. 26 br. 4, str. 45-59.
5.	Reflections of English Language Teachers Concerning Computer Assisted Language Learning (Call), NEW EDUCATIONAL REVIEW, (2011), vol. 23 br. 1, str. 269-282.
6.	Pragmatički aspekt udžbenika engleskog jezika, Pedagogija, 2009, 1, str.133-145.
7.	Students' Communicative Competence, Zbornik Instituta za pedagoška istraživanja, 2009, 1, str. 180-195.
8.	Retorička analiza lida poslovne vesti, Zbornik Matice Srpske za filologiju i lingvistiku, 2011, 1, str.191-210.
9.	Some Aspects of Technical Statements in Power Engineering, Zbornik radova, XI Međunarodni simpozijum Energetska elektronika Ee 2001, str.150-153.
10.	Genre Analysis of Research Abstract of an Engineering Scientific Paper, In Proceedings of English Language and Literature Studies: Interfaces and Integrations, 10-12 December 2004, Faculty of Philology, Belgrade, pp.365-374.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	0	International :	1

Science, arts and professional qualifications

Name and last name:	Šenk I. Vojin
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1987
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1992	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK462	Entrepreneurship in ICT	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK464	Communication Systems Design	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	DE310S	Encoding and Signal Transmission Techniques	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE510S	Algorithms of Signal Detection and Estimation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK533	Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EK534	Cryptography System for Data Protection	(OM1) Mathematics in Engineering, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EK536	Coding Techniques	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	RPR004	Entrepreneurship, Innovation, Knowledge Regions - Role of Universities	(RPR) Regional Development Planning and Management, Master Academic Studies
11.	DAU001	Selected Chapters in Telecommunications and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies
			(H00) Mechatronics, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DE310	Encoding and Signal Transmission Techniques	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE510	Algorithms of Signal Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8,, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548
2.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616
3.	Vukobratović D., Šenk V.: Generalized ACE Constrained Progressive Edge-Growth LDPC Code Design , IEEE Communications Letters, 2008, Vol. 12, No 1, pp. 32-34, ISSN 1089-7798, UDK: 10.1109/LCOMM.2008.071457

	Representative refferences (minimum 5, not more than 10)
4.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, no. 7, 2004, pp. 589-593.
5.	D. Bajić, V. Šenk, M. Despotović, "Subsets of the STM-1 frame-alignment signal: a monitoring analysis", IEE Proc. Commun., vol. 149, no. 5, Oct. 2002. pp. 242-248.
6.	Miroslav Despotović, Vojin Šenk, Bartolomeu F. Uchôa Filho,"DISTANCE SPECTRA OF CONVOLUTIONAL CODES OVER PARTIAL-RESPONSE CHANNELS", IEEE Transactions on Communications, vol. 49, no.7, pp. 1121-1124, July 2001.
7.	Kovačević M., Šenk V.: On Possible Dependence Structures of a Set of Random Variables, Acta Mathematica Hungarica, 2012, Vol. 135, No 3, pp. 286-296
8.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: "Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol", Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215
9.	Bojović Ž., Šećerov E., Dobromirov D., Šenk V.: Maximizing the Profit of Telecom Telcos by a Novel Traffic Scheduling Policy , Electronics and electrical engineering, 2011, Vol. 7, No 113, pp. 67-73, ISSN 1392-1215
10.	Bojović ž., Šenk V., Dobromirov D., Bojović P.: Intervendor working of VOIP networks , Journal of the Institute of Telecommunications Professionals, 2011, Vol. 5, No 3, pp. 26-32, ISSN 1755-9278

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	141			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	3	International :	3

