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

MECHATRONICS

UNDERGRADUATE ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Programme name	Mechatronics
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, professional or art field	Mechatronics: Electrical and Computer Engineering; Mechanical Engineering
Type of studies	Undergraduate Academic Studies
Study scope, expressed in ECTS	240
Academic degree, abbreviation	Bachelor with Honours in Mechatronics, B.Mechatron.
Study length	4
Programme implementation starting year	2005
Future course implementation starting year (for new programme)	
Number of students attending this programme	172
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	2008
Web address containing programme information	http://www.ftn.uns.ac.rs



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 00. Introduction

The study programme for the Undergraduate Academic Studies in Mechatronics is the first interdisciplinary study programme at the Faculty of Technical Sciences, University of Novi Sad in organization of the Department of Industrial Engineering and Management, which is parent department for this study program. In addition to the parent department, lectures are performed also by teachers and staff from the following departments: Department of Power, Electronic and Telecommunication Engineering, Department of Computing and Control Engineering, Department of Mechanization and Design Engineering, Department of Technical Mechanics, Department of Fundamental Science, Department of Environment Engineering and Safety at Work and Department of Production Engineering.

Traditional division into scientific and educational disciplines (e.g. Mechanical and Power Engineering) led to misunderstanding between engineers of various fields when working jointly in the same project, as well as to insufficient knowledge of various fields in realization of complex systems nowadays present in practical work. Engineers of different fields when discussing a problem do not "speak the same language". Each field recognizes dominantly only their aspects. Since power and mechanical systems become more and more numerous, complex and sophisticated, during their creation beside having knowledge of Mechanical and Power Engineering, it is also required to have knowledge of management and programming.

Therefore, in terms of education, Mechatronics should be considered as a study programme created to meet the real needs in practical work. This study programme will enable students to additionally acquire their knowledge based on understanding of fundamental physics principles in various fields of engineering, to acquire professional knowledge for realization of contemporary engineering systems, to acquire ability to integrate knowledge required for each individual case and to be introduced to scientific and research work.



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Standard 01. Programme Structure

The name of this study programme of undergraduate academic studies is Mechatronics. Academic name acquired is Engineer of Mechatronics. The outcome of the study process is knowledge which enables students to use professional literature, to solve professional problems and to continue studies if students choose to do so.

A candidate to be enrolled must have completed four-year secondary school. Application procedures, grading and registration of candidates, as defined in the Regulations of enrollment in approved study programs at the faculty level.

The undergraduate study programme in Mechatronics lasts four years and there are two study groups: Mechatronics, robotics and automation, and Mechatronics in mechanization. The first three years are the same for both study groups and then according to their interests students choose one of the two study groups.

Lectures are realized through lectures and practical classes. During education process emphasis is placed on independent and research student work, as well as on their personal involvement in the process. During lectures, modern didactic tools are used for presenting subject content and students are informed about research trends in the field. During practical classes, which follow the lectures, actual exercises and problems are solved and appropriate examples are presented. Also additional explanations of the subject content are offered in practical classes. Practical classes can be auditory, laboratory and computer. Partially practical classes can be realized in factories and other institutions.



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Standard 02. Programme Objectives

The purpose of the study programme is set in accordance with the needs of the society. Undergraduate study programme in Mechatronics is set so that it enables students to acquire competences socially justifiable and purposeful. The Faculty of Technical Sciences has clearly defined educational assignments and objectives for highly competent experts in the field of technical engineering. The aim of the study programme – Mechanics is completely in accordance with the Faculty of Technical Sciences objectives.

Realization of such a study programme creates experts in the field of Mechatronics competent in European and global standards and in accordance with social needs.



Study Programme Accreditation

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Standard 03. Programme Goals

The objective of the undergraduate academic studies in Mechatronics is acquiring competences and academic skills in the field of Mechatronics. In addition, this programme will provide graduates with practical skills, as well as form and develop competences necessary for critical thinking and team work and acquiring specific practical skills necessary for the profession.

The objective of the study programme of undergraduate academic studies in Mechatronics is to educate and form highly qualified experts able to perform tasks in production technologies and designing contemporary production process.

In addition, this programme will provide graduates with practical skills, as well as form and develop competences necessary for the technical sciences. The objective of this study programme is also education of experts in team working as well as development of abilities of presentation of results to professional public.



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Standard 04. Graduates' Competencies

Having completed the undergraduate academic studies in Mechatronics, a student acquires general and subject-specific abilities in the function of qualitative performance of professional, scientific and artistic activities. Having completed this study programme, a student acquires the following general abilities:

- Ability to analyse, generate and anticipate consequences,
- Ability of critical thinking,
- Ability to solve problems by applying scientific methods and procedures

Student acquires thorough knowledge and understanding of all disciplines of the selected study group, as well as skills for solving actual problems with utilization of scientific methods and procedures. Students at the Mechatronics are capable to write and present in an appropriate way the results of their work. Utilization of information and communication technologies is insisted upon.

The students at this level have competencies for following and application of novelties in the line of profession, as well as for cooperation with local social and international environment.

The students are enabled to design, organize and manage production. During education process student is enabled to independently conduct experiments, for statistical data processing as well as to formulate and reach appropriate results.

Upon graduation, student acquires knowledge to economically use natural resources of the Republic of Serbia in accordance of principles of sustainable development.

Special attention is paid to skill development for team work and professional ethics.



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Standard 05. Curriculum

The curriculum of the Undergraduate Academic Studies in Mechatronics is made to meet the set goals. The structure of the study programme provides approximately 15% of academic-educational, 20% of theoretical-methodological, 35% of scientific-professional and 30% of professional-applicative courses. It is also enabled that elective courses are to be presents in 20% of ECTS credits. Apart from this classification, the courses taught at these studies can be divided into the following groups:

- the group of general engineering courses (mathematics, mechanics),
- the group of electrical engineering courses,
- the group of control engineering courses,
- the group of mechanical engineering courses,
- the group of computer sciences courses,
- the group of courses dealing with programming and application of programme packages (for CAD, SCADA, CAP, simulations, etc)
- the group of management courses.

All courses last one semester and are worth a certain number of ECTS credits. The schedule of courses in the study programme is such that the knowledge necessary for subsequent courses is obtained in previously held courses.

The curriculum defines every course of the study programme which states the following: the course name, type, the year and semester when the course is lectured, the number of ECTS credits, the name of the lecturer, the course objective with the expected outcome, the knowledge and competences the student will acquire, the prerequisites for taking the course, the course content, the recommended literature, the methods of lecturing, the knowledge tests and evaluation, and other data.

The study programme is created in accordance with the European standards concerning the enrolment requirements, the duration of studies, the terms of enrolling into the next year of studies, the acquisition of a diploma and the mode of study.

Professional practice-practical work is the integral part of the curriculum of the undergraduate academic studies in Mechatronics and it lasts for 60 hours and is realized in the adequate companies, scientific-research institutions, in organizations dealing with innovation activities, in organizations providing infrastructure support to innovation activities, in industrial associations and public facilities.

The student completes the studies by writing the Bachelor paper which consists of the theoretical and methodological preparation necessary for deeper understanding of the field of the paper and the elaboration of the Bachelor paper.

Before the defence of the paper, the candidate has to pass the theoretical-methodological bases, usually in front of the supervisor. The final grade of the paper is derived from the grade in theoretical-methodological preparations and the grade in the elaboration and defence of the paper. The Bachelor paper is presented and defended in front of the committee formed in accordance with the quality system and general regulations of the Faculty.

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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Table 5.2 Course specification

Course:		Physics			
Course id: H101					
Number of ECTS: 5					
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	0	2	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 and conservation laws. Special theory of relativity. Basics of electrostatics. Electric field and potential. Conductors and dielectrics in an electric field. Electricity. Direct current. Modern theory of conductivity. Semiconductors. Electromagnetism. The magnetic field of electricity. Electromagnetic induction. AC electricity. The magnetic field in materials; diamagnetism, paramagnetism, ferromagnetism. Wave motion and acoustics. Wave equation. Doppler effect. Power and volume of the sound. The absorption of sound. Ultrasound. Optics. Basic laws of geometric optics. Optical instruments. Wave optics. Interference, diffraction, dispersion and polarization of light. Laws of black body radiation. Photoeffect. Lasers. 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
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	2002
2,	M. Vučinić-Vasić, D. Čirić, T. Škrbić, M. Đurić	Zbirka zadataka iz fizike		Fakultet tehničkih nauka u Novom Sadu	2005
3,	Lj. Budinski-Petković, M. Vučinić-Vasić, D. Ilić	Praktikum laboratorijskih vežbi iz fizike			2005



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Fundamentals in Product Development			
Course id:	H102				
Number of ECTS:	6				
Teachers:		Borovac A. Branislav, Dudić P. Slobodan, Kozak V. Dražen, Ivandić I. Željko			
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:					
Enabling students for activities, tasks and skills necessary to a product and services manager.					
2. Educational outcomes (acquired knowledge):					
After the course and final exam, student will be able to understand definition and essence of product and product programme. Additionally, directions and structure of product manager activities, with special focus on: product planning, product life cycle, changes to the existing products, development of new products, basic characteristic of products (quality,design, brand, style, ecological and ergonomic features), services to clients, prices, product range, differentiating, promotion and distribution.					
3. Course content/structure:					
Definitions and fundamental product features. Product manager, role and activities, Concept of product lyfe cycle, systematic approach to product development. Management of changes in existing products. Transition from customers requirements to the procut. Decision making in releation to product price, product presentation, product distribution and distribution channel characteristics. Users services.					
4. Teaching methods:					
Auditory lectures which expand solving managerial problems. Both lectures and practical classes include numerous practical examples.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Graphic paper		Yes	10.00	Practical part of the exam - tasks	Yes 50.00
Graphic paper		Yes	15.00		
Homework		Yes	25.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Radojka Gligorić, Zoran Milojević	Tehničko crtanje - inženjerske komunikacije		Univerzitet u Novom Sadu, ISBN 86-499-0131-X	2004



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Mathematics 1				
Course id:	H103					
Number of ECTS:	6					
Teachers:	Ralević M. Nebojša, Nikolić M. Aleksandar					
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:						
Enabling students for abstract thinking and acquisition of new knowledge in Algebra and Mathematical Analysis.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge is used in further education and in professional courses by making and solving mathematical models in professional courses using the knowledge in Algebra and Mathematical analysis.						
3. Course content/structure:						
Theoretical lectures: The field of real and complex numbers. Polynomials and rational functions. Matrix and determinants. Systems of linear equations. Vectors. Analytic Geometry in R^3 . Number series. Practical lectures (Practice): Adequate examples from theoretical lectures are done during practice, thus exercising the knowledge from the lectures. Practice contributes to the better understanding of the taught knowledge.						
4. Teaching methods:						
Lectures; Numerical – computer Practice. Consultations. Lectures are combined. Theoretical part is followed by adequate examples which contribute to the clarification of the theoretical part. Computer practice accompanies lectures, and typical problems are solved and lectured knowledge is deepened. Besides lectures and practice, consultations are held on the regular basis. Part of the course, which represents a logical whole, may be passed during the teaching process in the form of 2 parts (part one: Field of real and complex numbers; polynomials and rational functions; matrix and determinants; systems of linear equations; part two: Vectors. Analytic geometry in R^3 . Number series and arrays.) Oral and written part of the final examination is eliminatory.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam		Yes 30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks		Yes 40.00
Test		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Kovačević I., Ralević N.	Matematička analiza 1 (uvodni pojmovi i granični procesi).		Symbol, Novi Sad		2007
2,	Nikić J., Čomić L.	Matematika 1		Fakultet tehničkih nauka, Symbol, Novi Sad		2001
3,	Ralević N. M.	Zbirka rešenih ispitnih zadataka iz Matematike 1		Symbol, Novi Sad		2005



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	Mechatronics	

Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering 1			
Course id:	H104				
Number of ECTS:	4				
Teacher:		Đurić M. Nikola			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:		Other classes:
2	2	1	0		0
Precondition courses		None			
1. Educational goal:					
Course objective is to introduce students to the terminology of electrical engineering, the basic physical laws of electrostatics and to enable students to solve electric circuits of time constant currents. Students are also trained for the calculation of basic parameters of the consumer in such networks, resistors and capacitors.					
2. Educational outcomes (acquired knowledge):					
Students who successfully master the course will be able: -to calculate the capacitance of a simple homogeneous symmetric structure (e.g. coaxial cable with several layers of dielectrics) -to calculate the resistance of homogeneous multilayer structure - to solve simple electric circuit of time constant current - to calculate the maximum power of elements in the network and protect them from burning out					
3. Course content/structure:					
Definition of electric field and electrostatic field. The electric field vector. Gauss's law. Voltage and electric field potential. Dielectrics and conductors in electrostatic field. Boundary conditions. Capacitance and capacitors. Energy and forces in electrostatic field. Vector current density. The intensity of the electrical current. Kirchhoff's law. Ohm's law and resistors. Serial and parallel connection of resistors. Joule's law. Generators and their characteristics. Simple circuit. Solving electrical networks. Some of the theorem of electrical networks.					
4. Teaching methods:					
Lectures are held with occasional video presentations. Inductive method is applied in the lectures. Student knowledge is formed based on many little examples, which grows into engineering intuition over time.					
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,	Dr Neda Pekarić-Nadž, Dejana Herceg	"Osnovi elektrotehnike za računarstvo"		Fakultet tehničkih nauka, Novi Sad	2001
2,	Prša Miroslav, Juhas Laslo	"Osnovi elektrotehnike - Zbirka zadataka za studente neelektrotehničkih fakulteta"		Fakultet tehničkih nauka, Novi Sad	2001



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Fundamentals in Computer science			
Course id:	H105				
Number of ECTS:	4				
Teachers:		Stankovski V. Stevan, Ostojić M. Gordana, Jovanović M. Vukica, Kozak V. Dražen, Ivandić I. Željko, Heraković S. Niko			
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:					
The goal of the subject is acquiring basic knowledge in the field of computer science.					
2. Educational outcomes (acquired knowledge):					
The outcomes of the subject are knowledge and skills necessary for understanding and designing basic digital circuits, that are fundamental elements of computers, as well as acquiring skills needed for work on a computer (text editors, work with tables).					
3. Course content/structure:					
Introductory considerations. Mathematical foundations of computers. Logical basis of the computer. Computer architecture. Machine representation of data. The principles of computer organization.					
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,	Danilo Obradović	OSNOVE RAČUNARSTVA			1998
2,	Branko Perišić	OSNOVE RAČUNARSTVA, Metodička zbirka zadataka I, Matematičko logičke osnove rada računara			2000
3,	Branko Perišić, Dragan Ivetić	OSNOVE RAČUNARSTVA, Metodička zbirka zadataka II. Programabilni automati			2000



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Table 5.2 Course specification

Course:		Materials in Mechanical Engineering			
Course id:	H106				
Number of ECTS:	4				
Teacher:	Gerić D. Katarina				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	2	0	0	
Precondition courses		None			
1. Educational goal:					
To enable students for abstract thinking and acquiring basic knowledge in the field.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge is used in the profession, in the individual work, and in further education.					
3. Course content/structure:					
Materials in mechatronic environment – classification, basic notions, crystal and micro structure, physical and chemical properties. Paper. Production of paper, cardboard, paperboard: obtaining raw materials, preparing paper mass, producing paper, classifying paper and cardboard, researching methods. Supplementary materials for the production of paper, cardboard and paperboard – fillings, sizing agents, and colorants. Paper improvements – impregnation, coating and varnishing. Dyeing paper, cardboard and paperboard. The most important properties of paper, cardboard and paperboard and research. Surface properties – smoothness, dust, hardness (plucking resistance). Optical properties of paper – whiteness, transparency, opacity, shininess and colour. Chemical properties – pH and determining the filling content. Printing inks: types, content, role of components and printing properties. Relation colour – substrate and classification of printing inks according to purpose. Production and investigation methods of general properties significant for the application in the printing industry. Glues in printing industry and methods of investigating their properties. Polymeric materials in graphic engineering: application, modelling and researching the basic properties. Packaging materials: Sheet steel: characteristics, physical and chemical investigations on the sheet steel quality, sheet steel dyeing. Textile: characteristics, physical and chemical properties, dyeing. Bookbinder's board. Leather as a graphic material – leather covering. Ceramics as a graphic material: application, modelling, dyeing and investigating the basic properties. Rubber as a graphic material: application, modelling and investigating the basic properties.					
4. Teaching methods:					
Teaching is held interactively as lectures and laboratory practice. During lectures, the theoretical part of the teaching content is presented and supplemented by characteristic examples for better understanding. During laboratory practice, the obtained knowledge is practically applied on the available laboratory equipment. Apart from lectures and practice, consultations are held regularly.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Coloquium exam	No 20.00
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 70.00
Term paper		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	L. Šidanin, K. Gerić	Mašinski materijali I - sveska 1			2007
2,	L. Šidanin, K. Gerić	Mašinski materijali I - sveska 2			2007
3,	L. Šidanin, K. Gerić	Mašinski materijali I - sveska 3			2007



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Mathematics 2				
Course id:	H107					
Number of ECTS:	6					
Teacher:	Ralević M. Nebojša					
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:						
Enabling students for abstract thinking and acquisition of basic knowledge in mathematical analysis.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge is used in further education and in professional courses. The student makes and solves mathematical models in professional courses using the knowledge from mathematical analysis.						
3. Course content/structure:						
Theoretical lectures: Limits and continuity of a function. Derivatives. The basic theorem. Taylor and McLoren`s polynomials and series. Indefinite and definite integrals. Improper integral. Practice: Adequate examples from theoretical lectures are done during practice, thus practicing and contributing to the better understanding of the matter taught.						
4. Teaching methods:						
Lectures; Numerical-computing practice. Consultations. Lectures are combined. Presentation of theoretical part is followed by adequate examples contributing to the clarification of the theoretical part. During computing practice, which accompanies lectures, typical problems are solved and the knowledge from the lectures is deepened. Besides practice and lectures, consultations are held on the regular basis. Part of the course, which represent a logical whole, may be taken during the teaching process in the form of two parts (par one: limits and continuity of the function; derivatives; Taylor and McLoren polynomials and series; part two: Indefinite, definite and improper integrals). Oral and written part of the final examination is eliminatory.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes	30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Test		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Kovačević, N. Ralević	Matematička analiza 1 (uvodni pojmovi i granični procesi)		Symbol, Novi Sad		2007
2,	I. Kovačević, V. Marić, M. Novković, B. Rodić	Matematička analiza 1		Symbol, Novi Sad		2007
3,	N. M. Ralević	Zbirka rešenih ispitnih zadataka iz Matematike II		Symbol, Novi Sad		2005



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Table 5.2 Course specification

Course:		Fundamentals of Electrical Engineering 2					
Course id:	H108						
Number of ECTS:	5						
Teacher:		Đurić M. Nikola					
Course status:		Mandatory					
Number of active teaching classes (weekly)							
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:	
2		2	1	0		0	
Precondition courses							
None							
1. Educational goal:							
Course objective is to introduce students to electromagnetic terminology, to basic physics laws of electromagnetics and to enable students to solve electric circuits of time-varying currents. In addition to solving simple networks of sinusoidal currents, the objective is to enable students to solve symmetrical three-phase networks. Students are trained to be able to calculate the basic parameters of the consumer in such networks, resistors, coils and capacitors							
2. Educational outcomes (acquired knowledge):							
Students who successfully complete the course will be able: -to calculate magnetic field of simple symmetrical structures - to calculate the inductance of simple structure with the coils - to solve simple electrical and magnetic circuits with sinusoidal currents - to calculate current, active, reactive and apparent power of the elements in the network and improve power factor in single-phase and symmetrical three-phase networks							
3. Course content/structure:							
Magnetic induction vector. Bio-Savart law. Magnetic flux. Apmer's law. Substance in a magnetic field. Magnetic properties of materials. Ferromagnetic materials. Boundary conditions. Magnetic circuits. Electromagnetic induction. Faraday's law. Lenz's law. Eddy currents. Skin effect and proximity effect. Self and mutual inductance. Energy and forces in the magnetic field. Some examples of electromagnetic induction. Kirchhoff laws in networks with time-varying currents. Electrical circuit with sinusoidal voltages and currents. Impedance. Power in networks with sinusoidal currents. Solving the electric systems in complex domains. Power factor improvement. Simple resonant circuits, Coupled circuits, Symmetrical three-phase systems.							
4. Teaching methods:							
Lectures are held with occasional video presentations. Inductive method is applied in lecturing. Based on a number of little examples, student knowledge is formed and it grows into engineering intuition over time.							
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,	Dr Neda Pekarić-Nadž, Dejana Herceg		“Osnovi elektrotehnike za računarstvo”		Fakultet tehničkih nauka, Novi Sad		2001
2,	Miroslav Prša, Laslo Juhas		“Osnovi elektrotehnike - Zbirka zadataka za studente neelektrotehničkih fakulteta”		Fakultet tehničkih nauka, Novi Sad		2001



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Table 5.2 Course specification

Course:		Fundamentals in Programming				
Course id:	H109					
Number of ECTS:	6					
Teachers:		Stankovski V. Stevan, Ostojić M. Gordana, Jovanović M. Vukica, Kozak V. Dražen, Ivandić I. Željko				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
3		0	2	0		2
Precondition courses						
1. Educational goal:						
The goal of the course is acquisition of knowledge and skills in contemporary techniques of programming and algorithmic problem description.						
2. Educational outcomes (acquired knowledge):						
The outcome of the subject is understanding programming techniques and algorithmic problem description.						
3. Course content/structure:						
Information, data, processing and presentation of data, algorithm. The concept of the program system and the areas of computer applications. Algorithmic procedure of data processing in solving engineering problems. Operating systems and techniques used. Introduction to computer networks and the techniques of using computer networks. Internet services and techniques for their use. Programming techniques through one, visually oriented third generation language.						
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,	Danilo Obradović	OSNOVE RAČUNARSTVA				1998



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Table 5.2 Course specification

Course:		Materials in Electrical Engineering			
Course id:	H110				
Number of ECTS:	5				
Teacher:	Živanov D. Ljiljana				
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:					
Acquiring basic knowledge in the field of contemporary materials used in electrical engineering as well as measuring techniques for determining their electrical, optical and magnetic properties.					
2. Educational outcomes (acquired knowledge):					
- ability to determine specific resistivity of semiconductors by four point method					
- ability to determine type of the semiconductor and its other properties using the Hall method					
-ability of practical application of Hall methods in electrical engineering (Hall's sensor, current measuring on PCB)					
3. Course content/structure:					
Basic properties and classification of materials in electrical engineering. Crystal structures. Imperfections inside crystals. Energy gap, carrier concentration, the type of admixtures, transport phenomena. Engineering of the energy gap. Semiconductors (main representatives: Si, Ge, GaAs). The application of semiconductors according to the size and nature of the energy gap. Characterization methods of semiconductors (four point method, the Hall method). Techniques of crystal growth and application of the thin film. Conductors: (basic properties, representatives, thermoelectric effect). Dielectrics (basic properties, relative dielectrical constant). Materials for electronic housing. Optical properties of crystals (absorption and emission processes of light, displays). Magnetic properties of crystals (diamagnetism, paramagnetism, ferromagnetism). Soft and hard magnetic materials. Magnetic devices and applications (magnetic recording, magnetic-optical effect, nuclear magnetic resonance). Properties of superconductors. Application of superconductors (Josephson circuit, high-temperature superconductors)					
4. Teaching methods:					
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 70.00
Lecture attendance		Yes	5.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Goran Stojanović, Ljiljana Živanov	Materijali u elektrotehnici		FTN Izdavaštvo	2007
2,	G. Stojanović, Lj. Živanov, A. Marić, G. Radosavljević	Materijali u elektrotehnici - zbirka rešenih zadataka		FTN Izdavaštvo, Novi Sad	2007
3,	D. Raković	Fizičke osnove i karakteristike elektrotehničkih materijala		ETF, Beograd	1995
4,	H. L. Kwok	Electronic materials		PWS Publishing Company	1997
5,	Rolf E. Hummel	Electronic Properties of Materials		Springer, 3rd edition	2001
6,	L. Solymar and D. Walsh	Electrical Properties of Materials		Oxford Science Publications, 6th edition	1998
7,	J. D. Livingston	Electronic Properties of Engineering Materials		Wiley and Sons	1999