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

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

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

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

7. Bajić J., Stupar D., Tomić J., Slankamenac M., Joža A., Živanov M.: Implementation of the Optical Beam Profiler System Using LabVIEW Software Package and Low-Cost Web Camera, 35. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o 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:	Trpovski V. Željen
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.1985
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1991	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK435	Optical Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	EK201	Signals and Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ETI08	Telecommunication systems and signals	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
6.	S1215P	Analysis of Telecommunication signals	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	S1220P	Analysis of Telecommunication Systems	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies
13.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
			(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ispitivanje statističkih osobina digitalnog prenosa u UKT FM radio difuziji primenom sistema RDS
2.	Uniformne i neuniformne filtar banke i njihova primena u kompresiji signala slike
3.	Ž.Trpovski, "Reliability Testing Method for RDS Based on the PI Code Statistics", IEEE Trans. on Consumer Electronics, Vol.37, No.4, November 1991., pp. 884-891.
4.	Ž.Trpovski, "Contribution to window design for modulated lapped transforms", Electronics Letters, Vo.33, No. 24, November 1997, pp.2013-2014.
5.	Vesna Zeljković, A. Dorado, Ž. Trpovski, E. Izquierdo, "Classification of Building Images in Video Sequences", IEE Electronics Letters, Vol. 40, No. 3, 5th February 2004, pp. 169-170.

	Representative refferences (minimum 5, not more than 10)
6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, Vol.11, No. 7, July 2004, pp.589-592.
7.	M.Temerinac, A.Kozarev, Z.Trpovski, B.Šimšić, An Efficient Image Compression Algorithm Based on Filter Bank Analysis and Fractal Theory, Proc. of EUSIPCO-92, Sixth European Signal Processing Conference, Brussels, Vol.III, pp.1373-1376.
8.	J.Knezevic, V.Katic, Z.Trpovski, D.Graovac: "Modulated Lapped Transforms Filter Bank Technique Application For AC/DC Converter Power Quality Analysis", Power Quality Conference - PCIM-PQ 2000, Nuremberg (Germany), June 2000, published on CD-ROM.
9.	T.Lončar-Turukalo, V.Crnojević, Ž.Trpovski, Image Compression by Decomposition into Bit Planes, 5th International Conference on Telecommunications in Modern Satelite, Cable and Broadcasting Services, TELSIKS 2001, Niš.
10.	V.Zeljković, Ž.Trpovski, V.Šenk, Improved Illumination Independent Moving Object Detection in Real World Video Sequences, 4th International Conference on Video-Image Processing and Multimedia Communications, Zagreb, Croatia, July 2003.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	14			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Vojnović A. Matilda
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Medical Science

Academic carieer	Year	Institution	Field
Academic title election:	2010	Medical Faculty in Novi Sad - Novi Sad	Medical Science
PhD thesis	2001	Medical Faculty in Novi Sad - Novi Sad	Medical Science

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	BMI82B	Nutrition	(BM0) Biomedical Engineering, Undergraduate Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Matilda Vojnović, Đorđe Jakovljević, Vida Jakovljević, Milan Stanulović, Vladimir Pilija: Procena upotrebe kardiovaskularnih lekova i lekova za nervni sistem na osnovu definisane dnevne doze. Praxis Medica, 29, (1-2), 2001; str 61-69
2.	Matilda Vojnović, Đorđe Jakovljević, Vida Jakovljević, Milan Stanulović, Vladimir Pilija: Procena upotrebe antiinfektivnih lekova za sistemsku primenu na osnovu definisane dnevne doze. Praxis Medica, 2004; 32(1-2) 49-52
3.	Matilda Vojnović, Đorđe Jakovljević, Vida Jakovljević, Milan Stanulović, Vladimir Pilija: Procena upotrebe lekova za lečenje gastrointestinalnog trakta i metabolizma i lečenje oboljenja mišićnoskeletnog sistema na osnovu definisane dnevne doze. Praxis Medica, 2005; 33(1-2) 49-54
4.	Matilda Vojnović , Mira Popović, Vesna Ivetić, Aleksandar Klašnja Rezultati anketnog istraživanja među pacijentima Južnobačkog okruga Praxis Medica, 2007; Vol. 35(3-4), 69-73.
5.	Matilda Vojnović , Milan Stanulović, Vida Jakovljević, Dijana Filipović Rezultati anketnog istraživanja među lekarima primarne zdravstvene zaštite Južnobačkog okruga Praxis Medica, 2008.; Vol. 36 (3-4), 77-82
6.	Matilda Vojnović , Milan Stanulović, Vida Jakovljević, Isidora Samojlik Rezultati anketnog istraživanja među farmaceutima u državnim i privatnim apotekama južnobačkog okruga Praxis Medica, 2009, Vol. 37, (1-2), 93-98
7.	Mira Popović, Snežana Janićijević-Hudomal, Biljana Kaurinović, Julijana, Rasić, Svetlana Trivić, Matilda Vojnović : Antioxidant Effects of Some Drugs on Immobilization Stress Combined with Cold Restraint Stress . Molecules 2009, 14, 4505-4516
8.	Kolarović Jovanka, Popović Mira, Zlinska Janka, Trivić Svetlana, Vojnović Matilda Antioxidant Activities of Celery and Parsley Juices in Rats Treated with Doxorubicin (Article).
9.	Doder Radoslava, Bošković Ksenija, Stefan-Mikić Sandra, Vojnović Matilda, Doder Dragan, Sević Siniša: Assessing the differences in quality of life in patients after acute neuroinfection (Article). Healthmed, 2011, 5 , 2225-2232.
10.	Matilda Vojnović , Dijana Filipović Empowerment of patients and communication with health care professionals as a measure of the improvement of the quality of health protection in the health center „Novi Sad" Abstract Book, 14th Regional Conference, Istanbul, Wonca Europe 2008, 04 –07.09.2008.; 44.

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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456
2.	Santrač B., Sokola M., Mitrović Z., 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:	Vukobratović V. Dejan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.11.2003
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	2008	University of Novi Sad - Novi Sad	Telecommunications and Signal Processing
Magister thesis	2005	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Bachelor's thesis	2001	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	BM119B	Wireless sensor networks	(BM0) Biomedical Engineering, Undergraduate Academic Studies
2.	BMI102	Communication Systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	EK200	Development Tools for Communications and Signal Processing 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK203	Modelling and Simulation of Communication Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK321	IP technology	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	ETI21	Communication Protocols	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
7.	ETI23	Wireless Communications	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	ETI31	Video Technology	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
9.	S1329P	Introduction to Communication Networks	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
10.	DE414S	Modern Coding Theory	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE514S	Multimedia Processing and Communications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	S0152	Next Generation Telecommunication Networks	(S01) Postal Traffic and Telecommunications, Master Academic Studies
13.	SI015	Integrated Services Digital Network (ISDN)	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
14.	SI016	Advanced ISDN Networks	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
15.	SI027	Advanced IP Communications	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
16.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
17.	DE414	Modern Coding Theory	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
18.	DE514	Multimedia Processing and Communications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vukobratović D., Stanković V., Sejdinović D., Fagoonee-Stankovic L., Xiong Z.: Scalable Video Multicast Using Expanding Window Fountain Codes, IEEE Transactions on Multimedia, 2009, Vol. 11, No 6, pp. 1094-1104, ISSN 1520-9210, UDK: 10.1109/TMM.2009.2026087
2.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705

	Representative refferences (minimum 5, not more than 10)
3.	Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921
5.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616
6.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8,, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548
7.	Dejan Vukobratovic, Vojin Senk: "Generalized ACE Constrained Progressive-Edge-Growth LDPC Code Design", IEEE Communications Letters, Vol.12, No.1, pp. 32-34, January 2008.
8.	Stefanović Č., Vukobratović D., Stanković V., Fantacci R.: Packet-centric approach for distributed sparse-graph coding in wireless ad-hoc networks, Ad Hoc Networks, 2012, ISSN 1570-8705
9.	Vukobratović D., Vladimir S.: Unequal Error Protection Random Linear Coding Strategies for Erasure Channels, IEEE Transactions on Communications, 2012, Vol. 60, No 5, pp. 1243-1252
10.	Vukobratović D., Clavier L., Matthias W., Werner T., Andreas C., Kimmo K.: Adaptive Coding, Modulation and Signal Processing - in Pervasive Mobile and Ambient Wireless Communications, Heidelberg, Springer, 2012