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Table 5.2 Course specification

Course:		Mechanics 1 – Fundamentals			
Course id: H112					
Number of ECTS: 7					
Teachers: Grahovac M. Nenad, Spasić T. Dragan, 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	1
Precondition courses		None			
1. Educational goal:					
The teacher's intent is that in this course the students: - Learn the fundamental notions and definitions related to mechanics as a science on forces, i.e. body movement and deformation influenced by forces - Understand the usage of these notions in the learning context of setting the problem and solving the problem - Develop the ability of recognizing problems in mechanics in the sense of identification, (model) formulation and possible solution - Use the computer for numerical and analytical solutions of dynamic problems - Be introduced to fundamental principles in engineering judgements and decision-making process.					
2. Educational outcomes (acquired knowledge):					
After the course, students should be able to: - Relate the acquired knowledge to the courses in mechanics and strength of materials that follow, as well as to apply that knowledge in engineering disciplines that include mechanics as their tool - 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 - Practice individually, work hard and think creatively - Demonstrate understanding and skills, and use the learnt knowledge for designing new solutions for engineering problems.					
3. Course content/structure:					
Investigated objects and their basic motions. Force. Momentum of force for the point (and axis), force connections. Systems of force and force connections. Examples 1-16. Basic attributes in point motion. Global and local properties of a rigid body motion. Matrix mode of motion setting. Euler's theorem. Complex point motion. Coriolis theorem. Examples 17-50. Axioms in dynamics. Amount of motion, momentum of motion amount for a selected point, kinetic energy of a material point and theorems on their motions. Basic theorems on system dynamics. Equivalent force systems. Newton-Euler equation. Koenig's theorem. General case of rigid body motion. Examples 51-110. Poisson theorem. Force system invariations. Balance conditions for one and more bodies. Examples 111-130. Examples always begin from simple examples, and finish with concrete engineering applications. For example, motor crankshaft, ball bearing, universal (Cardan) joint, disk on rough surface, free, forced and damped oscillations with one and two degree-of-freedom, dynamic buffer, dynamic rotor balance, movement of ships, vehicles, etc. As examples, students also learn about different friction models, collision theory elements: distribution collision model with a rigid body, approximate models – Herzog type theories, Newton-Euler collision equations, energy balance in collision, Panleve paradox and line girder loading.					
4. Teaching methods:					
Deductive method is used at lectures. Notions and methods that can be used for solving a large number of tasks are selected. Rarely, a single task is solved using more diverse methods. Active students' participation is recommended, so each unit is learnt during the class already. At lectures, a part of examples is completed, and the rest is completed both at practice, but also individually at home as homework assignments. Students who complete homework assignments from each example group have the right to pass the course content during the semester and hence pass the entire or the part of the practical part of the examination immediately after the course material in that field is presented in class. Apart from regular consultations, there are also pre-examination consultations as computer practice with the direct preparation for the evaluation of the course content understanding, with computer animation and the Internet guide. Practice part of the examination – exercises which were pas					
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 40.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 30.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Lecture attendance		Yes	5.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	AP Markeev	Teorijska mehanika		Nauka Moskva	1990
2,	IV Meščerski	Zbirka zadatka iz mehanike		Nauka Moskva	1986
3.	KS Kolesnikov	Zbirka zadatka iz teorijske mehanike		Nauka Moskva	1989

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	Study Programme Accreditation				
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
Literature					
Ord.	Author	Title	Publisher	Year	
4,	B. Brogliato	Non-smooth mechanics	Springer, London	1999	
5,	F Pfeiffer and Ch Glocker	Dynamics of systems with unilateral constraints	Wiley, New York	1995	
6,	DT Spasić	Mehanika - deo 1: osnovna razmatranja	u pripremi	2007	



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Table 5.2 Course specification

Course:		Sociology of Technique			
Course id:	M318				
Number of ECTS:	2				
Teacher:	Radivojević D. Radoš				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	0	0	0	0	
Precondition courses					
None					
1. Educational goal:					
Training engineers to understand the social importance and role of technique in the society development, positive and negative impact of the technique on the development of society and people, as well as personal social importance and responsibility in creating human society.					
2. Educational outcomes (acquired knowledge):					
Acquisition of social knowledge about characteristics, sources, social function of techniques and creators of technical knowledge; acquisition of knowledge about the impact of nature of social systems on technical development and the impact of technique on society development; acquisition of knowledge about the impact of technique on the processes and changes in the modern society: globalization, changing the working contents and forms of working organization; changes in communication, culture, education, democracy, ways of life and opinions of people, acquisition of knowledge about negative aspects of technical development: nature destruction, alienation in work, creating the risky society.					
3. Course content/structure:					
Technical knowledge: characteristics and special technical functions, sources of technical knowledge, creators of technical knowledge, spreading of the technical knowledge, scientific-technical potential, relationship between science and technique. Relationship between technique and society: social impact on the technical development and technical impact on the social development – Industrial and Informatics society. Technical impact on life, awareness and culture. Technique and globalization: causes and dimensions of globalization, technological gap, brain drain; Technique and working organization: flexible production, network organizations, knowledge economy, electronic economy. Technique and work: shortening the working hours, change of working contents, decline of the work importance. Technique and alienation in work: technical impact on the alienation in work, forms of alienation, humanization of work. Mass media and communications: global television, television impact on the society, theory of media, mobile telephony and internet, internet impact on the society, media imperialism, mass culture, cyber criminal. Technique and education: education and new communication technologies, education and technological gap, virtual universities, intelligence and educational success. Technique and democracy: global media and spreading of the liberal democracy, media and virtual reality, resistance and alternative to global media. Technique and ecological crisis: global working, genetically modified food, technical risks, technical society as a risky society. Technical intelligence: social position and impact, engineering ethics.					
4. Teaching methods:					
During the lectures a problem is presented and then students start the discussion where they ask questions and give objections and supplements to the presented knowledge.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Lecture attendance		Yes	5.00	Oral part of the exam	Yes 50.00
Test		Yes	45.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Radoš Radivojević	Tehnika i društvo		Fakultet tehničkih nauka	2004
2,	Entony Gidens	Sociologija		Ekonomski fakultet	2003
3,	Chris Barker	Television,Globaliization and Cultural Identities		Open University Press	1999
4,	James Stevin	The internet and Society		Camridge, Polity	2000
5,	Radoš Radivojević	Sociologija nauke		Stylos	1997
6,	Eugene Loos, Enid Mante-Meijer, Leslie Haddon	The Social Dynamics of Information and Communication Technology		Ashgate	2008
7,	Wenda K. Bauchspies, Jennifer Croissant, Sal Restivo	Science, Technology and Society: A Sociological Approach		John Wiley & Sons	2005
8,	Jan L. Harrington	Technology and Society		Jones & Bartlett	2011
9,	Deborah G. Johnson, Jameson M. Wetmore	Technology and Society: Building our Sociotechnical Future		MIT Press	2009



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Table 5.2 Course specification

Course:		Mechanics 2 - General			
Course id:	H201				
Number of ECTS:	6				
Teachers:	Grahovac M. Nenad, Spasić T. Dragan, Žigić M. Miodrag				
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					
1. Educational goal:					
As one of the fundamental engineering course, it has the aim of developing abstract thinking, as well as acquiring basic knowledge in the filed of mechanics of rigid and deformable bodies					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge is used in further education and in the professional courses.					
3. Course content/structure:					
Mechanical motions and immovability. Space and time. Force as a measure of mechanical action. Couple as a measure of mechanical action. Couples. Static axioms. Dividing force onto two components. Force reflection. Summing two intersecting forces. Summing two parallel forces. Theorem on three unparallel forces. Facing system force-balance. Summing couples. Plane system of forces and couples – balance. Varignon`s Theorem. Balance of the plane system of rigid bodies. Sliding friction. Centre of the joint system of parallel forces. Centroid. Force intersection. Hypotheses on mechanics of materials. Cauchy-Euler Axiom. Stress vector. Normal and tangential stresses. Axially loaded rods. Statically undetermined tasks with axially loaded rods. Shearing. Geometric properties of flat surfaces. Bending with rods with circular and circular-ring cross sections. Statically undetermined tasks in bending. Beam bending. Linear differential equation of the elastic line. Dot kinematics. Speed and acceleration in Cartesian and natural coordinate system. Dot motion on the circle. Dot motion classification. Projectile motion. Translatory motion of a rigid body. Rigid body spinning around fixed axes. Plane motion of a rigid body. Complex dot motion. Determination principle. Newton`s law on dynamics. Force structure. Two tasks of dynamics. Differential equations on the material point motion in Cartesian and natural coordinate system. Free dot oscillations. Forced dot oscillations. Kinetic energy of a material dot. Force actions. Potential energy. Theorem on the alteration of kinetic energy of a material dot. Law on maintaining the total mechanic energy.					
4. Teaching methods:					
Teaching methods include lectures, computing practice, computer practice and consultations. Lectures are conducted by using presentations and animations. During the classes, apart from theoretical presentation of content, characteristic examples are also presented. Computing practice supplement lectures by completing tasks and deepening the practical knowledge from certain areas. Computer practice is held in order to visualize learnt concepts in mechanics and its models, compare simulation data to theoretical results, test hypotheses and investigate “what if” scenarios. Teaching content can be passed during the teaching process in the form of four modules: Statics, Mechanics of materials, Kinematics and Dynamics. The attendance to computer practice is possible if the student has passed two modules, one of which has to be Kinematics or Dynamics.					
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 40.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 30.00
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	1990
2,	IV Meščerski	Zbirka zadataka iz mehanike		Nauka Moskva	1986
3,	KS Kolesnikov	Zbirka zadataka iz teorijske mehanike		nauka Moskva	1989
4,	F Pfeiffer and Ch Glocker	Dynamics of multibody systems with unilateral constraints		Wiley, New York	1995
5,	B. Brogliato	Nonsmooth mechanics		Springer, London	1999
6,	DT Spasić	Mehanika - deo 2: Opšta razmatranja		u pripremi	2007
7,	SS Simić	Analitička mehanika		FTN Novi Sad	2006



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	<h2>Study Programme Accreditation</h2> <p>UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Strength of materials						
Course id: H202								
Number of ECTS: 6								
Teachers:		Atanacković M. Teodor, Glavardanov B. Valentin						
Course status:		Mandatory						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:		
3		3	0		0	0		
Precondition courses None								
1. Educational goal:								
Formulating fundamental set of equations which describe elastic body deformation and solving those equations for actual engineering problems.								
2. Educational outcomes (acquired knowledge):								
Ability to solve problems that include elastic body deformation with elasticity theory methods.								
3. Course content/structure:								
Fundamental equations of elasticity theory. The case of geometrical non linear material linear body. Methods for solving equations. Variational methods. Fundamental of mechanical cracks. Load concentration. Thermal load. Plate theory. Non linear theory of plates. Influence of load on plate deformation. Stability problems. Elastic plate stability. Linear highly elastic body. Methods for solving problems in linear high elasticity.								
4. Teaching methods:								
Lectures. Mentor work.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Exercise attendance			Yes	3.00	Oral part of the exam		Yes	50.00
Homework			Yes	5.00				
Homework			Yes	5.00				
Homework			Yes	5.00				
Lecture attendance			Yes	2.00				
Test			Yes	10.00				
Test			Yes	10.00				
Test			Yes	10.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	T. Atanacković		Teorija elastičnosti			FTN, Novi Sad		1993
2,	J. Mandić		Otpornost materijala			Naučna knjiga, Beograd		1992



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
	<p>UNDERGRADUATE ACADEMIC STUDIES</p>	<p>Mechatronics</p>

Table 5.2 Course specification

Course:		Mathematics 3			
Course id:	H203				
Number of ECTS:	7				
Teacher:	Pantović B. Jovanka				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	2	
Precondition courses					
1. Educational goal:					
To acquire basic knowledge in the field of algebra and mathematical analysis. To develop abstract thinking and analytical approach to problems. To enable students to link and apply the acquired knowledge in other general and professional courses					
2. Educational outcomes (acquired knowledge):					
Student is taught to apply mathematical models presented within the course. Student is ready to utilize the acquired knowledge in professional courses and further education, as well as in practice.					
3. Course content/structure:					
Real-valued function of two and more real variables. Integrals: line, double, triple, surface. Integral connections. Differential equations. Basic concepts and types. Linear differential equations of first and second order. Inhomogeneous linear differential equation. Laplace transform. Application.					
4. Teaching methods:					
Lectures. Auditory and computing practice. Individual consultations. Homework. In lectures, theoretical content is presented with characteristic examples to illustrate and simplify the lecturing content. In practice, which are synchronized with lectures, characteristic tasks are done in a wider range and the content presented in lectures is deepened. Apart from lectures and practice, individual consultations are held regularly, or consultations in small groups. Homework is provided after each taught lesson. A part of the content, making a larger logical unit, can be passed during the teaching process in the form of 2 modules: the first module is algebra content, and the second module is mathematical analysis content.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Theoretical part of the exam	Yes 10.00
Homework		Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Irena Čomić, Ljiljana Pavlović	Funkcije više promenljivih		Novi Sad	2000
2,	Lidija Čomić, Aleksandar Nikolić	Diferencijalne jednačine		FTN, Novi Sad	1999
3,	Nevenka Adžić, Joviša Žunić	Višestruki integrali i teorija polja		FTN, Novi Sad	1998
4,	Nevenka Adžić	Nesvojstveni integrali i Laplasove transformacije		FTN, Novi Sad	1999



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	<h2>Study Programme Accreditation</h2> <p>UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Mecahnical Elements 1				
Course id:	H205					
Number of ECTS:	5					
Teacher:		Kuzmanović B. Siniša				
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:						
Expanding knowledge in one of mechanical elements.						
2. Educational outcomes (acquired knowledge):						
Ability to solve problems from one of the mechanical elements.						
3. Course content/structure:						
According to individual needs and interests one of the following modules is chosen: analytical mechanics, theory of elasticity, continuum mechanics, mathematical rod theory, non linear oscillations, non smooth mechanics and optimization, collision theory, chaos in dynamic systems, non linear mechanics with nonconservative characteristics and if needed biomechanics.						
4. Teaching methods:						
Lectures. Mentor work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam Yes 30.00		
Graphic paper		Yes	20.00			
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,	S. Kuzmanović	MAŠINSKI ELEMENTI-oblikovanje, proracun i primena		FTN Novi Sad		2012
2,	V. Miltenović	MAŠINSKI ELEMENTI		MF Niš		2009
3,	M. Ognjanović	MAŠINSKI ELEMENTI		MF Beograd		2008
4,	S. Kuzmanović, R. Trbojević, M. Rackov	ZBIRKA ZADATAKA IZ MAŠINSKIH ELEMENATA		FTN Novi Sad		2006

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	Mechatronics	

Table 5.2 Course specification

Course:		Introduction to Electronics			
Course id:	H206				
Number of ECTS:	6				
Teacher:		Damnjanović S. Mirjana			
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:					
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,	M. Živanov	Elektronika, komponente i pojačavačka kola		FTN izdavaštvo	2004
2,	S. Tešić, D. Vasiljević	Osnovi elektronike		Grosknjiga, Beograd	1994
3,	R. Jaeger	Microelectronic Circuit Design		The McGraw-Hill Companies, Inc., New York	1997

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Table 5.2 Course specification

Course:		Automatic Control Systems				
Course id:	E226					
Number of ECTS:	8					
Teachers:	Kulić J. Filip, Ristić V. Aleksandar, Petrovački Lj. Nebojša					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
4	2	2	0	0		
Precondition courses						
1. Educational goal:						
Students learn about theoretical and practical bases of science of system control.						
2. Educational outcomes (acquired knowledge):						
The acquired knowledge can be used in solving practical engineering problems and forms a basis for future engineering subjects.						
3. Course content/structure:						
Basic notions and principles of automatic control systems. Mathematical description of continual linear and non linear systems.Laplace transform. Block diagram models. Signal flow graph models. Quality evaluation and of control in stationary and transition regime. Analysis of system stability using analytical methods. Root locus. Analysis and syntheses of system in frequency domain. Nyquist stability criteria, Bode method, Concept of space of system state. Choice and adjusting of parameters of industrial regulators. PID regulators, Elements of digital control systems. Introduction to computer application in control.						
4. Teaching methods:						
Lectures, calculation, laboratory, computer and computer-laboratory practice. Consultations. Part of the course which forms a logical whole can be taken in the form of a colloquium. Colloquium and examinationsare oral and written. Both parts are taken in written form. The final grade is formed on the bases of performance at the colloquium, computer-laboratory practice and the written and oral examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Test		Yes	10.00	Oral part of the exam	Yes 30.00	
Test		Yes	10.00	Practical part of the exam - tasks	Yes 40.00	
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	M. Stojić	Kontinualni sistemi automatskog upravljanja		Naučna Knjiga, Beograd	1978	
2,	B. Kovačević, Ž. Đurović	Sistemi automatskog upravljanja- zbornik rešenih zadataka		Nauka, Beograd	1995	
3,	D. Kukolj i ostali	Osnove klasične teorije automatskog upravljanja kroz rešene primere		Somel, Sombor	1995	
4,	D. Kukolj, F. Kulić	Projektovanje sistema automatskog upravljanja u prostoru stanja		Univerzitet u Novom Sadu, Novi Sad	1995	
5,	Richard C. Dorf; Robert H. Bishop	Modern Control Systems		Addison-Wesley	1998	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
	<p>UNDERGRADUATE ACADEMIC STUDIES</p>	<p style="text-align: right;">Mechatronics</p>

Table 5.2 Course specification

Course:		Programming and Programming Languages				
Course id:	H207					
Number of ECTS:	5					
Teachers:	Ivetić V. Dragan, Malbaški T. Dušan, Suvajdžin Rakić B. Zorica					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	0	2	0	0		
Precondition courses						
None						
1. Educational goal:						
Mastering basic programming skills on the example of the programming language C.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge and skills are used for solving problems from basic profession individually or in a team. Modeling problem solution by application of structural techniques, structuring data especially at the level of bits, development of detailed solution, coding the solution on the C programming language, active participation in software development teams nourishing software engineering.						
3. Course content/structure:						
Program development phases of simple behavior. Generations of programming languages and styles. Development and executing C programs. Basic structure of C programs: alphabet, identifiers, preprocessing directives, declaration of constants, types and variables. Types of data of C languages: scalars, index types and records/structures. C operators, expressions and management structures. C functions, recursions and macros. Standard functions of inputs and outputs. Working with C database, text and binary.						
4. Teaching methods:						
Lectures, Computer Practice, Consultations. The course is organized in two wholes and the knowledge is tested in the form of two tests during the lectures. C programs are created during Practice using static and dynamic data structures. The quality of the Practice work is evaluated. Successfully solved Practice is an examination prerequisite. The examination is taken in the written form. Points won at the examination, tests and other obligations are added up in order to form the final grade.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Complex exercises		Yes	50.00	Theoretical part of the exam	Yes 30.00	
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Dragan Ivetić	Strukturirani pristup programiranju: inženjering, algoritmi i programski jezici Paskal i C		FTN	2005	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Mechanical Elements 2				
Course id: H208						
Number of ECTS: 5						
Teacher:		Kuzmanović B. Siniša				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		3	0	0		0
Precondition courses						
1. Educational goal:						
Getting introduced to basic concepts and principles of mechanics as part of physics and fundamental technical discipline. Mastering basic methods of analysis and technical problem solving						
2. Educational outcomes (acquired knowledge):						
Students use gained knowledge as a conceptual base in other technical disciplines						
3. Course content/structure:						
Units of measurement, physical measurement, and vectors. Rectilinear motion of a particle. Curvilinear motion of a particle. Newton`s law of motion. Application of Newton`s laws. Work and kinetic energy. Potential energy and conservation of energy. Momentum, Impulse and Collision. Rotational motion of rigid bodies. Rotational dynamics. Equilibrium and elasticity. Gravitation. Oscillatory movement. Computer simulation of dynamic systems						
4. Teaching methods:						
Lectures include theoretical basis related to the teaching units and illustrated examples. Based on the lectured matter, methods of analysis and specific problem solving are being developed in the practice classes and applied on selected examples.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Computer exercise attendance		Yes	2.50	Theoretical part of the exam		Yes 30.00
Exercise attendance		Yes	2.50			
Graphic paper		Yes	20.00			
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,	S. Kuzmanović	MAŠINSKI ELEMENTI-oblikovanje, proračun i primena		FTN Novi Sad		2012
2,	V. Miltenović	MAŠINSKI ELEMENTI		MF Niš		2009
3,	M. Ognjanović	MAŠINSKI ELEMENTI		MF Beograd		2008
4,	S. Kuzmanović, R. Trbojević, M. Rackov	ZBIRKA ZADATAKA IZ MAŠINSKIH ELEMENATA		FTN Novi Sad		2006



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Table 5.2 Course specification

Course:		Digital Electronics							
Course id:	H209								
Number of ECTS:	5								
Teacher:		Damnjanović S. Mirjana							
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:									
Mastering the basic knowledge related to the use of modulation methods for the digital modulation.									
2. Educational outcomes (acquired knowledge):									
Theoretical knowledge, the use of programme simulations, working on the DSP platform.									
3. Course content/structure:									
Signal transmission in the transposed frequency range (ASK, QAM, PSK, FSK, combined modulations, ODFM, Trelis encoded modulation). Probability of error in transmission of digitally modulated signals. Transmission of signals in the spread spectrum (DS, FH). Carrier synchronization									
4. Teaching methods:									
Lectures; Auditory Practice; Computer Practice; Laboratory Practice; Consultations									
Knowledge evaluation (maximum 100 points)									
Pre-examination obligations				Mandatory	Points	Final exam		Mandatory	Points
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,	M.Damnjanović, L.Nađ			Skripta iz digitalne elektronike			FTN, Novi Sad		2006
2,	M.Damnjanović, L.Nađ			Zbirka rešenih zadataka iz digitalne elektronike			FTN, Novi Sad		2007
3,	L.Nađ, M.Damnjanović			Praktikum za računarske i laboratorijske vežbe iz digitalne elektronike			FTN, Novi Sad		2007