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	0	International :	2

Science, arts and professional qualifications

Name and last name:	Zuković M. Miodrag
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.12.1995
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2000	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Mechanics

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

	ID	Course name	Study programme name, study type
1.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
2.	M103	Mechanics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
3.	M107	Mechanics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
4.	M201	Mechanics 3	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
5.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
6.	M4301	Computer Methods in Mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies
			(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
			(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	BMI127	Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies

List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
10.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
11.	M45021	Computer Methods in Mechanics 2	(M40) Technical Mechanics and Technical Design, Master Academic Studies
12.	DTM01	Computer Methods in kinematics and dynamics of mechanical systems	(M40) Technical Mechanics, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Zukovic, M. and Cveticanin, L.: Chaotic Responses in a Stable Duffing System of Non-ideal Type, Journal of Vibration and Control, 2007, Vol. 13, No. 6, str. 751- 767, ISSN 10775463.
2.	Zukovic,M., Cveticanin,L., Chaos in non-ideal mechanical system with clearance, Journal of Vibration and Control , 15(8): 1229–1246, 2009
3.	Miodrag Zuković, TORZIONE PARAMETARSKE OSCILACIJE CILINDRIČNOG ZUPČASTOG PARA SA EVOLVENTNIM OZUBLJENJEM, Magistarska teza, Novi Sad, 2000.
4.	Zuković,M., NELINEARNE TORZIONE OSCILACIJE U ZUPČASTIM PRENOSNICIMA, VII Međunarodna konferencija fleksibilne tehnologije MMA 2000, Novi Sad, 08.juna 2000.
5.	Zuković, M., Radomirović, D. Kuzmanović, S.: Analiza uticaja rasporeda zupčanika na dinamiku dvostepenog reduktora, Drugi skup o konstruisanju, oblikovanju i dizajnu KOD 2002, Novi Kneževac, Maj 2002, str. 141-144.
6.	Radomirović, D., Zuković. M., Gligorić, Radojka: Uticaj ubrzanja, nagiba i mase prikolice na kretanje traktora, Traktori i pogonske mašine, Vol.7, No.4, Novi Sad, Decembar, 2002, str.57-61.
7.	Zuković, M., Radomirović, D. Rakarić, Z.: Nelinearne oscilacije u mehaničkim sistemima sa zazorom, VIII MEĐUNARODNA KONFERENCIJA FLEKSIBILNE TEHNOLOGIJE, MMA 2003., Novi Sad, Srbija i Crna Gora, 26-27. Jun 2003.
8.	Radomirović, D., Maretić, R., Zuković. M.,: UNUTRAŠNJE KOORDINATE RAVANSKIH KRIVIH U MEHANICI, Letopis naučnih radova, Godina 27(2003), broj 1, strana 119-127
9.	Radomirović, D., Gligorić, Radojka, Zuković. M.,: Kretanje traktora sa jednoosovinskom prikolicom, Traktori i pogonske mašine, Vol.8, No.4, Novi Sad, Novembar, 2003, str.124-129.
10.	M. Zuković and Z. Rakarić : Steady state vibration of mechanical system with electric motor and nonlinear spring, Book of Abstracts, The First International Conference on COMPUTATION MECHANICS, Belgrade (CM'04), Serbia and Montenegro, November, 15-17, 2004., 31

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanics

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

	ID	Course name	Study programme name, study type
1.	GG15	Strength of Materials	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG410	Selected Chapters in the Theory of Elasticity	(G00) Civil Engineering, Undergraduate Academic Studies
3.	H112	Mechanics 1 – Fundamentals	(H00) Mechatronics, Undergraduate Academic Studies
			(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	H201	Mechanics 2 - General	(H00) Mechatronics, Undergraduate Academic Studies
5.	H202	Strength of materials	(H00) Mechatronics, Undergraduate Academic Studies
6.	H303	Mechatronics 3 – Further Chapters	(H00) Mechatronics, Undergraduate Academic Studies
7.	M204	Strength of Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
			(M30) Energy and Process Engineering, Undergraduate Academic Studies
			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
			(P00) Production Engineering, Undergraduate Academic Studies
8.	M4302	Biomechanics and mechanics of sport	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	M4306	Similarity and dimensional methods	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	BMI128	Continuum Biomechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44061	Optimization of mechanical systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M4504	Thermal Elasticity	(M40) Technical Mechanics and Technical Design, Master Academic Studies
14.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
15.	M45991	Biomechanics of cardiovascular system	(M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
17.	DM801	Biomedical mechanics	(M40) Technical Mechanics, Doctoral Academic Studies
18.	DTM02	Theory of impact	(H00) Mechatronics, Doctoral Academic Studies
			(M00) Mechanical Engineering, Doctoral Academic Studies
			(M40) Technical Mechanics, Doctoral Academic Studies
			(S00) Traffic Engineering, Doctoral Academic Studies
19.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
20.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	N. M. Grahovac, M. M. Zigic: Modelling of the hamstring musle group by use of fractional derivatives, Computers and Mathematics with applications, Vol. 59, Issue 5 (2010), 1695-1700.

Representative refferences (minimum 5, not more than 10)	
2.	N. Grahovac., M. Žigić, D. Spasić, On impact scripts with both fractional and dry friction type of dissipation, International Journal of Bifurcation and Chaos, Vol. 22, No 4 (2012), 1250076 (10 pages).
3.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180, UDK: 531/534(082), ISBN 978-86-909973-0-5.
4.	M. M. Žigić, N. M. Grahovac and D. T. Spasić: A simplified earthquake dynamics of a column like structure with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 165- 172, UDK: 531/534(082), ISBN 978-86-909973-0-5.
5.	Grahovac N., Žigić M: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008.
6.	M. M. Zigic, Viscoelastic response of the human hamstring muscle during a ramp-and-hold type of experiment, 2nd International Congress of Serbian Society of Mechanics, Palic: Serbian Society of Mechanics, 01-05 June, 2009, str. 165-173, UDK: 531/534(082), ISBN 978-86-7892-173-5.
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010
8.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)
9.	Bačlić B., Žigić M., Phase spaces of rheonomic energy-like conservation laws, 25th Yugoslav Congress on Theoretical and Applied Mechanics, 1-3 June, 2005.
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov`s Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	5			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Živanov D. Ljiljana
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.03.1976
Scientific or art field:	Electronics

Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Electronics
PhD thesis	1989	School of Electrical Engineering - Beograd	Electronics
Magister thesis	1980	School of Electrical Engineering - Beograd	Electronics
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	E222A	Electronics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	EM303	Microelectronics	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	H110	Materials in Electrical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	BM117C	MEMS and NEMS	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	BMI107	Materials and fabrication technologies in medical devices	(BM0) Biomedical Engineering, Undergraduate Academic Studies
			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	DE101S	Contemporary microelectronic technologies and materials	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE502S	Micro-sensors and MEMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EM517	Modeling and Simulation of Semiconductor Components	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	SI014	Microelectronic technologies	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
12.	SI024	Application of Sensors and Actuators	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	BMIM1D	Application of MEMS and NEMS in biomedicine	(BM0) Biomedical Engineering, Master Academic Studies
14.	EM519	Sensors, actuators, MEMS and NEMS	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	DE101	Contemporary Microelectronic Technologies and Materials	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
16.	DE502	Micro-sensors and MEMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	R. Raghavendra, P. Bellew, N. Mcloughlin, G. Stojanović, M. Damnjanović, V. Desnica, Lj. Živanov, "Characterization of Novel Varistor+Inductor Integrated Passive Devices," IEEE Electron Devices Letters , vol. 25, no. 12, pp. 778-780, 2004.
2.	G.Stojanović, M. Damnjanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. Mcloughlin, "High performance zig-zag and meander inductors embedded in ferrite material," Journal of Magnetism and Magnetic Materials, vol. 297/2, pp. 76-83, 2006.
3.	M.Damnjanović, G. Stojanović, Lj. Živanov, V. Desnica, "Comparison of different structures of ferrite EMI suppresors," Microelectronics International, vol. 23, no. 3, pp. 42-48, September 2006.