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Measurements in Technical Engineering				
Course id:	H210					
Number of ECTS:	5					
Teacher:		Milovančev S. Slobodan				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
2	0	2		0		0
Precondition courses						
None						
1. Educational goal:						
Acquiring knowledge in the field of electrical measurements						
2. Educational outcomes (acquired knowledge):						
Ability to use contemporary measurement instruments and industrial instruments. Solving of mid-complexity problems in the field of industrial measurement of electrical and non-electrical quantities. Ability to apply contemporary electrical measurement instruments for measuring quantities in mechanical engineering.						
3. Course content/structure:						
Measurement errors. Measuring instrument. Measurement bridges. Elements of power system. Measuring transformers. Oscilloscope. Connecting measurement instruments in a measurement circuit. Architecture of measurement instruments. Measurement of non-electrical quantities. Measurement of temperature, PTC, NTC, thermocouple and other sensors. Strain gauges and force and pressure measurement etc.						
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	Oral part of the exam		Yes 30.00
				Practical part of the exam - tasks		Yes 40.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Dragan Stanković	Fizičko-tehnička merenja			Naučna knjiga Beograd	2002
2,	Slobodan Milovančev	Zbirka rešenih zadataka iz električnih merenja neelektričnih veličina			FTN Novi Sad	2001



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Table 5.2 Course specification

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



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		English Language for Engineers				
Course id:	EJEI					
Number of ECTS:	2					
Teachers:		Bogdanović Ž. Vesna, Gak M. Dragana, Katić M. Marina, Ličen S. Branislava, Mirović Đ. Ivana, Šafranjić F. Jelisaveta				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
2		0	0		0	0
Precondition courses						
None						
1. Educational goal:						
Introduction to the English language in the function of profession for special purposes. Developing strategies for understanding foreign language texts. Developing the ability to read and comprehend original English texts related to various aspects of mechatronics. 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 mechatronics. 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 mechatronics. 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. and N. Glendinning		Oxford English for Electrical and Mechanical Engineering(odabrana poglavlja)		OUP	2001
2,	Geldinning and Mc Ewan		Oxford English for Information Technology (odabrana poglavlja)		OUP	2006
3,	J. Eastwood		Oxford Practice Grammar - Intermediate		OUP	2006
4,	grupa autora		Oxford English - Serbian Dictionary		OUP	2006
5,	Popić i dr.		Naučno tehnički rečnik		Privredni pregled	1989



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Table 5.2 Course specification

Course:		German Language for Engineers 1						
Course id: NJT1								
Number of ECTS: 2								
Teacher:		Berić B. Andrijana						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
2		0		0		0	0	
Precondition courses							None	
1. Educational goal:								
Acquiring professional terminology related to traffic and transport, improvement of language competency in relation to professional topics, and acquiring complex language structures.								
2. Educational outcomes (acquired knowledge):								
Students are familiar with professional terminology, they can understand texts related to the profession and have conversations on topics related to their future profession.								
3. Course content/structure:								
Practical part of classes: acquiring professional terminology through contemporary texts. Theoretical part: verbs, participles I and II, reflexive usage of verbs, modal sentences, comparison of adjectives.								
4. Teaching methods:								
The main accent is on communicative method, and students` participation during the classes. During communication interaction is very important.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Test			Yes	10.00	Written part of the exam - tasks and theory		Yes	35.00
Test			Yes	10.00	Oral part of the exam		Yes	35.00
Test			Yes	10.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	E.Zettl, J. Janssen, H. Müller		Aus moderner Technik und Naturwissenschaft (1 lektion 1-1 lektion 4)			Hueber Verlag		1999



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	<h2>Study Programme Accreditation</h2> <p>UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		System Modelling and Simulation 1				
Course id: H213						
Number of ECTS: 4						
Teachers:		Čapko Lj. Darko, Erdeljan M. Aleksandar				
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		0	2	0		0
Precondition courses None						
1. Educational goal:						
Mastering theoretical and practical bases in system modelling and simulation.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge can be used in solving specific engineering problems, and it also represents a basis for taking other professional courses						
3. Course content/structure:						
Place and role of modelling and simulation, application in practice. Theory on modelling and simulation. Mathematical models of time continual systems. Examples of model formation: mechanical, thermal, hydro-dynamical, electrical and electro-mechanical systems. Analogies of sizes and parameters. Electro-mechanical analogies. Model linearization. Simulation on analogue/hybrid computer. Simulation languages. Simulation on a digital computer (MATLAB).						
4. Teaching methods:						
Lectures, numerical-computing practice, computer practice, laboratory practice, consultations. Examination grade is based on the success on partial examination, homework, written and oral part of the examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Complex exercises			Yes	5.00	Coloquium exam	No 20.00
Complex exercises			Yes	5.00	Coloquium exam	No 20.00
Complex exercises			Yes	5.00	Oral part of the exam	Yes 30.00
Complex exercises			Yes	5.00	Practical part of the exam - tasks	Yes 40.00
Test			Yes	10.00		
Literature						
Ord.	Author		Title		Publisher	Year
1,	C.M.Close, D.K.Frederick, J.C.Newell		Modeling and Analysis of Dynamic Systems		John Wiley & Sons, Inc.	2002
2,	Latinka Čalasan, Menka Petkovska		MATLAB i dodatni moduli Control System Toolbox i SIMULINK		Mikro knjiga, Beograd	1995
3,	Duane Hanselman, Bruce Littlefield		Mastering MATLAB 6 - A Comprehensive Tutorial and Reference		Prantice Hall, ISBN: 0-13-019468-9	2001



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	<h2>Study Programme Accreditation</h2> <p>UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Control Systems 2			
Course id:	H302				
Number of ECTS:	5				
Teachers:		Jeličić D. Zoran, Kulić J. Filip, Rapaić R. 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	0	
Precondition courses		None			
1. Educational goal:					
The objective is to provide students with necessary knowledge in the field of computer aided production system management and to enable them to use modern programme tools for that purpose. Studying in this field introduces students to CAPM technologies, and gives them practical knowledge and skills applicable in practical work and actual production and business systems.					
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:					
Introduction to digital control systems. Sampling and hold process. Direct digital control. z-transform. Concept of digital state space models. Pulse transfer function. Analysis of digital systems. Digital system stability. Digital control system design: regulators, PID regulators, servo regulators, cancellation controllers, state space regulators. Implementation of digital control algorithms.					
4. Teaching methods:					
Classes are realized in the form of lectures, auditory and laboratory practical classes. Practical classes are held in specialized computer classroom and laboratories. Students are required to independently write a seminar paper. Permanent consultations with the professor and his assistants are organized.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	30.00	Coloquium exam	No 20.00
				Coloquium exam	No 20.00
				Oral part of the exam	Yes 30.00
				Practical part of the exam - tasks	Yes 40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Stojić	Digitalni sistemi upravljanja		Nauka, Beograd	1990
2,	Lj. Grujić	Diskretni sistemi		Mašinski Fakultet, Beograd	1980
3,	R. Isermann	Digital Control Systems		Springer-Verlag	1999
4,	K. Astrom, B. Wittemark	Computer-Controlled Systems		Prentice hall	1997
5,	M. Rapaić, S. Ostojin	Skripta za laboratorijske vežbe			2007
6,	Z. Jeličić	Štampani materijal koji pokriva pojedina izlaganja i vežbe			2005



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Table 5.2 Course specification

Course:		Analogue Electronics						
Course id:	H305							
Number of ECTS:	5							
Teacher:		Nađ F. Laslo						
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:								
Acquiring practical knowledge in the field of digital controlling enlectronics; optoelectronics components, lasers, optical fibers, sensors, practical work on the diagnostics of optical fibres.								
2. Educational outcomes (acquired knowledge):								
Ability of designing systems with modern electronic circuits								
- Ability of analysing complex mechatronics systems for practical realization								
- Ability of creating complex digital electronic systems with DSP								
- Ability of designing systems wih complex mechatronics sensors								
3. Course content/structure:								
Significance of electronics in mechatronics. Specialized sensors i mechatronics. Elelctric engines (DC, AC, pase). Electronic drivers for eletrctric engines. Engine control (continuously, impusively). Stability problems. Management Algorithms.(analoguous and digital) . Development environment. Digital signal processors. Industry examples. Technical documentation. Writing project.								
4. Teaching methods:								
Lectures; Consultations; Auditory Practice. Two home-works. One testing.								
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	Coloquium exam		No	20.00
Homework			Yes	5.00				
Lecture attendance			Yes	5.00				
Test			Yes	10.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	S.Tešić, D.Vasiljević		Osnovi elektronike Komponente, Pojačavačka kola, Impulsna kola, Digitalna kola			Građevinska knjiga		2005



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Table 5.2 Course specification

Course:		Machine Mechanics				
Course id:	H306					
Number of ECTS:	4					
Teacher:	Čavić M. Maja					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	1		
Precondition courses						
1. Educational goal:						
Introduction to specific mechanisms, improvement of skills of dynamic analysis and mechanisms synthesis.						
2. Educational outcomes (acquired knowledge):						
Ability to apply specific mechanisms in practical problems as well as performing dynamic analysis of mechanisms in real conditions. Application of mechanisms synthesis methods in practical problems.						
3. Course content/structure:						
The structural formula and the degree of freedom .Assembling mechanisms using kinematic groups - Artobolevsky condition. Graphical method for kinematic analysis of complex lever mechanism. Application of the method of instantaneous centers in the kinematic analysis. Analytical method for kinematic analysis of complex lever mechanism. Kinematic analysis of planetary-differential mechanisms. Inertia force of mechanism. Kinetostatic forces. Basics of lever linkages balancing. Fundamentals of rotor balancing. Cam mechanism. Mechanisms with intermittent motion. The synthesis of lever linkages.						
4. Teaching methods:						
Class forms: lectures, graphic and computer practical classes, consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Homework		Yes	5.00	Final exam - part one	Yes	35.00
Homework		Yes	5.00	Final exam - part two	Yes	20.00
Test		Yes	10.00	Theoretical part of the exam	Yes	15.00
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Zlokolica M., Čavić M., Kostić M.	Mehanika mašina		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad		2005
2,	Zlokolica M, Čavić M, Kostić M.	Odabrani primeri iz mehanike mašina		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad		2005



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
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Table 5.2 Course specification

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



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Table 5.2 Course specification

Course:		Mechatronics 3 – Further Chapters			
Course id:	H303				
Number of ECTS:	6				
Teachers:		Grahovac M. Nenad, Spasić T. Dragan, Žigić M. Miodrag			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	1	
Precondition courses					
1. Educational goal:					
Acquiring expended theoretical and practical knowledge in the field of functionality and element construction, devices and systems, as well as individual mechatronic components which make IC engine equipment					
2. Educational outcomes (acquired knowledge):					
Ability to independently and creatively use acquired knowledge and skills to consider and solve new problems, as well as interdisciplinary approach to the problems in the field of functionality and element construction, devices and systems as well as individual mechatronic components which make IC engines equipment.					
3. Course content/structure:					
Definition, history and division of IC engines. Theoretical IC engine cycles. Theoretical engine cycles: Otto, diesel, combining-analysis and comparison. Theoretical cycles. Actual cycles analysis and selection of calculation cycle parameters. Process of working matter change of four-stroke engines with suction and with specific features of two-stroke engines. Process of compression. Process of combustion. Analysis of engine indicators: middle indicating pressure, indicating power, specific indicating fuel consumption. Analysis of effective engine indicators. Forsage engine indicators: litar and specific power. Heat balance. Combustion processes analysis in Otto and diesel engines. Normal combustion flow phases. Forms of unnormal combustion. Forming space for combustion in Otto and diesel engines. Engines driving characteristics: speed analysis, load, combining, and other characteristics.					
4. Teaching methods:					
Oral presentation in lectures accompanied with appropriate images, diagrams and schemes projected aided by PC computers. Auditory practical classes and laboratory practical classes in testing tables for IC engines testing with appropriate laboratory equipment.					
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 20.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Lecture attendance		Yes	5.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	AP Markeev	Teorijska mehanika		Nauka, Moskva	1990
2,	R. Leine and H. Nijimeijer	Dynamics and bifurcations of non-smooth mechanical systems		Springer, Berlin	2004
3,	F Pfeiffer and Ch Glocker	Dynamics of multibody systems with unilateral constraints		Wiley, New York	1995
4,	Ch Glocker	Set valued force laws, Dynamics of non-smooth systems		Springer, Berlin	2001
5,	B Brogliato	Nonsmooth mechanics		Springer, London	1999
6,	D. T. Spasić	Mehanika - deo 3: Proširenja		u pripremi	2007
7,	W Kecs and PP Teodorescu	Applications of theory of distributions in mechanics		Nauka, Moskva	1970
8,	M Fremon	Collisions, thermal effects, collisions of deformable solids		CISM, Springer, Wien	2006



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Table 5.2 Course specification

Course:		Power Electronics			
Course id:	EM434				
Number of ECTS:	6				
Teacher:	Grabić U. Stevan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	1	2	0	0	
Precondition courses		None			
1. Educational goal:					
Power Electronics course objective is to educate students to design, construct and maintain devices for conversion of power electricity using power electronic switching components and methods of digital control. Besides theoretical background of power semiconductors, modes of all types of converter (AC/DC, DC/DC, DC/AC and AC/AC), and in particular DC/DC power supply, students acquire necessary practical experience to apply gained knowledge in industry applications.					
2. Educational outcomes (acquired knowledge):					
Students will have the ability to understand the principles and operating principles of electric power conversion with powerful semiconductor components, to design and calculate parameters of basic power electronic converters (AC/DC, DC/DC, DC/AC and AC/AC), as well as to apply commercial devices in the applied and consumer electronics. Besides, students will gain necessary practical experience through practical work in the laboratory.					
3. Course content/structure:					
Subject and importance of power electronics. Introduction to power converters. Components of power electronics. Structure and operating principles. Safety area. Calculation of losses. Rectifiers (AC/DC). Inverters (DC/AC). Frequency converters (AC/AC). DC converters (DC/DC converters). Choppers. DC power supplies – basic requirements, operating principles, types. Linear power supplies. Switching power supplies without galvanic isolation – concept and classification. Voltage buck converter. Voltage boost converter. Voltage buck/boost converter. Ćuk converter. Switching power supplies with galvanic isolation – concept and classification. Single quadrant power supplies – flyback and forward power supply. Two quadrant power supplies – push-pull, semi bridge and bridge power supply. AC voltage power supplies. Methods of modeling of power converters. Application of modern software (PSpice or MATLAB). Control methods of power converters using microprocessors. Examples of application of power electronics. Commercial devices, market and applications.					
4. Teaching methods:					
The lectures present main theoretical concepts and mathematical models of a power electronic system. Auditory exercises cover component and converter design problems. Practical experience is gained through laboratory exercises. There student work on the assembly of certain circuits, computer simulations of the circuits and on testing of obtained solutions.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 50.00
Laboratory exercise defence		Yes	20.00		
Lecture attendance		Yes	5.00		
Test		Yes	10.00		
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Branko Dokić	Energetska elektronika: pretvarači i regulatori		Elektrotehnički fakultet i Banjaluka Company, Banja Luka	2000
2,	Vladimir Katić	Energetska elektronika - zbirka rešenih zadataka		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	1998
3,	Vladimir Katić, Darko Marčetić, Dušan Graovac	Energetska elektronika - Praktikum laboratorijskih vežbi		Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad	2000



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Electrical Machines			
Course id: H351					
Number of ECTS: 6					
Teacher:		Vasić V. Veran			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
3	2	0	0	1	
Precondition courses		None			
1. Educational goal:					
Acquiring basic knowledge in the field of applied electrical engineering, electromechanical energy conversions, electrical machines, power electrical devices and their application.					
2. Educational outcomes (acquired knowledge):					
Acquiring basic notions on electricity and electrical characteristics of materials used in making active parts of electrical machines - Acquiring basic notions on time-constant and time-alternating electrical currents from the aspect of application in electrical machines - Understanding basic principles of electro-mechanical energy conversion -Understanding basic characteristics and working modes of rotation electrical machines and transformers -Understanding basic characteristics and working modes of power electrical devices and their application					
3. Course content/structure:					
Principles of electromechanical energy conversion. Parts of rotational electrical machines. Overview of different types of electrical machines, basic elements and properties. DC machines, induction machines, synchronous machines, stepper motors. Power transformers. Electrical connection, power supply and protection of electrical machines.					
4. Teaching methods:					
Lectures, Exercises.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes 30.00
Homework		Yes	5.00	Coloquium exam	Yes 20.00
Test		Yes	10.00	Coloquium exam	Yes 20.00
Test		Yes	10.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	E. Levi, V. Vučković, V. Strezoski	Osnovi elektroenergetike		FTN, Novi Sad	2011
2,	M. Milanković, D. Perić	Osnovi elektroenergetike		Viša elektrotehnička škola Beograd	2002

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	Mechatronics	

Table 5.2 Course specification

Course:		Object Oriented Technologies						
Course id:	H401							
Number of ECTS:	6							
Teacher:		Ristić M. Sonja						
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:								
This course aims to introduce students to basic and practical knowledge on object-oriented technologies and object-oriented programming. Keeping in mind extremely dynamic development of object-oriented tools for design and programming our goal is to enable students to systematically study new tools in order to quickly and easy start to use them effectively.								
2. Educational outcomes (acquired knowledge):								
Students who successfully complete this course will be able to: explain the principles of the object-oriented programming paradigm specifically including abstraction, encapsulation, inheritance and polymorphism; use an object-oriented programming language and associated class libraries, develop object-oriented programs; design, develop, test, and debug programs using object-oriented principles in conjuncture with an integrated development environment; and construct appropriate diagrams and textual descriptions to communicate the static structure and dynamic behavior of an object-oriented solution.								
3. Course content/structure:								
Object-oriented paradigm. Object-oriented software development. Basic concepts of generic object-oriented programming: object, class, message, etc. Object Identity. Inheritance: notion and basic principles. Implementation hiding, polymorphism. Overloading and overriding. Persistence. Object-oriented programming techniques. Basic concepts and syntax of selected object-oriented programming language. Basic concepts of Unified Modelling Language (UML). Object-oriented system model - structure and behavior. Principles of selected integrated development environment.								
4. Teaching methods:								
Lectures; Tutorials (computer laboratory); Consultations; Individual work on required assignments. Students are encouraged to communicate, to participate in critical discussions; to work independently and to be actively involved in teaching process.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Complex exercises			Yes	40.00	Oral part of the exam		Yes	30.00
Homework			Yes	5.00				
Homework			Yes	5.00				
Test			Yes	10.00				
Test			Yes	10.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Eckel B.		Misliti na Javi			Mikro knjiga		2002
2,	Bruegge, B., Dutoit, A.		Object Oriented Software Engineering, 3/E			Pearson Education Int.		2010
3,	OMG		OMG Unified Modeling LanguageTM (OMG UML)			http://www.omg.org/spec/UML/2 4 1		2012



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	Mechatronics	

Table 5.2 Course specification

Course:		Industrial Robotics			
Course id:	H308				
Number of ECTS:	8				
Teachers:	Borovac A. Branislav, Ivandić I. Željko, Kozak V. Dražen				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	0	4	0	0	
Precondition courses		None			
1. Educational goal:					
Objective is for students to master fundamentals of industrial robotics.					
2. Educational outcomes (acquired knowledge):					
The outcome is knowledge of fundamentals of industrial robotics.					
3. Course content/structure:					
Definitions, homogenous transformations, robot kinematics (direct and inverse problem), Denavit-Hartenber notation, Jacobian, synthesis of trajectories, robot dynamics, robot control, robot programming, sensors in robotics and their application, application of robots in industrial tasks.					
4. Teaching methods:					
Classes are realized through lectures and practical classes. During practical classes, students are required to pass one partial examination and to carry out tree computer practices. Partial examination includes: homogenous transformation, direct and inverse kinematic problem, direct and inverse dynamic problem, trajectories planning, controlling of industrial robots. Computer practical classes are realized in MATLAB. The first practice includes homogenous transformations, the second DH notation, the third trajectory calculation (inner coordination). Each practice is presented and defended. In order to be entitled to take the final examination student needs to pass partial examination and successfully defend practice. The final examination is based on test and theoretical questions.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Laboratory exercise defence		Yes	30.00	Theoretical part of the exam	Yes 40.00
				Practical part of the exam - tasks	Yes 30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	M. Vukobratović	Uvod u robotiku		Institut Mihajlo Pupin	1986
2,	M. Vukobratović, D. Stokić	Primenjeno upravljanje manipulacionim robotima		Tehnička knjiga, beograd, II dopunjeno izdanje	1990
3,	M. Spong, S. Hutchinson, M. Vidyasagar	Robot Modelling and Control,		John Wiley & Sons, Inc., ISBN-10 0-471-649	2006
4,	L. Sciavicco, B. Sicilijano,	Modelling and control of robot manipulators		Springer - Verlag, ISBN 1-85233-221-2	2000
5,	M. Vukobratović, D. Stokić	Primenjena dinamika manipulacionih robota		Tehnička knjiga, Beograd, YU ISBN 86-325-0213-1	1990
6,	B. Borovac, G. Đorđević, M. Rašić, M. Raković	Industrijska robotika		Fakultet tehničkih nauka (u pripremi)	2007



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	<h2>Study Programme Accreditation</h2> <p>UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Components of technological systems			
Course id:	H310				
Number of ECTS:	8				
Teachers:		Stankovski V. Stevan, Šešlija D. Dragan, Jocanović T. Mitar, Ostojić M. Gordana, Dudić P. Slobodan, Šormaz N. Dušan			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
4		0	4	0	0
Precondition courses					
None					
1. Educational goal:					
The goal of course is getting knowledge about the basic components used in pneumatic, electro-pneumatic and hydraulic systems.					
2. Educational outcomes (acquired knowledge):					
The outcome of the subject is knowledge about basic components that are used in pneumatic, electro-pneumatic and hydraulic systems.					
3. Course content/structure:					
The basic components of technical systems: mechanical components, pneumatic components, hydraulic components, electrical components, mechatronic components. The basic component assemblies. Executive components of technical systems: Pneumatic cylinders and motors, hydraulic cylinders and motors, electric motors and linear units. Pneumatic, electric and hydraulic handling devices. Pneumatic, hydraulic and electric control valves, valves and regulators.					
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,	Hasebrink, J. Kobler	UVOD U PNEUMATIKU		FTN NoviSad	1989
2,	Savić, V.	OSNOVE ULJNE HIDRAULIKE		IKOS, Zenica	1991
3,	McPartland, J.F., McPartland, B.J.	HANDBOOK OF PRACTICAL ELECTRICAL DESIGN		McGraw-Hill	1995
4,	Dragan Šešlija	Proizvodnja, priprema i distribucija vazduha pod pritiskom		IKOS, Novi Sad	2002



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	Mechatronics	

Table 5.2 Course specification

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



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
	<p>UNDERGRADUATE ACADEMIC STUDIES</p>	<p style="text-align: right;">Mechatronics</p>

Table 5.2 Course specification

Course:		Impuls Electronics				
Course id:	H309					
Number of ECTS:	8					
Teacher:	Nađ F. Laslo					
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						
1. Educational goal:						
Acquiring basic knowledge in the field of application of semiconductor devices as switches, analysis and design of circuits with switches. Introduction to the methods, characteristics and application of basic digital electronic components in the most important families of logic circuits. Introduction to the most important pulse circuits. Connecting theoretical and practical knowledge about these issues.						
2. Educational outcomes (acquired knowledge):						
-ability to interpret catalogue data of semiconductor switching components -ability to design basic excitation circuits for optimum switch control -ability to analyze and design typical pulse circuits, including computer-assisted simulations and measurements in the laboratory -ability to assess the way of formation and spreading of impulse noise in electronic devices, and the basics of fighting against it -ability to analyze and design basic pulse circuits.						
3. Course content/structure:						
The most common non-sinusoidal signals (pulses). Ideal and real switches. Semiconductor devices as switches (diodes, bipolar transistors, MOSFETs, thyristors, other components); the operation method, characteristics, modeling, optimum usage. Shaping circuits (linear and nonlinear, with and without amplifier). Comparators. Characteristics of logic circuits. The most important family of logic circuits (TTL, CMOS, BiCMOS, ECL, GaAs circuits): the basic gate, characteristics, application. Digital signal propagation in transmission lines. Non-standard applications of logic circuits. Bistable circuits. Astable circuits. Monostable circuits. Linear signal generators. Function generators.						
4. Teaching methods:						
Lectures; Consultations; Auditory Practice; Mandatory Laboratory Practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise defence		Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00
Coloquium exam					No	20.00
Literature						
Ord.	Author	Title		Publisher	Year	
1,	S.Tešić, D.Vasiljević	Osnovi elektronike Komponente, Pojačavačka kola, Impulsna kola, Digitalna kola		Građevinska knjiga	2005	
2,	M.Damjanović	Praktikum iz laboratorijskih vežbi		FTN Novi Sad	2007	



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	Mechatronics	

Table 5.2 Course specification

Course:		Control of Electrical Drives				
Course id: H361						
Number of ECTS: 8						
Teacher:		Oros V. Đura				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		0	2	0		1
Precondition courses		None				
1. Educational goal:						
Acquiring basic knowledge in the field of regulation of electric motor drives with AC and DC motors. Mastering the regulation structure design with an objective to obtain optimal response of the electric motor drive.						
2. Educational outcomes (acquired knowledge):						
Design torque, speed and position controller of motor drives Comprehend modern control strategies for electrical drive systems. - ability to choose regulatory structures and methods of control of electric motors considering the drive requirements - ability to design regulator structures and calculate their parameters - ability to implement industrial inverter controlled electrical drives.						
3. Course content/structure:						
Controlled electric motor drive. Basic regulatory structures. Structures of controllers, controller of P, PI, PID type. Methods of current control, momentum, speed and position. Cascade structure of the control system. Criteria for the quality assessment of the control system. Transmissive function of certain elements in the electric motor drive. Synthesis of the regulators for the regulation objects of I and II order. Synthesis of the regulatory system for the DC motors. Synthesis of the regulatory structure in the case of U/f and current control of the asynchronous motor. Synthesis of the regulatory structure. Development of the regulated drive powered by the power electronic converters. General types of converters. General characteristics of the frequency converters.						
4. Teaching methods:						
Lectures. Laboratory work.						
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 35.00
Lecture attendance		Yes	5.00	Oral part of the exam		Yes 35.00
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title			Publisher	Year
1,	V. Vučković	Električni pogoni			Akadska misao Beograd	1997
2,	B. Jeftenić, V. Vasić, Đ. Oros	Regulisani elektromotorni pogoni - rešeni problemi sa elementima teorije			Akadska misao Beograd	2004



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	Mechatronics	

Table 5.2 Course specification

Course:		Programming and application of programmable logic controllers			
Course id:	H1410				
Number of ECTS:	7				
Teachers:		Stankovski V. Stevan, Jovanović M. Vukica, Ivandić I. Željko, Kozak V. Dražen, Heraković S. Niko			
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					
1. Educational goal:					
The aim of the course is that the students master the programming and implementation of programmable logic controllers (PLC).					
2. Educational outcomes (acquired knowledge):					
The outcome of the subject is knowledge about programming languages for programming programmable logic controllers (PLC), and knowledge for the application of (PLC).					
3. Course content/structure:					
Introduction to PLC. PLC structure. PLC Programming: Sequential functional diagram, structured text, statement list, ladder diagrams, functional block diagram. Fuzzy controllers. Connecting PLCs. Creating projects with PLCs. Applications of PLCs.					
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,	Stevan Stankovski	Programiranje i primena programabilno logickih kontrolera - skripta		FTN	2012
2,	Stenerson Jon	Fundamentals of Programmable Logic Controllers, Sensors, and Communications		Prentice Hall	2005
3,	Stankovski S., Ostojić G., Raković M., Tarian L., Šenk I.	Zbirka rešenih zadataka iz: Programiranja i primene programabilnih logičkih kontrolera		Fakultet tehničkih nauka	2009



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Professional Practice				
Course id:	H14SP					
Number of ECTS:	3					
Teachers:						
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
0	0	0		0		3
Precondition courses		None				
1. Educational goal:						
Acquiring direct knowledge about activities and organization of companies and institutions dealing with profession chosen by the student and possibilities of application of previously acquired knowledge in practice.						
2. Educational outcomes (acquired knowledge):						
Enabling students to apply previously acquired theoretical and professional knowledge for solving specific practical engineering problems within the chosen company and institution. Introducing students to the activities of the chosen company or institution, to the ways of doing business, management and place and role of the engineer in their organizational structures.						
3. Course content/structure:						
It is created individually for each candidate, in agreement with the company or institution management where professional practice is taking place, and in accordance with the needs of profession for which the student is being trained.						
4. Teaching methods:						
Consultations and professional practice journal writing where the student describes activities done during the professional practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Literature						
Ord.	Author	Title			Publisher	Year



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	Mechatronics	

Table 5.2 Course specification

Course:		Automation of work processes				
Course id: H1403						
Number of ECTS: 7						
Teachers:		Šešlija D. Dragan, Stankovski V. Stevan, Jocanović T. Mitar, Ostojić M. Gordana, Dudić P. Slobodan, Šormaz N. Dušan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:	
4		0	4	0	0	
Precondition courses						
None						
1. Educational goal:						
The aim of the course is that students gain knowledge in control techniques that are used in pneumatic, electro-pneumatic, electro-hydraulic and hydraulic systems.						
2. Educational outcomes (acquired knowledge):						
The outcome of the subject is knowledge in control techniques that are used in pneumatic, electro-pneumatic, electro-hydraulic and hydraulic systems.						
3. Course content/structure:						
The choice of automation techniques. Pneumatic control systems. Hydraulic control systems. Electro-pneumatic control systems. Electro-hydraulic control 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,	Vladimir Savić	Uljna hidraulika		IKOS, Novi Sad	1997	
2,	E. Pashkov, Y. Osinsky, A. Chetiviorkin	Electropneumatics in Manufacturing Processes		FESTO Didactic	2004	
3,	Dragan Šešlija	Automatizacija procesa rada - pneumatika (skripta)		FTN	2012	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
	<p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES</p>	<p>Mechatronics</p>

Table 5.2 Course specification

Course:		Mechatronics			
Course id:	H1404				
Number of ECTS:	7				
Teacher:	Borovac A. Branislav				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
4	0	4	0	0	
Precondition courses					
None					
1. Educational goal:					
Introducing students to basic terms in the field of mechanical vision; introduction to contemporary methods in mechanical vision.					
2. Educational outcomes (acquired knowledge):					
Review of the contemporary procedures in mechanical vision. Ability to understand fundamental principles and methods utilized in digital image processing, ability to independently realize simple systems of digital image processing, as well as possibility to simply expand knowledge with working on a certain problem.					
3. Course content/structure:					
Introduction to digital image processing – Basic terms in image processing – Image improvement in spatial domain – Image improvement in frequency domain – Image restoration – Colour image processing – Morphological image processing – Image segmentation.					
4. Teaching methods:					
Lectures; Computer practical classes; Consultations					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Complex exercises		Yes	70.00	Project defence	Yes 30.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	D. Shetty, R. Kolk	Mechatronics System Design		PWS Publishing Company, ISBN 0-534-95285-2.	1997
2,	V. Miltenović	Mašinski elementi-oblici, proračun, primena,		Mašinski fakultet u Nišu, ISBN 86-80587-12-5	2001
3,	H.D. Stolting, W. Backe, H. Janocha	Actuators: Basics and Applications		Springer-Verlag, ISBN-10: 3540615644	2003
4,	W. H. Yeadon, A. W. Yeadon, B. Esposito	Handbook of Small Electric Motors		McGraw-Hill, ISBN-13: 978-0070723320	2001



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Optimization Methods			
Course id:	H1405				
Number of ECTS:	5				
Teachers:	Jeličić D. Zoran, Kulić J. Filip, Rapaić R. Milan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses					
None					
1. Educational goal:					
The main objective of the course is to acquire knowledge on the types of optimization methods and the possibilities for their application in solving problems in power engineering systems.					
2. Educational outcomes (acquired knowledge):					
Knowledge on the models and problems in the application of static optimization methods. Knowledge on the models and problems in the application of numerical methods. Knowledge on the models and problems in the application of dynamic programming methods. Knowledge on the models and problems in the application of global optimization methods.					
3. Course content/structure:					
Fundamentals in optimization. Graphic optimization methods. Static optimization methods. Linear and network programming: linear programming, primal and dual Simplex method, interior point method, transport problem, etc. Nonlinear programming: minimization of function in certain direction, etc. Numerical methods for solving optimal management: gradient method, Newton-Raphson method, etc. Dynamic programming in power engineering (discrete dynamic programming problem, solving discrete dynamic programming, typical examples of dynamic programming). Lagrange methods (problems and examples of application, comparison with linear programming). Global optimization: genetic algorithm.					
Part of the course is conducted through individual research and study work in the field of optimization methods in power engineering. The study and research work is based on active study of primary scientific sources, organization and performance of experiments and statistic data processing, numerical simulations, and writing a paper in the narrow scientific area within the topic of the Doctoral dissertation.					
4. Teaching methods:					
Lectures. Study and research.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	30.00	Coloquium exam	No 20.00
				Coloquium exam	No 20.00
				Oral part of the exam	Yes 30.00
				Practical part of the exam - tasks	Yes 40.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. Petrić, S. Zlobec	Nelinearno programiranje		Naučna knjiga, Beograd	1983
2,	B. Vujanović, D.Spasić	Metodi optimizacije		Univerzitet u Novom Sadu	1998
3,	Z. Jeličić	Štampani materijal koji pokriva pojedina izlaganja i vežbe			2005
4,	Dimitri P. Bertsekas	Nonlinear Programming		Athena Scientific	2004



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Computer Integration of Production Systems				
Course id:	H1504					
Number of ECTS:	6					
Teachers:		Ostojić M. Gordana, Šešlija D. Dragan, Dudić P. Slobodan, Šormaz N. Dušan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
3	0	3		0		0
Precondition courses		None				
1. Educational goal:						
Mastering the content in the field of computer integration of production systems.						
2. Educational outcomes (acquired knowledge):						
The competence to critically analyze the existing solutions and synthesize the original solutions in the field of computer integration of production systems.						
3. Course content/structure:						
Overview of modern programme tools for developing communication systems. Overview of modern communication protocols and systems. Overview of modern surroundings for testing and verifying communication systems. Identifying possible directions for further research. Flexible production systems. Transfer lines. Defining the theme and the task. Realization. Experiments. Paper elaboration. Review and paper defence. Publishing the paper.						
4. Teaching methods:						
Lectures are elaborated through the introduction into current and possible new directions in research in introductory lectures, followed by the selection of the theme and formulation of the task in cooperation with the supervisor, the elaboration of a simulator, laboratory models and solution prototypes in the laboratory, a series of laboratory experiments with the task of gathering necessary data, paper elaboration, and the review by the lecturer.						
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,	U. Rembold, B.O. Nnaji	COMPUTER INTEGRATED MANUFACTURING AND ENGINEERING			Prentice Hall	1993
2,	P. Ranky	COMPUTER INTEGRATED MANUFACTURING: An Introduction with Case Studies			Prentice-Hall International	1996
3,	Ostojić, G., Šešlija, D.,	RAČUNAROM INTEGRISANI PROIZVODNI SISTEMI-skripta			FTN	2012
4,	Homem De Mello S. L., Lee, S. I	Computer-Aided Mechanical Assembly Planning			Springer	1991



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	Mechatronics	

Table 5.2 Course specification

Course:		Motor Vehicle Mechatronics				
Course id:	H2402					
Number of ECTS:	6					
Teacher:	Časnji F. Ferenc					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
2	0	2		0		2
Precondition courses						
None						
1. Educational goal:						
Acquiring knowledge on motor vehicle equipment, excluding their driving aggregate – engine.						
2. Educational outcomes (acquired knowledge):						
Multidisciplinary engineering knowledge in the field of general vehicle equipment, especially in the field of modern car electrics and electronics, necessary for independent work in automobile industry.						
3. Course content/structure:						
Vehicles motion theory fundamentals - wheel rolling, motion resistance forces, adhesion and wheel slip. Vehicle design fundamentals - transmission, wheel, elastic suspension system, steering system, braking system. Automotive sensors, actuators, controllers and communication networks. Mechatronics within the brake system (ABS, SBC, BAS), transmission (automatic gearboxes, TCS), suspension (active suspension) and steering system (ESP, Sensotronic, Drive by Wire). Mechatronic systems for driving automation (Cruise control, ACC). Other integral vehicle mechatronic systems.						
4. Teaching methods:						
Teaching forms: Lectures, practical classes, fairs and companies visits, consultations.						
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 70.00
Lecture attendance		Yes	5.00			
Test		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title			Publisher	Year
1,	Časnji F.	Mehatronika motornih vozila (izvodi sa predavanja)				2006
2,	Časnji F., Klinar I., Muzikarović V.	Savremene tendencije u automobilskoj tehnici			DDOR Novi Sad, Novi Sad	2001



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Table 5.2 Course specification

Course:		EC Engines Mechatronics						
Course id: H2421								
Number of ECTS: 7								
Teacher:		Dorić Ž. Jovan						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
3		3		0		0	0	
Precondition courses None								
1. Educational goal:								
Acquireing wide knowledge and skills in the filed of IC Engines and motor vehicles testing.								
2. Educational outcomes (acquired knowledge):								
Ability for independent and creative using of knowledge and skills, solving specific and non routinne problems and understanding new tendencies in the process of IC Engines and motor vehicles testing.								
3. Course content/structure:								
General on IC engines testing. Goals and types of IC engines testing. Testing organization and conducting. Report on testing. Review of size and parameters which are tested. Measurement equipment for engines testing: general and specific. Stands for engines testing. Engine breaks: mechanic, air, hydraulic and electric. Diagram of break characteristics. Break testing in terms of operation stability. Certain parameters and engine characteristics recording: power, torque, fuel and lubricant consumption, mechanical losses, content of fumes, characteristic temperatures, oil pressure, etc. Spead characteristics, load characteristics, engine idle speed and other characteristics of engines on the stand. Special procedures in engine testing. General on motor vehicle testing. Goal, type, organization and conduction of vehicle testing. Universal and specific measurement equipment. Internationa and home standards in the field of vehicle testing. Determination of basic vehicle characteristics: dimentions, weight and axle load, barycentar position and vehicle inertia moment. Vehicle operation load testing and their systems. Determination of speed, acceleration, outer resistance and realized power. Vehicle dijagnostics. Vehicle parts testing – safety related parts testing. Agricultural tractors testing.								
4. Teaching methods:								
Lectures, laboratory practical classes (field testing), constructions.								
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
Graphic paper			Yes	20.00				
Lecture attendance			Yes	5.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Torović, T., AntoniĆ, Ž.		Osnovi motora SUS			FTN, Novi Sad		1994
2,	Torović, T., AntoniĆ, Ž.		Osnovi motora SUS			FTN, Novi Sad		1997
3,	Tomić, M., Petrović, S.		Motori sa unutrašnjim sagorevanjem			Mašinski fakultet, Beograd		1994



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Graphic Communications and CAD						
Course id: M2610								
Number of ECTS: 7								
Teachers:		Navalušić V. Slobodan, Vladić M. Jovan						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
4		0		4		0	0	
Precondition courses		None						
1. Educational goal:								
Development of spatial imagination and visualization, acquiring engineering knowledge on the most rational graphic representation of combined forms. Teaching students to be able to independently develop technical drawing manually or using a computer.								
2. Educational outcomes (acquired knowledge):								
Acquired knowledge is used in profession, individual work, and in further education.								
3. Course content/structure:								
Introduction to the course, a notion of visual communication and its significance. Studying the areas of pictograms, logotypes, signums and trade marks. From pictograms from the Palaeolithic era to pictograms in urban areas and computer communication. Form of graphically simplified symbols in visual communication. Classification of pictograms according to form and purpose. Visual communication in interior and exterior. PRACTICE 1: Pictogram, given topic, 3 pcs. Notion of logotype. Logotype for a company, product or manifestation. PRACTICE 2: Logotype, given topic, 3 pcs. Trade marks and classification methods. Redesign of marks and example analysis. Visual identity. Basic standards in making a visual identity of a company, manifestation or product. Mark, logotype, colour, lettering, marking in interior and exterior, business documentation and stationary. Modes of presenting the designer's work. Design of a contemporary modelled trade mark. Brand and elements influencing the brand creation. Examples from domestic and foreign practice. Graphic standards. In this segment, students apply the acquired knowledge from the previous exercises and present their result through a complex task. Book of graphic standards, explanations and examples. PRACTICE 3: Trade mark and logotype. PRACTICE 4: Application onto the business documentation (memorandum, envelop, business card).								
4. Teaching methods:								
Lectures. Computer (C) practice. Consultations.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Computer exercise attendance			Yes	5.00	Oral part of the exam		Yes	30.00
Lecture attendance			Yes	5.00				
Project			Yes	30.00				
Project task			Yes	15.00				
Project task			Yes	15.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Vladić J.		Automatizovano projektovanje, skripta			FTN, Novi Sad		2007
2,	Jovanović M.		Teorija projektovanja konstrukcija računarom			MF, Niš		1994
3,	Jovanović M., Jovanović J.		CAD/FEA praktikum za projektovanje u mašinstvu			MF Niš i MF Podgorica, Podgorica		2000
4,	Nader G. Zamani		CATIA V5 FEA Tutorials			University of Windsor		2006
5,	R. Cozzens		CATIA V5 Workbook			Southern Utah University		2006



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Biosystem Machines 1				
Course id:	M304					
Number of ECTS:	5					
Teachers:		Martinov L. Milan, Veselinov V. Branislav				
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 fundamental knowledge on agricultural machines.						
2. Educational outcomes (acquired knowledge):						
Knowledge on technologies and agricultural production machines.						
3. Course content/structure:						
Study programme, projects, literature, role of engineers in biosystems. Patents, development tendencies, innovations, standards. Occupational safety in operating agricultural machines, construction solutions. Land cultivation – procedures. Basic and additional land cultivation. Modern land cultivation procedures – conservation processing. Mineral fertilizers distribution. Organic fertilizers distribution. Chemical protection procedure. Biomaterials characteristics. Biomaterials cutting. Trnalatorz mowing equipment. Rotary mowing equipment. Mowing machines. Combines. Agricultural machine transport. Biomaterials pressing. Separation and classification of herbal materials.						
4. Teaching methods:						
Auditory classes and laboratory practice, visits to farms and agricultural machine factories visits.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Exercise attendance			Yes	5.00	Final exam - part one	Yes 20.00
Homework			Yes	5.00	Final exam - part two	Yes 50.00
Homework			Yes	5.00		
Homework			Yes	5.00		
Homework			Yes	5.00		
Lecture attendance			Yes	5.00		
Literature						
Ord.	Author	Title			Publisher	Year
1,	Tešić, M., Martinov, M.	Predlošci za nastavu iz poljoprivrednih mašina			Institut za mehanizaciju Fakulteta tehničkih nauka, Novi Sad	2001
2,	Tešić, M.	Principi rada mašina za žetvu travnatih materijala			Institut za mehanizaciju Fakulteta tehničkih nauka, Novi Sad	1984
3,	Vojvodić, M. at al.	Mehanizacija poljoprivredne proizvodnje I, Mehanizacija u biljnoj proizvodnji			„Pro agrar“, Zemun-Vinkovci	1992

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	Mechatronics	

Table 5.2 Course specification

Course:		Bachelor Thesis			
Course id:	H14ZR				
Number of ECTS:	8				
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	5	
Precondition courses		None			
1. Educational goal:					
Application of basic, acquired knowledge and methods in solving specific problems within the chosen field. The student studies the problem, its structure and complexity, and based on the conducted analysis makes conclusions about possible ways of solving it. By studying the literature, the student is introduced to the methods of solving similar problems and to the practice in solving them. Acquiring knowledge about the way, structure and form of report-writing, after conducting analysis and other activities carried out within the given Bachelor Thesis topic. By writing the Bachelor Thesis, students gain experience in paper writing which requires problem description, methodology and procedures, and obtained results. Besides, the objective of writing and defending the Bachelor Thesis is to develop student ability to prepare and publically present results of their independent work in the adequate form, as well as to answer the objections and questions related to the given topic.					
2. Educational outcomes (acquired knowledge):					
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 mentor and in accordance with the standards of the Faculty of Technical Sciences. The student prepares and defends the Bachelor Thesis publically in agreement with the mentor 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 mentor 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, mentor 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 mentor, 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 board for assessment and defense. Defense of the Bachelor Thesis is public and the student is obliged to orally answer the questions and objections					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Writing the final paper with theoretic basis		Yes	50.00	Final exam defence	Yes 50.00



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	<h2 style="margin: 0;">Study Programme Accreditation</h2>	
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Table 5.2 Course specification

Course:		Material Handling Technologies				
Course id:	H1401					
Number of ECTS:	6					
Teachers:		Dudić P. Slobodan, Šešlija D. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
3	0	2		0		1
Precondition courses		None				
1. Educational goal:						
The educational objective to be achieved is to acquire basic knowledge of material handling technologies in the production and service business systems, as well as about the components which enable there implementation.						
2. Educational outcomes (acquired knowledge):						
Students who enroll to the course and pass the exam are able to define requirements for material handling, to make the conception of material handling system, to select the proper equipment for it, and to analyse the existing material handling system in the enterprise.						
3. Course content/structure:						
The definition and classification of material handling systems (MH). Material handling in the workplace. Transport. Storage. Stages of material flow. The structure of the system for material handling. The quality of the functioning of the MH: Effect of transportation, transportation work, the time effect of MH. Load effect of MH. Transportation time. The transportation cycle. MH costs. Subsystems for the MH system. Selection of means for MH. Automation systems for RM.						
4. Teaching methods:						
Teaching includes lectures on the subject, with examples of application systems for material handling in the workplace as well as in transport and storage functions in a manufacturing and service systems and auditory exercises within which student has to elaborate specific examples from the lecture topics. The exam is taken firstly by defending the semester work that is a prerequisite for the final exam and the and the final exam is a test of the theory.						
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,	D. R. Sule	MANUFACTURING FACILITIES Location, Planning and Design			PWS PUBLISHING COMPANY BOSTON USA	1994
2,	Dragan Šešlija, Slobodan Dudić	Tehnologije rukovanja materijalom (skripta)			FTN Novi Sad	2012