	Representative refferences (minimum 5, not more than 10)
4.	M.Damnjanović, G. Stojanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. Mcloughlin, "Analysis, design and characterization of ferrite EMI suppressors," IEEE Transactions on Magnetics (impact factor: 0.837), vol. 42, no. 2, pp. 270-277, 2006.
5.	G. Stojanović, Lj. Živanov, "Novel efficient method for inductance calculation of inductors with optimized layout," International Journal of RF and Microwave Computer-Aided Engineering, vol. 16, no. 5, pp. 463-469, September 2006
6.	V. Desnica, Lj. Živanov, O. Aleksić, "The modeling and design of symmetrical thick film EMI/EMC cells", Studies in Applied Electromagnetics and Mechanics: Electromagnetic Fields in Electrical Engineering, vol. 22, pp. 395-400, IOS Press, Amsterdam, 2002
7.	V. Desnica, Lj. Živanov, M. Nimrihter, O. Aleksić, M. Luković: "A Comparative Characteristics of Thick Film Integrated LC Filters", IEEE Transactions on Instrumentation and Measurement - IMTC Special Issue, Vol. 51, No. 4, pp. 570-576,
8.	V. Desnica, Lj. Živanov, O. Aleksić, S. Jenei: "Modeling and optimization of thick film solenoid-bar type inductors and transformers", COMPEL (Computation and Mathematics in Electrical and Electronic Engineering), Vol. 19, No. 2, pp. 615-621, 2000
9.	P.M.Nikolić, M.B.Pavlović, Z.Maričić, S.Djurić, Lj.Živanov, D.Samaras, G.A.Gledhill, "Low temperature far-infrared complete reflectivity spectra of single crystal Ba hexaferrite", Infrared Physics, vol. 33, No.5, Pergamon Press, G.B., pp.401-408, 1992
10.	P.M.Nikolić, Lj.D.Živanov, O.S.Aleksić, D.Samaras, G.Gledhil, J.Collins: "Far infrared optical properties of single crystal Ba- and Sr- hexaferrite", Infrared Physics, Vol.30,

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	48			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	1	International :	3

Science, arts and professional qualifications

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

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

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

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

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

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

Standard 10.   Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources adequate for the study programme features and predicted students' number are provided. The time table of the Biomedical Engineering study programme is organized in two shifts.Teaching is done in lecture halls, classrooms and specialized laboratories. 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. There is a perennial positive practice of interviewing students throughquestionnaire.

The quality control of the study programme is performed through following activities:

1.Interviewingstudents by questionnaire at the end of the lectures for the given course,

2.interviewing graduated studentsby questionnaire about study programme quality logistic support and studying comfort (cleanness and order in classrooms, etc.) to the studies at the diploma awardingceremony

3.interviewing students by questionnaire about evaluation of logistic support to the studies at thecertification of the study year

4.interviewing students by questionnaire when enrollingto the year of study.Students assess study programme of the previously completed school year

5.interviewing lecturing andnon-lecturing staff by questionnaire about quality of the study programme and logistic support to the studies.

For monitoring study programme quality commission is formed by department representatives participating in the realization of the study programme, and one student from each year.

Standard 12.   Distance Education

Distance learning is not provided in this study programme.