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Intelligent Systems				
Course id: H1409						
Number of ECTS: 5						
Teachers:		Stankovski V. Stevan, Ivandić I. Željko, Jovanović M. Vukica				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		0	2	0		2
Precondition courses		None				
1. Educational goal:						
The aim of the course is that students master the areas of artificial intelligence and programming techniques in these areas.						
2. Educational outcomes (acquired knowledge):						
The outcome of the subject is knowledge in artificial intelligence and programming techniques in this area.						
3. Course content/structure:						
Mathematical logic; Programming language PROLOG; The state space; Production systems; Search strategies; Knowledge representation; Machine learning; Expert systems; Neural networks; Fuzzy logic; Genetic algorithms; Swarm Intelligence; Intelligent agents; Intelligent devices; Intelligent networks; Intelligent 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,	Jocković M., Ognjanović Z., Stankovski S.		Veštačka inteligencija, inteligentne mašine i sistemi		1997	
2,	Bojić D., Velašević D., Mišić V.		Zbirka zadataka iz ekspertnih sistema		1996	
3,	Stevan Stankovski		Inteligentni sistemi - skripta		Fakultet tehničkih nauka 2012	
4,	Dragan Kukulj		Sistemi zasnovani na računarskoj inteligenciji		Fakultet tehničkih nauka 2007	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Table 5.2 Course specification

Course:		Systems for Surveillance and Visualisation of Process				
Course id: H1501A						
Number of ECTS: 6						
Teachers:		Ostojić M. Gordana, Stankovski V. Stevan, Kozak V. Dražen, Ivandić I. Željko				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
3		0	3		0	0
Precondition courses		None				
1. Educational goal:						
The aim of the course is that the students gain knowledge and skills for applying systems for monitoring and visualization of processes in industrial systems.						
2. Educational outcomes (acquired knowledge):						
The outcome of the subject is the knowledge that gives the students the opportunity to apply systems for monitoring and visualization of processes in industrial systems.						
3. Course content/structure:						
Signal acquisition; monitoring and processing of events; process management; data collection from industrial processes; Chronology of events and Analysis; Visualisation process; Calculation and reports; special functions; Telemetry; HMI and MMI interfaces; Displays; WEB oriented systems; surveillance systems for non-industrial processes; security in surveillance 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 and the final exam. The requirement for taking the final exam is that the student must successfully complete the project. The final exam is in written form.						
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,	Barfield L.	The User Interface Concepts and Design			Addison Wesley	1993
2,	B. M. Weedy, B. J. Cory	Electric Power Systems, 4th Edition			Wiley	1998
3,	Lindsay W. MacDonald, Anthony C. Lowe	Display Systems: Design and Applications			Wiley	1998
4,	N. Kirianaki, S. Yurish, N. Shpak, V. Deynaga	Data Acquisition and Signal Processing for Smart Sensors			Wiley	2002
5,	Ostojić, G., Stankovski, S.	Sistemi za nadgledanje i vizuelizaciju procesa - skripta			FTN	2012



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

Table 5.2 Course specification

Course:		Driving Systems Mechatronics				
Course id:	H2404					
Number of ECTS:	6					
Teacher:		Šostakov S. Rastislav				
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:						
Expanding knowledge in the field of driving systems designing.						
2. Educational outcomes (acquired knowledge):						
Acquiring fundamental knowledge for scientific and research work in this field, high level of ability for designing work in the field of mechanical structures.						
3. Course content/structure:						
Working devices - classification, parameters, demands and restrictions. Driving motors – classification, energy and preparation, demands and restrictions. Characteristics of some types of driving motors. Power gear in a system: driving motor – work device. Characteristics of power transmitting devices (gear ratio, degree of utilization). Stationary and transient operating regime. Change of drive speed, efficiency, breaking, reversible work, self breaking. Multi motor drives, synchronization of operation. Power summing and dividing devices. Integration of driving system, control and regulating subsystems. Control systems, Control over computer.						
4. Teaching methods:						
Mentor work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Final exam - part one	Yes	20.00
Lecture attendance		Yes	5.00	Final exam - part two	Yes	20.00
Test		Yes	10.00	Practical part of the exam - tasks	Yes	30.00
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	R. Šostakov	Pogonski sistemi i upravljanje (skripta)		FTN, Novi Sad	2004	
2,	B. Jurković	Elektromotorni pogoni		Školska knjiga, Zagreb	1983	
3,	Lj. Krsmanović, A. Gajić	Turbomašine. Hidrodinamički prenosnici snage		Mašinski fakultet, Beograd	2006	



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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES</p> <p style="text-align: right; margin: 0;">Mechatronics</p>	

Table 5.2 Course specification

Course:		Mechanization Management				
Course id:	H2463					
Number of ECTS:	5					
Teacher:		Georgijević S. Milosav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
2		2	0	0		0
Precondition courses						
1. Educational goal:						
ntroducing students with the specific mechanisms used in process lines, developing synthesis analysis of specific mechanisms.						
2. Educational outcomes (acquired knowledge):						
Enabling students for application of specific mechanisms in practical problems as well as mechanism designing for real application.						
3. Course content/structure:						
Specific mechanisms used in process mechanical engineering. Gearing with changable transmittal relation. Centroid gearing. Wave gearing. Movement transformation mechanisms. Mathematical functions. Mechanisms with discontinuous movement. Application of non standard Geneva mechanisms. Non-cutting stroke mechanisms. Cam Mechanisms designing. (geometry, kinematics and dynamics, synthesis). Joinability, movability and efficiency of flat and spatial mechanisms. Automation of procedures of kinematic and dynamic analysis of mechanisms. Synthesis of mechanisms for kinematic task realization. Optimal synthesis for real application.						
4. Teaching methods:						
Lecture forms: lectures, auditory and computer practical classes, consultations.						
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
Lecture attendance			Yes	5.00		
Presentation			Yes	10.00		
Project			Yes	50.00		
Literature						
Ord.	Author	Title			Publisher	Year
1,	Georgijević, M.	Regalna skladišta			Mala velika knjiga, Novi sad	1995
2,	Georgijević M.	Pretovar kontejnera			pripremljena za štampu (kod Naučne knjige)	1992
3,	Stanković D.	Fizičko- tehnička merenja			Naučna knjiga, Beograd	1987
4,	Milojković B, Grujić Lj.	Automatsko upravljanje			Mašinski fakultet, Beograd	1990
5,	Kovačević B, Đurović Ž.	Sistemi automatskog upravljanja			Naučna knjiga, Beograd	1995
6,	Hausmann G.	Automatisierte Lagern			Krausskopf-Verlag, Mainz	1972



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

Table 5.2 Course specification

Course:		Building Machines Mechatronics						
Course id: H2464								
Number of ECTS: 6								
Teacher:		Malešev T. Petar						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
3		3		0		0	0	
Precondition courses None								
1. Educational goal:								
Enabling students for acquiring new knowledge on metallurgy, measurement technology, processing and analysing data.								
2. Educational outcomes (acquired knowledge):								
Acquired knowledge is used as a basis for application of experimental analysis in the field of design, testing and maintenance of machines, devices and construction.								
3. Course content/structure:								
General principles. Experimental analysis, legal metrology, Measurement chain and its elements. Fundamental characteristics of measurement systems. Statistical features, Calibration, Dynamic characteristics, Transmission function of measurement systems. Classification and process description. Accuracy class, Signal analysis in time, amplitude and frequency, Determination and random processes, Errors. Mechanical values measurements. Measurement methods. Measurement data preparation. Measurement methods for measuring vibration, LBDT, Vibration analysis on rotating machines. Spectral maps, Phase Analysis, Campbell's diagram, Orbital analysis. Modal analysis, Oscillating forms, Modal parameters determination. Technical diagnostic and maintenance. Measurement basics and noise analysis.								
4. Teaching methods:								
Lectures. Auditory and laboratory practical classes.								
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
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,	Malešev, P.		Hidroprenosnici u mehanizaciji, skripta			FTN-Noví Sad		2010
2,	Plavšić, M.		Građevinske mašine			Naučna knjiga, Beograd		1990



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary trends and situation in profession, science and art in adequate educational scientific or educational artistic field and it is compatible with similar programmes in international higher education institutions.

The study programme of Mechatronics is created as a comprehensive programme and provides students latest scientific knowledge in the field.

The programme of Mechatronics is comparable and coordinated with the following faculties:

1. <http://www.et.tu-dresden.de/mechatronik-diplom/ET.html>

2. <http://www.tu-ilmenau.de/modultafeln/Mechatronik/Bachelor/2008/>

3. <https://uwaterloo.ca/mechanical-mechatronics-engineering/future-undergraduate-students/mechatronics-engineering/program-overview</eng>>



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 07. Student Enrollment

The Faculty of Technical Science, in accordance with social demands and its resources, enrolls students to adequate study programme based on their success in the previous education and entrance examination testing their knowledge, aptitudes and skills. Selection of students and their enrolment is based on success in previous education and success in the enrolment exam and in accordance with Faculty Regulation for student enrolment to study programmes.

Students from other study programme can transfer to this study programme as well as persons who completed studies. The evaluation commission, evaluates all passed exams and on the bases of recognized exams decides whether the candidate's previous success can completely or partially be recognized. The Commission can require appropriate additional differential exam or not to recognize any of the previously passed exam.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 08. Student Evaluation and Progress

The evaluation of students is performed by continual monitoring of students' accomplishments and the points obtained in fulfilling prerequisites and taking examinations.

The students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme of graduate academic studies in Mechatronics.

Each course at the study programme has a set number of ECTS credits which students obtain on successfully passing the examination. Students' success in mastering a certain course is constantly monitored during classes and is presented in points. Maximum number of points obtained in a course is 100. Students obtain points from a course through their work during classes, fulfilment of their prerequisites and taking the examination. Each course at the study programme has a clear and publicly known mode of obtaining points.

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

For a student to be allowed to take an exam, he/she needs to be awarded at least 15 ECTS credits in subject's prerequisites. Additional terms for taking an exams are defined for each subject individually. Student's advancement during the studying is determined by Regulations for studying at graduate academic studies.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 09. Teaching Staff

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



Total number of lecturers and associates employed at the study programme is adequate to accomplish the total number of classes in the study programme so that the professor performs on average 180 active classes annually (lectures, consultations, practical classes, practical work, etc), that is 6 classes weekly. All necessary lecturers are full time employed at the Faculty.

Number of associates corresponds the needs of the study programme. Total number of associates in study programme is enough to cover total number of classes so that associates realize 300 classes on average of active classes annually, that is 10 classes weekly.

Scientific and professional qualifications of lecturers and assistants is in relation to educational and scientific field. Each professor has at least five references in the professional field in which he/she performs the lectures.



Group size for classes is up to 32, practical classes groups is up to 16, and laboratory practical classes groups up to 8 students.



None of the professors has more than 12 classes weekly. All data on lecturers and assistants (CV, references) are publicly available.

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	<h2 style="margin: 0;">Study Programme Accreditation</h2> <p style="margin: 0;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>	

Science, arts and professional qualifications



Name and last name:		Atanacković M. Teodor	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		18.03.1975	
Scientific or art field:		Deformable Body Mechanics	
Academic career	Year	Institution	Field
Academic title election:	1988	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
PhD thesis	1974	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	1973	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Bachelor's thesis	1969	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A237	Material Resistance	(A00) Architecture, Undergraduate Academic Studies
2.	H202	Strength of materials	(H00) Mechatronics, Undergraduate Academic Studies
3.	A002S	Scientific Research Method	(A00) Architecture, Specialised Academic Studies (E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (G10) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
4.	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
5.	DZ001	Scientific Research Method	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies



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<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
6.	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		
7.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	T. M. Atanackovic, Stability Theory of Elastic Rods. World Scientific, 1997.				
2.	T. M. Atanackovic, A. Guran, Theory of Elasticity for Scientists and Engineers. Birkhauser, 2000..				
3.	B. D Vujanovic, T. M. Atanackovic, An Introduction to Modern Variational Techniques in Mechanics and Engineering. Birkhauser, Boston 2004..				
4.	T.M. Atanackovic, Stability of a Compressible Elastic Rod with Imperfections. Acta Mechanica. 76, 203?222 (1989)..				
5.	T.M. Atanackovic and M. Achenbach, Moment-curvature relations for a pseudoplastic beam. Continuum Mech. Thermodyn. 1, 73-80 (1989)...				
6.	T.M. Atanackovic and I. Müller, A New form of ther Coherency Energy in Pseudoelasticity. Meccanica, 30, 467-474 (1995).				
7.	T. M. Atanackovic, Optimal shape of column with own weight: bi and single modal optimization. Meccanica 41, 173-196 (2006).				
8.	T. M. Atanackovic, S. Pilipovic, D. Zorica, Diffusion wave equation with two fractional derivatives of different order. J. Phys. A: Math. Theor. 40, 5319-5333 (2007).				
9.	T. M. Atanackovic, Optimal shape of an elastic rod in flexural – torsional buckling. Z. Angew. Math. Mech.(ZAMM) 87, No. 6, 399 – 405 (2007).				
10.	T. M. Atanackovic and B. N. Novakovic, Optimal Shape of an elastic column on elastic foundation. European J. Mechanics, A/Solids, 25, 154-165 (2006).				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			220		
Total of SCI(SSCI) list papers :			120		
Current projects :			Domestic :	1	International : 0

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	Mechatronics	

Science, arts and professional qualifications

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



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



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

Science, arts and professional qualifications

Name and last name:		Berić B. Andrijana	
Academic title:		Lecturer	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		04.11.2004	
Scientific or art field:		German	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	German
Master's thesis	2009	Faculty of Philology - Beograd	German
Bachelor's thesis	2003	Faculty of Philosophy - Novi Sad	German
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F330	German Language – LSP Course 1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	F331	German Language – LSP Course 2	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	NJ01Z	German Language – Elementary	(A00) Architecture, Undergraduate Academic Studies (AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies (F00) Graphic Engineering and Design, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	NJ02L	German Language – Pre-Intermediate	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies (S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies



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

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



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



Science, arts and professional qualifications

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

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

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



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		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies		
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	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				



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

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



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



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

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

Science, arts and professional qualifications



Name and last name:		Budinski-Petković M. Ljuba	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1989	
Scientific or art field:		Physics	
Academic career	Year	Institution	Field
Academic title election:	2009		Physics
PhD thesis	1998	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1996	Faculty of Physics - Beograd	Physics
Bachelor's thesis	1988	Faculty of Sciences - Novi Sad	Physics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E215	Physics	(E20) Computing and Control Engineering, Undergraduate Academic Studies
2.	H101	Physics	(F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
3.	IAFI01	Colors and Light	(F10) Engineering Animation, Undergraduate Academic Studies
4.	BMI93	Physics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
5.	DZ01FS	Selected Chapters in Physics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
6.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Budinski-Petković Lj., Lončarević I., Petkovic M., Jaksic Z., Vrhovac S.: Percolation in random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2012, Vol. 85, No 061117, pp. 1-8		
2.	Šćepanović J., Lončarević I., Budinski-Petković Lj., Jakšić Z., Vrhovac S.: Relaxation properties in a diffusive model of k-mers with constrained movements on a triangular lattice, Physical Review E, 2011, Vol. 84, No 031109, pp. 1-13		
3.	Budinski-Petković Lj., Lončarević I., Jakšić Z., Vrhovac S., Švrakić N.: Simulation study of anisotropic random sequential adsorption of extended objects on a triangular lattice, Physical Review E, 2011, Vol. 84, No 5, pp. 5160-1		



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
4.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468		
5.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2		
6.	Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates, Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7		
7.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice, The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941		
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice, Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9		
9.	Arsenović D., Vrhovac S., Jakšić Z., Budinski-Petković Lj., Belić A.: Simulation study of granular compaction dynamics under vertical tapping, Physical Review E, 2006, Vol. 74		
10.	Lj. Budinski-Petković and S. B. Vrhovac: Memory effects in vibrated granular systems: Response properties in the generalized random sequential adsorption model, The European Physical Journal E, 2005, Vol. 16, pp. 89-96, ISSN 1292-8941		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		75	
Total of SCI(SSCI) list papers :		30	
Current projects :		Domestic :	1
		International :	1

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

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

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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI034	Multi-tier applications development in Smart Grids	(ES0) Power Software Engineering, Master Academic Studies
15.	SEAM06	Integration of Distributed Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
16.	DAU006	Selected Chapters in Modeling and Simulation of Dynamic Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
17.	DAU018	Selected Chapters in Distributed Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
18.	ZRD25A	Selected chapters from Artificial Ingeligence	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N., „Optimization of workflow scheduling in Utility Management System with hierarchical neural network“, International Journal of Computational Intelligence Systems., Vol. 4, No. 4, pp. 672-679, 2011., ISSN 1875-6891		
2.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „A novel software architecture for Smart Metering systems“, Journal of Scientific and Industrial Research, Vol. 2010, No. 12, pp. 937-941, 2010., ISSN 0022-4456		
3.	Čapko D., Erdeljan A., Vukmirović S., Lendak I., „A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems“, Information technology and control, Vol. 40, No. 4, 2011., ISSN 1392-124X		
4.	Čapko D., Erdeljan A., Popović M., Švenda G., „An Optimal Initial Partitioning of Large Data Model in Utility Management Systems“, Advances in Electrical and Computer Engineering, No. 4, 2011., ISSN 1582-7445		
5.	Nedić N., Vukmirović S., Erdeljan A., Lendak I., Čapko D., „ A Genetic Algorithm Approach for Utility Management System Workflow Scheduling “, Information technology and control, Vol. 39, No. 4, pp. 310-316, 2010., ISSN 1392-124X		
6.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., „Extension of the Common Information Model with Virtual Meter“, Electronics and electrical engineering, Vol. 107, No. 1, pp. 59-64, 2011., ISSN 1392-1215		
7.	Čapko D., Erdeljan A., Švenda G., Popović M., „Dynamic Repartitioning of Large Data Model in Distribution Management Systems“, Electronics and electrical engineering, Vol. 121, No. 4, pp. 83-85, 2012., ISSN 1392-1215		
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., „Optimal Workflow Scheduling in Critical Infrastructure Systems with Neural Networks“, Journal of Applied Research and Technology, Vol. 10, No. 2, pp. 114-121, 2012., ISSN 1665-6423		
9.	Vukmirovic, Srdjan; Erdeljan, Aleksandar; Lendak, Imre; Capko, Darko: Unifying the Common Information Model (CIM), REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE 2012 57 (3):301-310		
10.	Velimir Congradac, Marta Prica, Marija Paspalj, Dubravka Bojanic, Darko Capko: Algorithm for blinds control based on the optimization of blind tilt angle using a genetic algorithm and fuzzy logic, Solar Energy 86 (2012), pp 2762–2770		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	International :
		1	0

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

Science, arts and professional qualifications

Name and last name:			Časnji F. Ferenc		
Academic title:			Full Professor		
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad		
			30.01.1971		
Scientific or art field:			Motor Vehicles		
Academic carieer	Year	Institution		Field	
Academic title election:	1996	Faculty of Technical Sciences - Novi Sad		Motor Vehicles	
PhD thesis	1985	Faculty of Technical Sciences - Novi Sad		Motor Vehicles	
Magister thesis	1977	Faculty of Agriculture - Novi Sad		Motor Vehicles	
Bachelor's thesis	1971	Faculty of Mechanical Engineering - Novi Sad		Motor Vehicles	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name		Study programme name, study type	
1.	H2402	Motor Vehicle Mechatronics		(H00) Mechatronics, Undergraduate Academic Studies	
2.	M2404A	Motor Vehicles		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies	
3.	M303	Fundamentals of Motor Vehicles		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies	
4.	M310A	Road Vehicle Theory		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies	
5.	S0I361	Road Vehicles		(S00) Traffic and Transport Engineering, Undergraduate Academic Studies	
6.	ZR403A	Motor vehicles operation safety		(Z01) Safety at Work, Undergraduate Academic Studies	
7.	M2515	Motor Vehicle Simulation and Modelling		(M22) Mechanization and Construction Engineering, Master Academic Studies	
8.	M2549	ROAD TRAFFIC FORENSIC ENGINEERING		(M22) Mechanization and Construction Engineering, Master Academic Studies	
9.	LIM14	Monitoring and Diagnostics of Transportation Means		(LIM) Logistic Engineering and Management, Master Academic Studies	
10.	H797	Mechatronics in mechanization - advanced topics		(H00) Mechatronics, Master Academic Studies	
Representative references (minimum 5, not more than 10)					
1.	Časnji F: Ergonomski nedostaci poljoprivrednih traktora, Monografija, Fakultet tehničkih nauka, Novi Sad, 1991, str.157.				
2.	Časnji F., Ružić D: Pregled ergonomskih karakteristika traktora velike snage, Monografija povodom 30 godina izdavanja časopisa MVM, Kragujevac, 2005. str. 9-19.				
3.	Časnji F.,Stojić B: Razvoj hibridnih elektro-dizel traktora, Traktori i pogonske mašine, 13 (2008)4, Novi Sad 54-59				
4.	Časnji F., Torović T., Muzikravić V: Energetska efikasnost traktora, Monografija, Fakultet tehničkih nauka - Novi Sad, 2009, str. 180				
5.	Ružić D., Časnji F.: Therma Interaction Between a Human Body and Vehicle Cabin, in: Heat transfer Phenomena and applications, ed. Salim N. Kazi, Vol. 1, pp. 295-318, In Tech. Rijeka, 2012.				
6.	Časnji F: Smanjenje potrošnje goriva pomoću mehatroničkih sistema u transmisiji traktora, poglavlje u monografiji "Aktuelni pravci razvoja traktora", FTN Novi Sad, 2010, str. 41-57.				
7.	Pantelić-Milinković Z., Časnji F., Demić M: Mogućnost snižavanja unutrašnje buke povećanjem akustičke apsorpcije, Zbornik radova međunarodnog naučnog simpozijuma Motorna vozila i motori, Kragujevac, 2004, str. 352-360.				
8.	Časnji F., Klinar I., Muzikravić V: Savremene tendencije u automobilskoj tehnici - mehaničke komponente i elektronski sistemi, DDOR Novi Sad, Novi Sad, 2001.god. str.80				
9.	Milidrag S., Časnji F., Muzikravić V., Poznanović N.: Sistemi upravljanja motornih vozila, monografija, Fakultet tehničkih nauka, Novi Sad, 1996, str. 137.				
10.	Časnji F., Križnar M., Milidrag S.: Stanje i pravci razvoja motornih vozila i traktora, monografija naučne konferencije sa međunarodnim učešćem „Mašinstvo za XXI vek“, Novi Sad, 1995, str. 469-484.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			38		
Total of SCI(SSCI) list papers :			0		
Current projects :			Domestic :	0	International :
					0

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

Science, arts and professional qualifications



Name and last name:	Čavić M. Maja		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 03.11.1988		
Scientific or art field:	Machine Elements, Construction Principles, Machine and Mechanism		
Academic career	Year	Institution	Field
Academic title election:	2012		Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
Magister thesis	1994	Faculty of Mechanical Engineering - Beograd	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication

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

	ID	Course name	Study programme name, study type
1.	H306	Machine Mechanics	(H00) Mechatronics, Undergraduate Academic Studies
2.	M208	Theory of Mechanisms and Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	M2409	Power and Motion Transmission	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
4.	M2410	Mechanism Synthesis	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
5.	M2525	Mechanisms	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
6.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	H570	Mechanisms in Mechatronics	(H00) Mechatronics, Master Academic Studies
8.	M2653	Power and Motion Transmission in Agricultural Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
10.	DM215	Selected Chapters in Machine and Mechanisms Theory	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	DM409	Selected Chapter in Power and Motion Transmission	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	Zlokolica M., Čavić M., Kostić M.: ABOUT THE TOOL'S MOTION IN THE POLYGONAL HOLES DRILLING APPLYING CENTRODES, Manufacturing Intelligent Design and Optimization Processes, Journal of Machine Engineering, Vol 7, No 2, 2007, pp 41-50, Editorial Institution of Wroclaw Board of Scientific Technical Societies Federation NOT, Wroclaw, Poland, 2007, ISSN 1895-7595
2.	Sorli, M., Ferraresi, C., Kolarski (Cavic), M., Borovac, B., Vukobratović, M.: Mechanics of turin parallel robot, Mechanism and Machine Theory, 1997, Vol. 32, No. 1, pp. 51-77, ISSN: 0094-114X.
3.	Kolarski (Cavic), M., Vukobratović, M., Borovac, B.: Dynamic analysis of balanced robot mechanisms, Mechanism and Machine Theory, 1994, Vol. 29, No. 3, pp. 427-454, ISSN: 0094-114X.
4.	M. Kostić, M. Čavić, M. Zlokolica: ABOUT OPTIMAL SYNTHESIS OF COMPLEX PLANAR MECHANISM, 12th IFTOMM World Congress, Besancon, France, 18-21 june, 2007, Proceedings online on www.iftomm.org, www.iftomm2007.com
5.	Čavić M., Kostić M., Zlokolica M.: POSITION ANALYSIS OF THE HIGH CLASS KINEMATIC GROUP MECHANISMS Naziv skupa: 12th IFTOMM World Congress , 12. The World Congress in Mechanism and Machine Science - IFTOMM, Besancon, 18-21 Jun, 2007, ISBN www.iftomm2007.com



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
6.	Zlokolica, M., Cavic, M., Kostic, M.: Analytical description of polygonal holes boring - General approach, Strojinski Vestnik - Journal of Mechanical Engineering, 2010, Vol. 56, No. 7-8, pp. 511-520, ISSN: 0039-2480.		
7.	Kostić M., Čavić M., Zlokolica M., Veselinović Č.: ABOUT DRIVING-TRANSMISSION SYSTEMS IN THERMOFORMING MACHINES, 2. Power Transmissions, Novi Sad, 25-26 April, 2006, pp. 509-514, ISBN 86-85211-78-6		
8.	Čavić M.: MODULARNI PRISTUP ANALIZI I SINTEZI MEHANIZAMA SA KINEMATIČKIM GRUPAMA VIŠE KLASSE, Novi Sad, 2012		
9.	Čavić M., Kostić M., Zlokolica M.: Dynamical Condition for Mechanism Synthesis, Monografija Machine Design, 2008, pp. 109-114, ISSN ISBN 978-86-7892-105		
10.	Kostić M., Čavić M., Zlokolica M.: PERFORMANCE OF LEVER-CAM DWELL MECHANISM, Machine Design, 2009, pp. 115-120, ISSN 1821-1259		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Damjanović 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 career	Year	Institution	Field
Academic title election:	2011		Electronics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Electronics
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Electronics
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H206	Introduction to Electronics	(H00) Mechatronics, Undergraduate Academic Studies
2.	H209	Digital Electronics	(H00) Mechatronics, Undergraduate Academic Studies
3.	BMI99	Electronics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	E138A	Digital Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EM407A	Computer aided design of digital integrated circuits	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE302S	Design and Characterization of Components for EMI Protection	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE502S	Micro-sensors and MEMS	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EM423	EMI and EMC in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	BMIM1B	EMI and EMC in medicine equipment	(BM0) Biomedical Engineering, Master Academic Studies
10.	DE402S	Chosen areas of analogue, digital and RF integrated circuits design	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EM510A	Advanced computer aided design of microelectronic circuits	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	DE302	Design and Characterization of Components for EMI Protection	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE502	Micro-sensors and MEMS	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
14.	DE402	Chosen areas of analogue, digital and RF integrated circuits design	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Raghavendra R., Bellew P., McLoughlin N., Stojanović G., Damjanović M., Desnica V., Živanov Lj.: Characterization of Novel Varistor Inductor Integrated Passive Devices , IEEE Electron Devices Letters, 2004, Vol. 25, No 12, pp. 778-780, ISSN 0741-3106, UDK: 10.1109/LED.2004.838321		
2.	Meničanin A., Damjanović 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.	Damjanović M., Živanov Lj., Stojanović G., Meničanin A.: Influence of Conductive Layer Geometry on Maximal Impedance Frequency Shift of Zig-zag Ferrite EMI Suppressor, IEEE Transactions on Magnetics, 2010, Vol. 46, No 6, pp. 1303-1306, ISSN 0018-9464		
4.	Meničanin A., Damjanović 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., Damjanović 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.	Damjanović M., Živanov Lj., Nađ L., Đurić S., Biberdžić B.: A Novel Approach to Extending the Linearity Range of Displacement Inductive Sensor , IEEE Transactions on Magnetics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464		
7.	Stojanović G., Damjanović 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		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6						
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>						
Representative references (minimum 5, not more than 10)							
8.	Damjanović M., Stojanović G., Desnica V., Živanov Lj., Ramesh R., Pat B., Neil M.: Analysis, design and characterization of ferrite EMI suppressors, IEEE Transactions on Magnetics, 2006, Vol. 42, No 2, pp. 270-277, ISSN 0018-9464, UDK: 10.1109/TMAG.2005.860485						
9.	Damjanović M., Živanov Lj., Đurić S., Marić A., Meničanin A., Radosavljević G., Blaž N.: Characterization and modelling of miniature ferrite transformer for high frequency applications, Microelectronics International, 2012, Vol. 29, No 2, pp. 83-89, ISSN 1356-5362						
10.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362						
Summary data for teacher's scientific or art and professional activity:							
Quotation total :		77					
Total of SCI(SSCI) list papers :		15					
Current projects :		Domestic :	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">2</td> <td style="width: 50%;">International :</td> </tr> <tr> <td></td> <td>2</td> </tr> </table>	2	International :		2
2	International :						
	2						

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

Name and last name:		Dorić Ž. Jovan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.10.2008	
Scientific or art field:		Internal Combustion Engines	
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Internal Combustion Engines
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Internal Combustion Engines
Master's thesis	2008	Faculty of Technical Sciences - Novi Sad	Internal Combustion Engines
Bachelor's thesis	2008		Internal Combustion Engines
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H2421	EC Engineers Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies
2.	M213	Machine Usage	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
3.	M2403A	IC Engines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
4.	M2523	IC Engine Equipment	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	M302	Fundamentals of IC Engines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
6.	S0I241	Internal Combustion Engines	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
7.	M2514	Simulation and design of IC engines	(M22) Mechanization and Construction Engineering, Master Academic Studies
8.	M2519	IC Engines and Vehicle Testing	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	M2553	Selected Chapters of IC Engines and Motor Vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies
10.	LIM14	Monitoring and Diagnostics of Transportation Means	(LIM) Logistic Engineering and Management, Master Academic Studies
11.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
12.	DM420	Selected Chapters – Internal Combustion (IC) Engines	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Dorić J., Klinar I.: Efficiency of a new IC engine concept with variable piston motion, Thermal Science, 2012, doi: 10.2298/TSCI110923020D, ISSN 0354-9836.		
2.	Dorić J., Klinar I.: Efficiency characteristics of a new Quasi-Constant Volume Combustion spark ignition engine, Thermal Science, 2012, doi: 10.2298/TSCI120530158D, ISSN 0354-9836.		
3.	Dorić J., Klinar I.: The realisation and analysis of a new thermodynamic cycle for internal combustion engine, Thermal Science, 2011, Vol. 15, No 4, ISSN 0354-9836.		
4.	Dorić J.: Radikalno-rotacioni bezventilski motor SUS sa potpunijim širenjem radnog tela, Beograd, Zavod za intelektualnu svojinu Republike Srbije, Bilten, 2008, str. 1639-1640, ISBN 0354-771X, UDK: 631.372.		
5.	Dorić J., Klinar I., Dorić M.: Constant Volume Combustion Cycle for IC Engines, FME Transactions, 2011, Vol. 29, No 3, pp. 97-104, ISSN 1451-2092.		
6.	Nikolić N., Antonić Ž., Dorić J.: Uporedni prikaz dva analitička postupka konstruisanja polarnog dijagrama opterećenja glavnih ležišta kolenastog vratila, IMK-14 - Istraživanje i razvoj, 2011, Vol. 1, No 38, pp. 3-10, ISSN 0354-6829.		
7.	Nikolić N., Torović T., Antonić Ž., Dorić J.: An Algorithm for Obtaining Conditional Wear Diagram of IC Engine Crankshaft Main Journals, FME Transactions, 2011, Vol. 39, No 4, pp. 157-164, ISSN 1451-2092.		
8.	Dorić J., Klinar I.: Efficiency of a Valveless IC engine with more complete expansion, 1. International Conference on Innovative Technologies IN-TECH, Prague, 14-16 Septembar, 2010.		
9.	Dorić J., Klinar I., Nikolić N., Stojić B.: Use of natural gas in agricultural machinery, 39. 39th INTERNATIONAL SYMPOSIUM: ACTUAL TASKS ON AGRICULTURAL ENGINEERING, Opatija: Sveučilište u Zagrebu Agronomski Fakultet, Hrvatska, 22-25 Februar, 2011, pp. 149-160, ISBN 1333-2651.		
10.	Nikolić N., Torović T., Antonić Ž., Dorić J.: A Comparative Approach to the Load Determination of IC Engine Main Bearings, 7. Simpozijum o konstruisanju, oblikovanju i dizajnu – KOD, Balatonfured, 24-26 Maj, 2012, pp. 199-204, ISBN 978-86-7892-399-9.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	

	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p>				
	<p style="text-align: center;">Study Programme Accreditation</p> <p style="text-align: center;">UNDERGRADUATE ACADEMIC STUDIES Mechatronics</p>				
		3			
Total of SCI(SSCI) list papers :					
Current projects :	Domestic :	2	International :	0	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Dudić P. Slobodan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		21.08.1995	
Scientific or art field:		Mechatronics, Robotics and Automation and Intelligent Systems	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	1995	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.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
2.	H1401	Material Handling Technologies	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1504	Computer Integration of Production Systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
6.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	II1013	Material Handling Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	II1023	Packaging technology	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	II1042	Automation of Continual Processes	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	IM1114	Energy Flows in the Enterprise	(I20) Engineering Management, Undergraduate Academic Studies
12.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
13.	HDOK4 S	Selected chapters from automation of work processes	(I12) Industrial Engineering, Specialised Academic Studies
14.	I829	Automation of packaging processes	(I10) Industrial Engineering, Master Academic Studies
15.	I830	Energy efficiency of compressed air systems	(I10) Industrial Engineering, Master Academic Studies
16.	PLM02	Product Development and Management in PLM	(I10) Industrial Engineering, Master Academic Studies (I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
17.	PLM04	Sustainable Production and LCA	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
18.	LIM34	Material Handling	(LIM) Logistic Engineering and Management, Master Academic Studies
19.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
20.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
21.	BMIM4C	Fluid filtration and separation	(BM0) Biomedical Engineering, Master Academic Studies
22.	I911	Sustainable production	(I10) Industrial Engineering, Master Academic Studies
23.	IIDS27	Selected chapters of the energy efficiency of automated systems	(I12) Industrial Engineering, Specialised Academic Studies
24.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
25.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
26.	IMDR86	Selected chapters from energy efficiency of compressed air systems	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Šešlija D., Ignjatović I., Dudić S.: Increasing the Energy Efficiency in Compressed Air Systems, Rijeka, InTech, 2012, str. 151-174, ISBN 978-953-51-0800-9		
2.	Dudić S., Ignjatović I., Šešlija D., Blagojević V., Miodrag S.: Leakage quantification of compressed air using ultrasound and infrared thermography, MEASUREMENT, 2012, Vol. 45, No 7, pp. 1689-1694, ISSN 0263-2241		
3.	Ignjatović I., Šešlija D., Tarjan L., Dudić S.: Wireless sensor system for monitoring of compressed air filters, Journal of Scientific and Industrial Research (JSIR), 2012, Vol. 71, No 5, pp. 334-340, ISSN 0022-4456		
4.	Jocanović M., Šević D., Karanović V., Beker I., Dudić S.: Increased Efficiency of Hydraulic Systems Through Reliability Theory and Monitoring of System Operating Parameters, Strojniški vestnik - Journal of Mechanical Engineering, 2012, Vol. 58, No 4, pp. 281-288, ISSN 0039-2480		
5.	Dudić S., Ignjatović I., Šešlija D., Blagojević V., Stojiljković M.: Leakage quantification of compressed air on pipes using thermovision, Thermal Science, 2012, Vol. 16, No 2, pp. 621-631, ISSN 0354-9836		
6.	Šešlija D., Ignjatović I., Dudić S., Lagod B.: Potential energy savings in compressed air systems in Serbia, African Journal of Business Management, 2011, Vol. 5, No 14, pp. 5637-5645, ISSN 1993-8233		
7.	Blagojević V., Šešlija D., Stojiljković M., Dudić S.: Efficient control of servo pneumatic actuator system utilizing by-pass valve and digital sliding mode, Sadhana - Academy Proceedings in Engineering Science, 2012, ISSN 0256-2499		
8.	Šešlija D., Ignjatović I., Dudić S.: Compressed air system structure and energy efficiency, 15. Symposium on Thermal Science and Engineering of Serbia, Soko Banja: University of Nis, Faculty of Mechanical Engineering and Society of Thermal Engineers of Serbia, 18-21 Oktobar, 2011, pp. 649-658, ISBN 978-86-6055-018-9		
9.	Šešlija D., Dudić S., Ignjatović I.: Cost effectiveness t of pressure regulation on return stroke of pneumatic actuators, 11. International Scientific Conference "Flexible Technologies" - MMA, Novi Sad: Fakultet tehničkih nauka, 20-21 Septembar, 2012		
10.	Dudić S., Ignjatović I., Šešlija D.: Usage of non-destructive methods in compressed air system, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad: Faculty of Technical Sciences, 14-16 Septembar, 2011, pp. 101-104, ISBN 978-86-7892-341-8		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		6	
Current projects :		Domestic :	International :
		0	0

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



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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	DE517	Technology of magnetic and optical data storage	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Đurić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499		
2.	Đurić S., Nađ L., Damjanović M., Đurić N., Živanov Lj.: A novel application of planar-type meander sensors, Microelectronics International, 2011, Vol. 28, No 1, pp. 41-49, ISSN 1356-5362		
3.	Đurić N., Kavečan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference on Advances in Future Internet - AFIN, Rim, 19-24 Avgust, 2012, pp. 55-59, ISBN 978-1-61208-211-0 (Best paper award)		
4.	Đurić N., Kavečan N., Kljajić D.: The EM Field Register of the SEMONT Broadband Monitoring Network, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012, pp. 27-30, ISBN 978-1-4673-4748-8		
5.	Đurić N., Šenk V.: The MAP Implementation in Logic Circuits for Soft-decision Decoding of MTR Codes, 6. European Modeling Symposium - EMS, Malta, 14-16 Novembar, 2012, pp. 201-206, ISBN 978-0-7695-4926-2/12		
6.	Đurić N., Prša M., Kasaš-Lažetić K.: Information Network for Continuous Electromagnetic Fields Monitoring, International Journal of Emerging Sciences - IJES, 2011, Vol. 1, No 4, pp. 516-525, ISSN 2222-4254		
7.	Vukobratović B., Đurić N.: Monitoring of EMF with SEMONT system, 6. International PhD Seminar on Computational electromagnetics and bioeffects of electromagnetic fields – CEMBEF, Novi Sad, 28-30 Jun, 2012, pp. 63-66, ISBN 978-86-7892-410-1		
8.	Bajović V., Đurić N., Herceg D.: Serbian Laws and Regulations as Foundation for Electromagnetic Field Monitoring Information Network, 10. International Conference on Applied Electromagnetics, Niš, 25-29 Septembar, 2011, ISBN ISBN: 978-86-6125-04		
9.	Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1		
10.	Đurić N., Šenk V., Vasić B.: MAP Decoding of MTR Codes in Multiple-Head Magnetic Recording Systems, 10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 164-167, ISBN 978-1-4577-2018-5		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	3
		International :	2

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

Science, arts and professional qualifications



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

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
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 Ingelience	(Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Lendak I., Erdeljan A., Popović D.: Algorithm for cataloguing topologies in the Common Information Model (CIM), Computers Math. Appl. 61, No. 3, 715-721 (2011). ISSN 0898-1221				
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883				
3.	Čapko D., Erdeljan A., Švenda G., Popović M.: Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, No 4(120), pp. 83-88, ISSN 1392-1215				
4.	Ilić S., Vukmirović S., Erdeljan A., Kulić F.: Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, 2012, Vol. 16, No S, pp. 215-224, ISSN 0354-9836				
5.	Vukmirović S., Erdeljan A., Čapko D., Lendak I.: Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering, 2011, Vol. 107, No 1, pp. 59-64, ISSN 1392-1215				
6.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Initial Partitioning of Large Datasets in Utility Management Systems, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445				
7.	Čapko D., Erdeljan A., Vukmirović S., Lendak I.: A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control, 2011, Vol. 40, No 4, pp. 316-322, ISSN 1392-124X				
8.	Vukmirović S., Nedić N., Erdeljan A., Lendak I., Čapko D.: A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control, 2010, Vol. 39, No 4, pp. 310-316, ISSN 1392-124X				
9.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456				
10.	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			1		
Total of SCI(SSCI) list papers :			9		
Current projects :			Domestic :	3	International : 0



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	



Science, arts and professional qualifications



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

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

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



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		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
31.	ASI431	English Language 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies		
32.	BMI80	English 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
33.	BMI81	English 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
34.	EJIM	English for Specific Purposes	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies		
35.	EJ1Z	English Language - Elementary	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
36.	EJ2Z	English Language – Intermediate	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (GI0) Geodesy and Geomatics, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (AH0) Architecture, Master Academic Studies		
37.	eja	English Language – a Specialized Course	(AH0) Architecture, Master Academic Studies		
38.	EJE7	English Language - Advanced	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
39.	F507	English Language for GRID 3	(F00) Graphic Engineering and Design, Master Academic Studies		
40.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Gak Dragana, Lorejn Hansberi i (afro) američka porodica, Zadužbina Andrejević, Beograd, 2012				
2.	Gak Dragana, Bulatović Vesna, Bogdanović Vesna, Poređenje nastave engleskog jezika na privatnom i državnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str. 705-709, Beograd, 2009.				
3.	Bulatović Vesna, Gak Dragana, Bogdanović Vesna, Nastava stranih jezika na privatnom fakultetu, Zbornik radova sa međunarodne konferencije Jezik struke: Teorija i praksa, Univerzitet u Beogradu, str.329-333, Beograd, 2009.				
4.	Bogdanović Vesna, Gak Dragana, Univerzalana simbolika na primeru afro-američke zajednice u drami Lorejn Hansberi, Sveske, broj 98, decembar , Pančevo, 2010				
5.	Gak Dragana, Borković Bojana, Needs Analysis: A Basis of a Successful Business English Course, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 880-885, Beograd, 2011.				
6.	Bulatović Vesna, Gak Dragana, Speaking Skills: Advantages and Problems Involved When Teaching Business English, Zbornik radova sa međunarodne konferencije Jezik struke: Izazovi i perspektive, Univerzitet u Beogradu, str. 235-240, Beograd, 2011.				
7.	Gak Dragana, Textbook - An Important Element in the Teaching Process, Metodčki vidici, Filozofski fakultet Novi Sad, str.78-82, Novi Sad, 2011.				



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

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

Science, arts and professional qualifications



Name and last name:		Georgijević S. Milosav	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.02.1977	
Scientific or art field:		Machine Constructions, Transport Systems and Logistics	
Academic carier	Year	Institution	Field
Academic title election:	2000	University of Novi Sad - Novi Sad	Machine Constructions, Transport Systems and Logistics
PhD thesis	1989	Faculty of Philosophy - Novi Sad	Machine Constructions, Transport Systems and Logistics
Magister thesis	1982	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
Bachelor's thesis	1973	University of Novi Sad - Novi Sad	Machine Constructions, Transport Systems and Logistics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H2463	Mechanization Management	(H00) Mechatronics, Undergraduate Academic Studies
2.	M2405	Warehouses and Equipment	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
3.	M308	Engineering Logistics and Simulation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
4.	S0218	Reload Logistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	S1218	Reload Logistics	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	ZR407A	Occupational safety in internal transport, reloading and warehouse	(Z01) Safety at Work, Undergraduate Academic Studies
7.	M2528	Eurologistics	(M22) Mechanization and Construction Engineering, Master Academic Studies
8.	M2535	Logistic Processes Management	(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies
9.	LIM04	Internal Transport and Storage	(LIM) Logistic Engineering and Management, Master Academic Studies
10.	LIM06	Simulation and Optimization in Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
11.	LIM15	Technical Intralogistics	(LIM) Logistic Engineering and Management, Master Academic Studies
12.	LIM23	Logistic Centers	(LIM) Logistic Engineering and Management, Master Academic Studies
13.	LIM27	Logistics of Warehousing and Commissioning	(LIM) Logistic Engineering and Management, Master Academic Studies
14.	LIM28	Intralogistic System Planning	(LIM) Logistic Engineering and Management, Master Academic Studies
15.	LIM29	Simulation of Large Logistic Systems	(LIM) Logistic Engineering and Management, Master Academic Studies
16.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
17.	DM213	Contemporary Methods of Designing and Machine Constructing	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	DM331	Selected Chapters in Transport and Construction Machines	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	DOM20	Engineering Analysis Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
20.	DOM27	Logistics and Simulation	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Georgijevic M.: Anwendung von Rechenmodellen bei der dynamischen Analyse von Hebezeugen, dhf - deutsche hebe und fördertechnik, 1990, Nr.10, s. 46-53		
2.	Georgijevic M.: Einwirkung der konstruktiven Lösung und Antriebsregulierung auf Dynamik von Hafenhebezeugen, dhf-deutsche hebe und fördertechnik, 1991. Nr. 6, s. 64-69		



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
3.	Georgijevic M.: Einfluss der Wippantrieb-Regulierung auf Lastpendel und Dynamik von Wippdrehe Krannen, dhf - deutsche hebe und fördertechnik, 1992, Nr. 3, s. 74-81		
4.	Georgijevic M, Milisavljevic B.: Pendeln des Containers bei der Katzenbewegung der Portalkrane, dhf - deutsche hebe und fördertechnik, 1994, Nr.9, s. 41-47		
5.	Georgijevic M.: Zur Regelung und Steuerung bei Kranen, dhf- deutsche hebe und fördertechnik, Nr. 1/2-97, s. 58-64,		
6.	Georgijević M.: Using Simulation in Material Flow Processes and Machine Design, Simulation News Europe, July 2002, p.18,19		
7.	M. Georgijevic, R. Kostic, Erhöhung der Lebensdauer von Fördermaschinen durch mechatronische Systeme, 30. Tagung DVM – Arbeitskreis Betriebsfestigkeit Mechatronik und Betriebsfestigkeit - Stuttgart, 8. und 9. Oktober, 2003, s.139-163 (Predavanje po pozivu)		
8.	Georgijevic M, Radanovic R.: Simulation komplexer Systeme und Optimierung 9. Symposium Simulation als betriebliche Entscheidungshilfe: Neuere Werkzeuge und Anwendungen aus der Praxis (Proc. zum 9. Symposium), Goettingen s. 307-320, 2004		
9.	Georgijevic M.: Fuzzy Control zur Regelung einer Krananlage, Erfolgsbilanz für Fuzzy Logik, Augsburg, 1992		
10.	Pap E, Bojanic V, Georgijevic M, Bojanic,: Application of Pseudo-Analysis in the Synchronization of Container Terminal Equipment Operation , ACTA POLYTECHNICA HUNGARICA, (2011), vol. 8 br. 6, str. 5-21.		
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

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

Science, arts and professional qualifications



Name and last name:		Gerić D. Katarina	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		02.12.1976	
Scientific or art field:		Material Science and Engineering Materials	
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Material Science and Engineering Materials
PhD thesis	1997	Faculty of Technology and Metallurgy - Beograd	Material Science and Engineering Materials
Magister thesis	1985	Faculty of Technology and Metallurgy - Beograd	Material Science and Engineering Materials
Bachelor's thesis	1974	Faculty of Technology and Metallurgy - Beograd	Metallurgical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H106	Materials in Mechanical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
2.	M105	Mechanical Materials	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	P2412	Contemporary Materials	(P00) Production Engineering, Undergraduate Academic Studies
4.	P3401	Characteristics and Application of Plastic Materials	(P00) Production Engineering, Undergraduate Academic Studies
5.	ZC003	Electromechanical materials	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	ZRI42A	Safety at work in metallurgy and thermochemical treatment of metal	(Z01) Safety at Work, Undergraduate Academic Studies
7.	P2502	Properties and Selection of Materials	(PM0) Production Engineering, Master Academic Studies
8.	PTS01	Technology of sintering	(PM0) Production Engineering, Master Academic Studies
9.	DM214	Selected Chapters in Working Strength	(M00) Mechanical Engineering, Doctoral Academic Studies
10.	SAP002	Engineering Materials	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	SAP004	Fracture Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vratnica, M., Pluvinage, G., Jodin, P., Cvijović, Z., Rakin, M., Burzić, Z., Gerić, K.: Notch fracture toughness of high-strength Al alloys, Materials and Design, 2013, Vol. 44, pp. 303-310, ISSN: 0261-3069.		
2.	Cvijovic Z,Vratnica M, Geric K: Fractographic analysis of fatigue damage in 7000 aluminium alloys, Journal of Microscopy, Vol 232, 2008, pp. 589-594		
3.	Stasevic, M., Maksimovic, S., Geric, K., Burzic, Z., Vasovic, I.: Fatigue crack propagation models: Numerical and experimental comparisons, Technics Technologies Education Management - TTEM, 2012, Vol. 7, No. 2, pp. 801-810, ISSN: 1840-1503.		
4.	Stašević, M., Maksimović, S., Gerić, K., Burzić, Z., Maksimović, M.: Fatigue crack growth prediction from low cycle fatigue properties, Strojarstvo, 2011, Vol. 53, No. 3, pp. 171-178, ISSN: 0562-1887.		
5.	Vratnica M, Cvijovic Z, Geric K, The role of Intermetallic Phases in Fatigue Crack Propagation Behavior of Al-Zn-Mg-Cu alloy, Material Science Forum vol. 555, 2007, pp 553-558		
6.	Gerić K., Sedmak S., Glavardanov I. : Fracture mechanics parameters of heat affected zone of high strength microalloyed steel, Metallurgy and new materials researches. Vol.II, No.1-2, 1994, 114-125		
7.	Sedmak S., Gerić K.: Evaluation of crack significance in welded joint by fracture mechanic approach, Kovine, zlitine tehnologije1-2, 32, 1998, 21-27		
8.	Gerić K, Glavardanov I, Sedmak S.: Relability and Structural integrity of advanced materials, deo J integral and Final Strech zone for crack in HSLAof Undermatched and Overmatched weldments, EMAS Publication LTD, pp. 996-1005		
9.	Gerić K.: Prsline u zavarenom spoju, monografija, Fakultet tehničkih nauka, Novi Sad, 2005.		



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
10.	Gerić K.: Fractographic Analysis, part of monograph "From fracture mechanics to structural integrity assessment", 8. International fracture mechanics summer-school, Belgrade 2004, pp. 147-158		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		2	
Total of SCI(SSCI) list papers :		5	
Current projects :	Domestic :	2	International : 0

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

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 carier	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 references (minimum 5, not more than 10)			

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (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 string 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. Maretić, 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.	Glavardanov V, Maretić 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

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

Science, arts and professional qualifications



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



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

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

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



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
18.	DTM03	Biomechanical models and analysis of impact	(M40) Technical Mechanics, Doctoral Academic Studies
19.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, Vol. 22, No 4, pp. 1-10, ISSN 0218-1274		
2.	Grahovac N., Žigić M.: Modelling of the hamstring muscle group by use of fractional derivatives, Computers and Mathematics with Applications, 2010, Vol. 59, No 5, pp. 1695-1700, ISSN 0898-1221.		
3.	Glavardanov V., Maretić R., Grahovac N.: Buckling of a twisted and compressed rod supported by Cardan joints , European Journal of Mechanics - A: Solids, 2009, Vol. 28, pp. 131-140, ISSN 0997-7538		
4.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180		
5.	Grahovac N., Žigić M.: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008		
6.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)		
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010		
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)		
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165-172, ISBN 978-86-909973-0-5, UDK: 531/534(082)		
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov's Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		5	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	International :
		1	0

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

Science, arts and professional qualifications



Name and last name:		Heraković 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 carier	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 - Renewable 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 references (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 [Durchflussskennlinien für die ventilsimulation - Am Beispiel axialgekerbter hydraulischer Längsschieberventile], Olhdraulik 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]		



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
4.	MERWE, Jacob D. van der, MINARIK, Martin, BEROVIĆ, Marin, HERAKOVIĆ, 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.	HERAKOVIĆ, Niko, ŠIMIC, Marko, TRDIČ, Francej, 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.	HERAKOVIĆ, Niko. Flow-force analysis in a hydraulic sliding-spool valve. Strojarsvo, 2007, letn. 49, št. 3, str. 117-126. [COBISS.SI-ID 10449691]		
7.	HERAKOVIĆ, 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.	HERAKOVIĆ, 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.	HERAKOVIĆ, 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

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



Name and last name:		Ivandić I. Željko	
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 carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	2002	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Magister thesis	1996	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Bachelor's thesis	1990	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.	H1409	Intelligent Systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
6.	H1501A	Systems for Surveillance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
7.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
8.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	H301	System Modeling and Symulation	(H00) Mechatronics, Master Academic Studies
11.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
12.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
13.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies
14.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
15.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
16.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
17.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
18.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
19.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
20.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
21.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
22.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
23.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
24.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
25.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
26.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
27.	HDOL13	Motion controla and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
28.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Brillová, K., Ohlídal, M., Valíček, J., Hloch, S., Kozak, D., Ivandić, Z. Evaluation of abrasive waterjet produced titan surfaces topography by spectral analysis techniques (2012) Metalurgija, 51 (1), pp. 39-42.		
2.	Kozak, D., Ivandić, Z., Kontajić, P. Determination of the critical pressure for a hot-water pipe with a corrosion defect [Določitev kritičnega pritiska v vročevodni cevi s korozijsko poškodbo] (2010) Materiali in Tehnologije, 44 (6), pp. 385-390.		
3.	Balicević, P., Ivandić, Z., Kraljević, D. Temperature transitional phenomena in spherical reservoir wall (2010) Tehnicki Vjesnik, 17 (1), pp. 31-34.		
4.	Ivandić, Z., Ergić, T., Kljajin, M. Welding robots kinematic structures evaluation of based on conceptual models using the potential method (2009) Tehnicki Vjesnik, 16 (4), pp. 35-45.		
5.	Ergić, T., Ivandić, Ž. Ultra-light telescopic crane/platform mechanisms feature analysis (2009) Tehnicki Vjesnik, 16 (4), pp. 87-91.		
6.	Ivandić, Ž., Ergić, T., Kokanović, M. Conceptual model and evaluation of design characteristics in product development (2009) Strojstvo, 51 (4), pp. 281-291.		
7.	Hlaváček, P., Valíček, J., Hloch, S., Greger, M., Foldyna, J., Ivandić, Z., Sitek, L., Kušnerová, M., Zeleňák, M. Measurement of fine grain copper surface texture created by abrasive water jet cutting (2009) Strojstvo, 51 (4), pp. 273-279.		
8.	Radvanská, A., Ergić, T., Ivandić, Ž., Hloch, S., Valicek, J., Mullerova, J. Technical possibilities of noise reduction in material cutting by abrasive water-jet (2009) Strojstvo, 51 (4), pp. 347-354.		
9.	Kušnerová, M., Valíček, J., Hloch, S., Ergić, T., Ivandić, Z. Derivation and measurement of the velocity parameters of hydrodynamics oscillating system (2008) Strojstvo, 50 (6), pp. 375-379.		
10.	Dunder, M., Ivandić, Ž., Samardžić, I. Selection of arc welding parameters of micro alloyed HSLA steel (2008) Metalurgija, 47 (4), pp. 325-330.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		14	
Total of SCI(SSCI) list papers :		13	
Current projects :		Domestic :	1 International : 1

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

Science, arts and professional qualifications



Name and last name:		Ivetić V. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		22.10.1990	
Scientific or art field:		Applied Computer Science and Informatics	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1994	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1990	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E243	Human Computer Interaction	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	H207	Programming and Programming Languages	(F10) Engineering Animation, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	RI4A	Computer Graphics	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E0243	Human-Computer Interaction	(ES0) Power Software Engineering, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
5.	E2505	Multimedia Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (F20) Engineering Animation, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
6.	E2516	Virtual Reality Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
7.	E2528	Computer game development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
8.	E2534	Data Compression	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
Study Programme Accreditation					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
9.	ESI035	Computer graphic algorithms for smart grid systems	(ESO) Power Software Engineering, Master Academic Studies		
10.	ESI036	Visualization techniques in power systems	(ESO) Power Software Engineering, Master Academic Studies		
11.	DRNI09	Selected Topics in Human Centered Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies		
12.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
14.	DRNI15	Selected Topics in Advanced Computer Graphics	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies		
15.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Dinu Dragan, Dragan Ivetic, "Request Redirection Paradigm in Medical Image Archive Implementation", Computer methods and programs in biomedicine, Elsevier, Vol. 107, No. 2, p.111-121, ISSN 0169-2607, Aug 2012				
2.	Dragan Ivetic, Dinu Dragan, "Medical Image on the go!", Journal of Medical Systems, Springer, Vol. 35, No. 4, pp. 499-516, ISSN 0148-5598, August 2011.				
3.	Dragan Ivetic, Srdjan Mihic, Branko Markoski, "Augmented AVI video file for road surveying", Computers and Electrical Engineering, Elsevier, Vol. 36, No. 1, pp. 169-179, ISSN 0045-7906, January 2010.				
4.	Dinu Dragan, Dragan Ivetic, "Architectures of DICOM based PACS for JPEG2000 Medical Image Streaming", Computer Science and Information Systems Journal (ComSIS), vol. 6(1), ISSN: 1820-0214, pp. 185-203, ComSIS Consortium, Serbia, June 2009.				
5.	Dragan Ivetic, Dusan Malbaski, "A dichotomous software life-cycle model", Journal of Applied Systems Studies, Nikitas. A. Assimakopoulos, Ed., Cambridge International Science Publishing, Cambridge, England, vol. 2, No. 2, 2001				
6.	Dinu Dragan, Dragan Ivetic, "A Comprehensive Quality Evaluation System for PACS", Ubiquitous Computing and Communication Journal, Special Issue on ICIT 2009 Conference - Bioinformatics and Image, Vol. 4(3), ISSN: 1992-8424, pp. 642-650, UBICC Publisher, July 2009.				
7.	Veljko Petrovic, Dragan Ivetic, "Education and out of the box thinking – linearization of Graham's scan algorithm complexity as fruit of education policy", Ubiquitous Computing and Communications Journal, Special Issue on ICIT 2011 conference, ISSN: 1992-8424, pp. 43-51, UBICC Publisher, 2011.				
8.	Dusan Malbaski, Dragan Ivetic, "Some notes on the formal definition of streams", Byron Papathanassiou, Ed., Yugoslav Journal of Operations Research, vol. 6, no. 2, 1996., 277-284.				
9.	Ivetic Dragan, Dinu Dragan, "JPEG2000 Aims To Make Medical Image Ubiquitous", Egyptian Computer Science Journal, Vol. 31, No. 5, pp. 1-13, ISSN 1110-2586, Sept. 2009.				
10.	Dragan D., Ivetic D.: Chapter 28: Tools for Ubiquitous PACS System, in "Proceedings of the International Conference on Human-centric Computing 2011 and Embedded Multimedia Computing 2011", Lecture Notes in Electrical Engineering, J.J. Park et al. (eds.), Berlin, Springer, 2011, str. 297-308, ISBN 978-94-007-2104-3				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			55		
Total of SCI(SSCI) list papers :			4		
Current projects :			Domestic :	2	International : 0

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

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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Jeličić Z., Kulić F., Čongradac V., Kanović Ž., Živković S.,Praktikum Savremena merenja i instrumentacija iz programa Lifelong Learning, INDAS, 2003.		
2.	Jeličić Zoran; Petrovački Nebojša; Optimality Conditions and a Solution Scheme For Fractional Optimal Control Problems, Structural and Multidisciplinary Optimization ISSN: 1615-147X ,Vol. 38, No. 6, Str. 571-581, Springer;		
3.	Rapaić Milan; Pisano Alessandro; Jeličić Zoran; Usai Elio; Sliding mode control approaches to the robust regulation of linear multivariable fractional order dynamics - International Journal of Robust and Nonlinear Control Volume 20, Issue 18, pages 2045–2056, December 2010		
4.	Rapaić Milan; Jeličić Zoran; Optimal control of a class of fractional heat diffusion systems , Nonlinear Dynamics Volume 62, Numbers 1-2, 39-51, DOI: 10.1007/s11071-010-9697-3 , Springer;		
5.	Z. D. Jeličić, T. M. Atanacković, Optimal shape of a vertical rotating column, International Journal of Non-Linear Mechanics, 42, 172 – 179, (2007) .		
6.	Zeljko Kanovic, Milan R Rapaic, Zoran D Jelcic, Generalized particle swarm optimization algorithm-Theoretical and empirical analysis with application in fault detection, Applied mathematics and computation, Volume 217, Issue 24, 15 August 2011, Pages 10175–10186.		
7.	Jeličić, Z. D. Atanacković, T. M.,On an optimization problem for elastic rods, STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, (2006) vol.32 br.1 str. 59-64		
8.	Milena Petković, Milan R Rapaić, Zoran D Jeličić, Alessandro Pisano, On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39, Issue 11, 1 September 2012, Pages 10226–10235.		
9.	T. M. Atanacković, Z. D. Jeličić, Optimal shape and deformations of a lifting line with winglets. Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences techniques 29, 57-79 (2003).		
10.	T. M. Atanackovic, Y. Huo, Z. Jelcic, I. Mueller, Phase diagrams modified by interfacial penalties, Theoret. Appl. Mech., Vol.34, No.4, pp. 301-338, Belgrade 2007.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		105	
Total of SCI(SSCI) list papers :		7	
Current projects :		Domestic :	2
		International :	1

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



Name and last name:		Jocanović T. Mitar	
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:		Quality, Effectiveness and Logistics	
Academic carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1999	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.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
2.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
3.	I401	Tribology	(M30) Energy and Process Engineering, Undergraduate Academic Studies
4.	URZP17	Devices and systems in fire protection	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	URZP40	Stationary Systems for Fire Extinguishing	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	URZP45	Mobile Equipment and Fire Extinguishing Equipment	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1050	TRIBOLOGY AND LUBRICATION	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	IM1008	Processes and Work Equipment	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
11.	IMDS58	Selected Chapters in Hydraulic Systems	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDS95	Trends in Customer Relationship Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	ZP507	Design and Maintenance of Stationary Fire Extinguishing Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
14.	ZP512	Protection and Rescue Plans	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	IIDS12	Quality and organizational performance	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
16.	IIDS30	Trends in the environmental management systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
17.	IIDS7	Selected topics in quality engineering and logistics	(I12) Industrial Engineering, Specialised Academic Studies
18.	IMDS74	Selected Topics in Quality Management and Logistics	(I22) Engineering Management, Specialised Academic Studies
19.	IMDR58	Selected Chapters in Hydraulic Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
20.	IMDR94	Trends in the environmental management systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
21.	IMDR95	Trends in Customer Relationship Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
22.	IMDR74	Selected Topics in Quality Management and Logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23.	IMDR79	Selected topics in quality engineering and logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR83	Quality abd organisational performance	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	V. Savić, D. Knežević, D. Lovrec, M. Jocanović, Velibor Karanović: Determination of Pressure Losses in Hydraulic Pipeline Systems by Considering Temperature and Pressuer, Strojnik Vestnik-Journal of Mechanical Engineering, 2009, Vol. 55, No. 4, str.237-243, UDK: 621.643, ISSN 0039-2480		
2.	M. Jocanović, D. Šević, V. Karanović, I. Beker, S. Dudić: Increased efficiency of hydraulic systems through reliability theory and monitoring of system operating parameters, Strojnik Vestnik-Journal of Mechanical Engineering, 2012, Vol. 58, No. 4, str.281-288, UDK: 621.643, ISSN 0039-2480		
3.	Z.Milovanović, D. Knežević, A. Ivanišević, M. Jocanović, S. Mitrović: ECONOMICAL EVALUATION OF THE PROJECT ON REPLACEMENT OF HEATING PLANT WITH CO-GENERATION HEAT AND POWER PLANT BY THE END OF 2030 , Metalurgia International, 2013, No4,		
4.	M. Jocanović, V. Savić, V. Karanović,: MODEL FOR TRANSLATION OF CLASSES OF PURITY OF OILS BETWEEN ISO 4406/99, NAS 1638-01 AND SAE AS 4059: D STANDARDS, 14. Međunarodna naučna konferencija INDUSTRIJSKI SISTEMI - IS"08, Novi Sad: Fakultet tehničkih nauka - Novi Sad, 2-3 Oktobar, 2008, str. 391- 396, UDK: 685.5 (082), ISBN 978-86-7892-135-3.		
5.	M. Jocanović: PRILAZ ISTRAŽIVANJU I DEFINISANJU MODELA ZA PRORAČUN PROTICANJA ČVRSTIH ČESTICA SA ULJNOM MASOM KROZ ZAZORE U FUNKCIJI KONSTRUKCIONO RADNIH PARAMETARA HIDRAULIČNIH KOMPONENATA, Doktorska disertacija		
6.	M.Jocanović: RAZVOJ INTEGRALNOG MODELA ZA IZBOR I DIJAGNOSTIKU MINERALNIH HIDRAULIČKIH ULJA; Magistrski rad iz oblasti problematike vezane za izbor i dijagnostikovanje mineralnih hidrauličkih ulja u hidrauličkim sistemima		
7.	M.Jocanović, D.Babić, V.Karanović, R.Geaverts: Industrial Aplication of Automatic Lubrication Systems, Fluid Power 2011, str. 409-418, Mašinski fakultet univerziteta u Mariboru, Slovenija: 2011, UDK 621.51/54 (082), ISBN 978-961-248-290-9		
8.	V. Savić, V. Karanović, M. Jocanović, D. Knežević: Pressure drop in hydraulic pipeline system - Identification of real basis for calculation of mineral hydraulic oil flow, Fluid Power 2009, str. 133-148, Mašinski fakultet univerziteta u Mariboru, Slovenija: 2009, UDK 621.51/54 (063)(082), ISBN 978-961-248-176-6		
9.	V. Savić, M. Jocanović, D.Knežević, M.Kraišnik; KINEMATICS OF DISTRIBUTION OF PRESSURE WITHIN PIPELINE OF TWO'LINE SYSTEMS FOR LUBRICATION, VII TH INTERNATIONAL SYMPOSIUM INTERTRIBO 2002, str. 141 – 143, Stara Lesna, Slovak Republic (2002),		
10.	V.Savić, M. Jocanović, V. Karanović: BASIC CONSTRUCTION MODEL OF THE SYSTEM FOR PROTECTION OF FRUIT TREES FROM FROST BY ICE PROTECTIVE CRUST, 14. Međunarodna naučna konferencija INDUSTRIJSKI SISTEMI - IS"08, Novi Sad: Fakultet tehničkih nauka - Novi Sad, 2-3 Oktobar, 2008, str. 129- 134, UDK: 685.5 (082), ISBN 978-86-7892-135-3.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		2	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	International :
		2	0

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

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 carier	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

		UNIVERSITY OF NOVI SAD		
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
		<h2 style="text-align: center;">Study Programme Accreditation</h2>		
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics
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 control 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 references (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 Engineering 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., Čosić 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., Čosić 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 Engineers (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 Comprehensive 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



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



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

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

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



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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

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 carier	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 Surveillance 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 references (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.		



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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics	
Representative references (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., Zeleňák, M., Košťál, 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) Materialprüfung/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

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

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



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		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
14.	E2515	Intelligent Control Systems	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
15.	M2550	Automatic Control Systems in Motor Vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies		
16.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies		
17.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies		
18.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies		
19.	DE410	Selected Topics in the Field of Automatic Control	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
20.	SID04	Current State in the Field	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies		
21.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies		
22.	SID04	Present State in the Field	(A00) Architecture, Doctoral Academic Studies (AS0) Scenic Design, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Dragan Kukolj, Vesna Bengin, Filip Kulić: Osnovi klasične teorije automatskog upravljanja kroz rešene probleme, Sombor, Somel, 1995. 241str., UDK: 681.5(075.8),				
2.	Dragan Kukolj, Filip Kulić: Projektovanje sistema automatskog upravljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka, 1995. 232str., UDK: 681.5(075.8),				
3.	D.Kukolj, F.Kulić, E.Levi: Design Of The Speed Controller For Sensorless Electric Drives Based On AI Techniques: A Comparative Study, Artificial Intelligence in Engineering, 2000, Vol. 14, str. 165- 174				
4.	D.Kukolj, S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, Wide Range Fuzzy Logic Controller, Fuzzy Sets and Systems, 2001, Vol. 120, No. 1, str. 17- 34				
5.	D.Kukolj, F.Kulić, D.Popović, Z.Gorečan: Determining Topological Changes and Critical Load Levels of a Power System by Means of Artificial Neural Network, Electric Machines and Power Systems, 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.				
6.	D.Kukolj, D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Analysis of a Power System Using Artificial Neural Networks, European Transactions on Electrical Power (ETEP), 1998, Vol. 8, No. 3, str. 207- 212, ISSN 1430-144X.				
7.	D.Popović, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Stability Margins Using Artificial Neural Networks with a Reduced Input Set, IEE Proc. -Gener. Transm. Distrib, 1998, Vol. 145, No. 4, str. 355- 362, ISSN 1350-2360.				



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

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

Science, arts and professional qualifications



Name and last name:		Kuzmanović B. Siniša	
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:		Machine Elements, Construction Principles, Machine and Mechanism	
Academic career	Year	Institution	Field
Academic title election:	1996	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
PhD thesis	1980	Faculty of Mechanical Engineering - Beograd	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
Magister thesis	1976	Faculty of Mechanical Engineering - Beograd	Machine Elements, Construction Principles, Machine and Mechanism Theory, Power and Motion Transfer and Eng. Communication
Bachelor's thesis	1973	Faculty of Mechanical Engineering - Beograd	Thermal Energetics and Thermotechnics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	F408	Industrial Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	H205	Mecahnical Elements 1	(H00) Mechatronics, Undergraduate Academic Studies
3.	H208	Mechanical Elements 2	(H00) Mechatronics, Undergraduate Academic Studies
4.	M202	Mechanical Elements	(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.	M2419	Product Development	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
6.	URZP14	Fundamentals of Mechanical Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	F51011	Design of industrial products	(F00) Graphic Engineering and Design, Master Academic Studies
8.	M2654	Specific Machine Elements of Agricultural Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	M2656	Industrial design of agricultural machines	(M22) Mechanization and Construction Engineering, Master Academic Studies
10.	DM213	Contemporary Methods of Designing and Machine Constructing	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	DM215	Seelcted Chapters in Machine and Mechanisms Theory	(M00) Mechanical Engineering, Doctoral Academic Studies
12.	DOM23	Product Development	(M00) Mechanical Engineering, Doctoral Academic Studies
13.	FDS211	Selected Chapters in Design	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	FDS214	Selected Chapters in Industrial Product Modelling	(F00) Graphic Engineering and Design, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Miltenović, V. A., Kuzmanović, B. S., Miltenović, Đ. V., Tica, M. M., Rackov, J. M.: Thermal stability of crossed helical gears with wheels made from sintered steel, Thermal Science, 2012, Vol. 16, Suppl. 2, pp. S607-S619, doi:10.2298/TSCI120503190M.		
2.	Kuzmanović, S.: Konstruisanje, oblikovanje i dizajn - 1. deo, Fakultet tehničkih nauka, Novi Sad, 2006, str.357, ISBN 86-85211-82-4		
3.	Kuzmanović, S.: Konstruisanje, oblikovanje i dizajn - 2. deo, Fakultet tehničkih nauka, Novi Sad, 2005, str.181, ISBN 86-85211-57-3		
4.	Kuymanović, S.: Menadžment proizvodima, Univerzitet u Novom Sadu, Novi Sad, 2007, str.301, ISBN 978-86-499-0149-0		
5.	Kuzmanović, S.: Mašinski elementi - oblikovanje, proračun i primena, Fakultet tehničkih nauka, Novi Sad, 2012, str.394, ISBN 978-86-7892-282-4		


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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
6.	Kuzmanović, S.: Industrijski dizajn, Fakultet tehničkih nauka, Novi Sad, 2012, str.329, ISBN 978-86-7892-404-0		
7.	Kuzmanović, S., Trbojević, R., Rackov, M.: Zbirka zadataka iz mašinskih elemenata, Fakultet tehničkih nauka, Novi Sad, 2009, str.198, ISBN 978-86-7892-154-4		
8.	Kuzmanović, S.: Univerzalni zupčasti reduktori sa cilindričnim zupčanicima, Fakultet tehničkih nauka, Novi Sad, 2009, str.231, ISBN 978-86-7892-202-2		
9.	Kuzmanović, S., Rackov, M.: Bezazorni prenosnici u vojnom mašinstvu, Vojnotehnički institut, Beograd, 2012, str.101, ISBN 978-86-81123-51-5		
10.	Vereš, M., Harman, B., Kuzmanović, S., Rackov, M.: Determination of the Correct Mating Cylindrical Teeth Flanks Profiles When the Path of Contact is Given, Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering, Bratislava, 2009, str. 145-151, ISBN 978-80-227-3326-7		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	International :
		1	2


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

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

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

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



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



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
45.	NIT03	Business English	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
Representative references (minimum 5, not more than 10)			
1.	"Formal and Aesthetic Aspects of Nadine Gordimer's Short Story", Romanian Journal of English Studies, University of the West Timisoara, br. 7, 2010., str.191-198.		
2.	"Summarization Skills of Engineering Students' Reading in a Second Language", Jezik struke, izazovi i perspektive, Univerzitet u Beogradu, 2011., str. 291-299.		
3.	"On Race, Ethnicity and Gender in Nadine Gordimer's 'Jump and Other Stories", Selected Papers in Literature and Culture from the 9th HUSSE Conference, Pecs, 2010., str. 285-290.		
4.	"Living in the Interregnum: Nadine Gordimer's 'Conservationist', 'Burger's Daughter' and 'July's People'", B.A.S. Conference on British and American Studies, University of the West Timisoara, br.XXI, maj 2011., str. 28.		
5.	"Preispitivanje istorijskog konteksta u Barnsovom romanu Floberov papagaj", Sveske, br.100, Pančevo, jun 2011., str. 69-77.		
6.	"Kreiranje udžbenika za stručni engleski jezik za studente različitog predznanja", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str.445-454.		
7.	"Istorijat nastave stručnog engleskog jezika na FTN-u u Novom Sadu", Jezik struke, teorija i praksa, Univerzitet u Beogradu, 2009., str. 170-176.		
8.	Zajednica i pojedinac u delima Toni Morison u romanima Najplavlje oko, Sula, Voljena i Katreno luče, 2009.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		0	
Current projects :		Domestic :	0 International : 0

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

Science, arts and professional qualifications



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



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

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

Science, arts and professional qualifications



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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

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

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

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

Science, arts and professional qualifications



Name and last name:	Malešev T. Petar		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 12.11.1975		
Scientific or art field:	Machine Constructions, Transport Systems and Logistics		
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
PhD thesis	1993	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
Magister thesis	1987	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics



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

	ID	Course name	Study programme name, study type
1.	H2464	Building Machines Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies
2.	M2406	Construction and Utility Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
3.	M315	Hydraulic Transmissions in Mechanization	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
4.	ZRI413	Occupational Safety and Protection in Working with Civil Engineering and Utility Mechanization	(Z01) Safety at Work, Undergraduate Academic Studies
5.	M2530	Food Processing Machines 1	(M22) Mechanization and Construction Engineering, Master Academic Studies
6.	M2532	Packaging Machines	(M22) Mechanization and Construction Engineering, Master Academic Studies
7.	M2534	Food Processing Machines 2	(M22) Mechanization and Construction Engineering, Master Academic Studies
8.	M2542	Hydraulic Power Transmission in Mechanisation 2	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	LIM13	Packaging Techniques and Packaging	(LIM) Logistic Engineering and Management, Master Academic Studies
10.	DM331	Selected Chapters in Transport and Construction Machines	(M00) Mechanical Engineering, Doctoral Academic Studies
11.	DM410	Selected Chapters in Food Processing Machines and Equipment	(M00) Mechanical Engineering, Doctoral Academic Studies
12.	DOM25	Contemporary Procedures for Mobile Machine Designing	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	Vladić J., Malešev P., Šostakov R., Brkljač N.: Dynamic analysis of the load lifting mechanisms, STROJNISKI VESTNIK - JOURNAL OF MECHANICAL ENGINEERING, 54(10), pp. 655-661, 2008.
2.	P.Malešev, J.Vladić, M.Plavšić: Influence of boom cylinder diameter in the duration of lifting hydraulic excavator working device with loaded bucket, XIII Međnarodnaja naučno-tehničkaskaja konferencija "Razvitie sproitelnih mašin...", Moskva, 1996. godine, zbornik radova, strane 292-295
3.	J.Vladić, P. Malešev: Characteristics of modeling the transport and civil engineering machines from the aspect of the application of universal programme packages, XIV Međunarodni naučno-stručni skup Transport u industriji, Beograd, 1996. godine, Zbornik radova, strane 4.8-4.13
4.	P.Malešev, M.Plavšić, J.Vladić: Primena kvazistatičke simulacije kod određivanja ekstremnih naprezanja nosećih konstrukcija, XIII Međunarodni skup Transport u industriji, Beograd, 1994. godine, Zbornik radova, strane 233-238
5.	P. Malešev: Die Aehnlichkeitslehre in der Konstruktion, časopis "Hebezeuge und Foerdermittel", Berlin, Nr. 3, 1998. godina, strane 72-73
6.	J.Vladić, P.Malešev, N.Babin: Experimental analysis of bicable ropeway dynamic behaviour, Mežnarodnaja naučno-tehničkaskaja konferencija "Razvitie stroitelnih mašin...", Moskva, 1996. godine, Zbornik radova, strane 300-303
7.	P. Malešev, J.Vladić: Examination of hydraulic excavator dynamic loads, Časopis Agricultural engineering, Novi Sad, vol. V, broj 1-4, 1999. godine, strane 21-29
8.	P.Malešev, M.Plavšić: Kriterijum nepromenljivosti odnosa ugaonih brzina pri izboru hidrocilindara bagerskog uređaja, Časopis Tehnika, Beograd, broj 3-4, 1997. godine, strane 1-4
9.	P. Malešev: O mogućnosti primene raspodela potrebnih sila u hidrocilindrima bagerskog uređaja pri njihovom dimenzionisanju, Časopis Tehnika, Beograd, broj 5-6, 1996. godine, strane 13-16



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
10.	P.Malešev, M.Plavšić, Z.Ristić: Ocena efikasnosti standardima definisanih pokazatelja u vezi mogućnosti razvijanja sila rezanja kod hidrauličnih bagera, Časopis Tehnika, Beograd, broj 11-12, 1991. godine, strane 755-758		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		1	
Current projects :	Domestic :	0	International : 0

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



Name and last name:		Martinov L. Milan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 10.12.1978	
Scientific or art field:		Biosystems Engineering	
Academic career	Year	Institution	Field
Academic title election:	1999	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Bachelor's thesis	2000	Faculty of Mechanical Engineering - Novi Sad	Mechanical Engineering
PhD thesis	1988	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Magister thesis	1981	Faculty of Agriculture - Zagreb	Biosystems Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	M2407	Biosystem Machines 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	M304	Biosystem Machines 1	(H00) Mechatronics, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	URZP54	Devices in the Process Industry	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	Z475A	Environmental engineering in biosystems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z476	Energy and renewable energy sources in rural areas	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	ZRI421	Occupational Safety in Agriculture and Forestry	(Z01) Safety at Work, Undergraduate Academic Studies
7.	Z475	Inženjerstvo zaštite životne sredine u biosistemu(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z476	Energija i obnovljivi izvori energije u ruralnim oblastima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	H2405	IT in Biosystems	(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies
10.	M2651	Tractors	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	M2652	Agricultural machinery for renewable energy sources	(M22) Mechanization and Construction Engineering, Master Academic Studies
12.	Z477	Sustainable Agriculture Engineering	(Z20) Environmental Engineering, Master Academic Studies
13.	Z478A	Information technology support sustainable biosystems	(Z20) Environmental Engineering, Master Academic Studies
14.	Z477	Inženjerstvo održive poljoprivrede(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	Z478	Informaciono-tehnološka podrška održivom razvoju biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
17.	SZSP14	Contemporary approach to the biosystems engineering	(Z00) Environmental Engineering, Specialised Academic Studies
18.	SZSP16	Engineering of renewable energy sources in agriculture	(Z00) Environmental Engineering, Specialised Academic Studies
19.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies
20.	ZCM12	Logistic of energy biomass	(ZC0) Clean Energy Technologies, Master Academic Studies
21.	ZR406A	System Regulations and EU Practice in Occupational Health and Safety	(Z01) Safety at Work, Master Academic Studies
22.	DM207	Standardization in biosystems engineering related to the safety	(Z01) Safety at Work, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
23.	DOM24	Procedure and Machines for Sustainable Agriculture	(M00) Mechanical Engineering, Doctoral Academic Studies		
24.	HDOK11	Advanced Application of ICT in Agriculture	(H00) Mechatronics, Doctoral Academic Studies		
25.	HDOL11	Advanced application of ICT in agriculture	(H00) Mechatronics, Doctoral Academic Studies		
26.	ZSP14	Contemporary Approaches to Sustainable Engineering Biosystems	(Z00) Environmental Engineering, Doctoral Academic Studies		
27.	ZSP16	Engineering of Renewable Energy in Agriculture	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies		
28.	ZRD235	Systemic regulation in the field of occupational safety and health	(Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Bojić S., Golub M., Müller J., Obradović R., Martinov M.: Convective drying of naked seeded oil pumpkin seeds (Cucurbita pepo L.) in a medium scale batch dryer with different modes of air circulation., Zeitschrift für Arznei- und Gewürzpflanzen, 2012, Vol. 17, No 3, pp. 108-115, ISSN 1431-9292				
2.	Đatkov Đ., Effenberger M., Lehner A., Martinov M., Tešić M., Gronauer A.: New method for assessing the performance of agricultural biogas plants, Renewable energy, 2012, Vol. 40, No 1, pp. 104-112				
3.	Gavrić M., Martinov M., Bojić S., Đatkov Đ., Pavlović M.: Short- and long-term dynamic accuracies determination of satellite-based positioning devices using a specially designed testing facility, Computer and Electronics in Agriculture, Elsevier, Amsterdam, the Netherlands, 2011, Vol. 76, No 2, pp. 297-305				
4.	Scarlat N., Martinov M., Dallemand J.: Assessment of the availability of agricultural crop residues in the European Union: Potential and limitations for bioenergy use, Waste Management, 2010, Vol. 30, No 10, pp. 1889-1897, ISSN 0956-053X				
5.	Kratzeisen M., Starcevic N., Martinov M., Maurer C., Mueller J.: Applicability of biogas digestate as solid fuel, Fuel, 2010, Vol. 89, No 9, pp. 2544-2548				
6.	Martinov M., Mujic I, Müller J. 2007. Impact of drying air temperature on course of drying and quality of Hypericum perforatum L. Zeitschrift für Arznei- und Gewürzpflanzen, 12(3): 124-128.				
7.	Martinov M., Veselinov B., Bojić S., Đatkov Đ.: Investigation of maize cobs crushing – preparation for use as a fuel, Thermal Science - International Scientific Journal, 2011, Vol. 15, No 1, pp. 235-243, ISSN 0354-9836, UDK: 621				
8.	Jokić, S., Mujić, I., Martinov, M., Velić, D., Bilić, M. and J. Lukinac. 2009. Influence of drying procedure on colour and rehydration characteristic of wild asparagus Czech Journal of Food Sciences 27(3): 171-177.				
9.	Oztekin, S, Martinov, M. 2007. Medicinal and Aromatic Crops, Harvesting, Drying and Processing, Haworth Food and Agricultural Products Press, New York.				
10.	Martinov, M., Tesic, M. and M. Ilic. 2006. Latest developments on RES policy, implementation and planning in Serbia. Workshop: „Data Gathering on Renewable Energies for New Member States and Candidate Countries“ organized by European Commission, Joint Research Center, Cavtat-Dubrovnik, 15-16 November 2006, Book of procc. 279-287.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			20		
Total of SCI(SSCI) list papers :			10		
Current projects :			Domestic :	4	International : 1

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES</p>	
	Mechatronics	

Science, arts and professional qualifications



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
5.	Lukić M., Mezei I.: Distributed Distance Sensitive iMesh based Service Discovery in Dense WSN, Lecture notes in computer science, 2012, No 7363, pp. 436-449, ISSN 0302-9743		
6.	Mezei I., Struharik R.: Sistem za prenos video signala baziran na korišćenju FPGA tehnologije, Tehnika - Elektrotehnika, 2010, Vol. 3, pp. 71-74, ISSN 0013-5836, UDK: 321.391.81		
7.	Daniel Mihajlović, Ivan Mezei, Miodrag Brkić, Miloš Živanov, Miloš Slankamenac: A System for Monitoring Well Logging Parameters, Advances in Electrical and Computer Engineering, 2006, Vol. 6(13), No. 1(25), str. 39- 41, ISSN 1582-7445.		
8.	Gašparović B., Mezei I.: Auction Aggregation Protocols for Agent-based Task Assignment in Multi-hop Wireless Sensor and Robot Networks, 10. IEEE/ASME International Conference on Advanced Intelligent Mechatronics, Budimpešta: IEEE/ASME, 3-7 Jul, 2011		
9.	Mezei I., Jančićević N.: Decision Making Based on Localized Auctions in Wireless Sensor Networks, 8. EUROCON, Lisabon, 27-29 April, 2011, pp. 1-4		
10.	Milan Nikolić, Veljko Malbaša, Goran Latiško, Ivan Mezei: Hardware and device driver for the Relay Assistant, rađeno za: Test Laboratories International, College Station, Texas, USA, korisnik: Razne elektroprivrede u svetu, 2001.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		9	
Total of SCI(SSCI) list papers :		1	
Current projects :		Domestic :	International :
		1	2

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Milojević D. Zoran	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 27.10.1997	
Scientific or art field:		Machine Elements, Construction Principles, Machine and Mechanizm	
Academic carier	Year	Institution	Field
Academic title election:	2008	University of Novi Sad - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng. Communication
PhD thesis	2008	University of Novi Sad - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng. Communication
Magister thesis	2002	Faculty of Technical Sciences - Novi Sad	Machine Tools, Flexible Technological Systems and Automatization Processes Design
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.	EOS03	Fundamentals in Mechanical Engineering (Machine elements and Materials)	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
2.	F202	Fundamentals in Mechanical Engineering	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
3.	M108	Engineering Graphic Communications	(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.	M2610	Graphic Communications and CAD	(H00) Mechatronics, Undergraduate Academic Studies
5.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	IA013	Interactive Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
8.	M2511	Methodology of Design	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	AID04	Haptic devices usage in the virtual environment	(F20) Engineering Animation, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Gligorić, R., Milojević, Z.: " TEHNIČKO CRTANJE ", Edicija univerzitetski udžbenik, br 166, ISBN 86-499-0131-5., Univerzitet u Novom Sadu, 2004. god. (356 strana)		
2.	Milojević, Z., Navalusić, S., Zeljković, M.: " NC VERIFICATION AS A COMPONENT OF VIRTUAL MANUFACTURING", Academic Journal of Manufacturing Engineering, Vol. 5, No 2-2007., Editura Politehnica, Timisoara, Romania, pp: 48-54, 2007. ISSN: 1583-7904.		
3.	Milojević, Z., Navalusić, S., Zeljković, M.: " DEVELOPMENT OF THE MODULE FOR REAL TIME VERIFICATION OF NC MACHINING PROGRAM", Journal Manufacturing Engineering Manufacturing Accuracy Increasing problems, Wroclaw, 2007.		
4.	Obradović, R., Milojević, Z.: PLANE SECTION OF CONE AND CYLINDER IN COMPUTER GEOMETRY, Facta Universitatis, Series Architecture and Civil Engineering, Vol. 3, No.2, Niš 2005., pp. 195-207		
5.	Milojević, Z., Zeljković, M., Navalusić, S., Milisavljević, B., Gatalo, R.: " ANALYSIS OF THE ISOPARAMETRIC HEXAHEDRAL ELEMENTS ACCURACY IN THE FEM STRUCTURAL ANALYSIS OF THE MAIN SPINDLE ASSEMBLY", Journal of Machine Engineering, Vol.2 No. 1-2 , Open and Global Manufacturing Design, Wroclaw, 2002. god., pp. 193-203		
6.	Marjanović N., Isailović B., Marjanović V., Milojević Z., Blagojević M., Bojić M.: A practical approach to the optimization of gear trains with spur gears, Mechanism and Machine Theory, 2012, Vol. 53, pp. 1-16, ISSN 0094-114X		
7.	Milojević Z., Navalusić S., Milankov M., Obradović R., Desnica E., Harhaji V.: Methodology for 3D femur approximate model generation, HealthMED, 2011, Vol. 5, No 5, pp. 1211-1217, ISSN 1840-2991		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
8.	Milojević Z., Navalusić S., Milankov M., Obradović R., Harhaji V., Desnica E.: System for femoral tunnel position determination based on the X - ray , HealthMED, 2011, Vol. 5, No 4, pp. 894-900, ISSN 1840-2991		
9.	Milankov M., Savić D., Milojević Z.: Geometric considerations regarding the surface of the tibial insertion of the ACL graft, Knee Surg Sports Traumatol Arthrosc, 2012, Vol. 20, No 9, pp. 1887-1888, ISSN 0942-2056		
10.	Obradović R., Petter O., Vidaković M., Popkonstantinović B., Popović B., Milojević Z.: Using Contemporary 3D Web Technologies in the Process of CAD Model Design (prihvaćen za objavljivanje u 2013), Technics Technologies Education Management, 2013, Vol. 8, No 1, 2/3, ISSN 1840-1503		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	1
		International :	0

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



Name and last name:		Milovančev S. Slobodan	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.10.1975	
Scientific or art field:		Electrical Measurements	
Academic career	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Electrical Measurements
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Cutting Processing Tools and Tribology
Magister thesis	1983	School of Electrical Engineering - Beograd	Electrical Measurements
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E142	Measuring Instruments	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	H210	Measurements in Technical Engineering	(H00) Mechatronics, Undergraduate Academic Studies
3.	BM119E	Technical standards and regulations for medical devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EI411	Measurements in robotics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EIEEM	Electrical and electronic measurements	(BM0) Biomedical Engineering, Undergraduate Academic Studies
6.	EIEEMI	Electrical and electronic measurements in industry	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
7.	EIEKI	Electronic Components in Instrumentation	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EIEMER	Electronic measurements	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	EIMMB M	Methods of measurement and measurement-acquisition systems in biomedicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EIMNV	Measurements of non-electrical quantities	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	EIPMS2	Design and development of industrial devices and measurement systems 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	EIPR1	Laboratory practicum	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
13.	EISMP	Sensors and transducers	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
14.	MR0UL R	Introduction to laboratory practice	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies
15.	DE305S	Electrical Measurements in Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
16.	EIMIO	Measurement systems in industrial environment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	



Science, arts and professional qualifications

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

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

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



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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

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



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

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



Name and last name:		Navalušić V. Slobodan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.12.1975	
Scientific or art field:		Machine Elements, Construction Principles, Machine and Mechanizm	
Academic carieer	Year	Institution	Field
Academic title election:	2006	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng. Communication
PhD thesis	1996	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng. Communication
Magister thesis	1986	Faculty of Technical Sciences - Novi Sad	Machine Elements, Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng. Communication
Bachelor's thesis	1975	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A555	Perspective	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
2.	EOS03	Fundamentals in Mechanical Engineering(Machine elements and Materials)	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
3.	F202	Fundamentals in Mechanical Engineering	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
4.	GG03	Descriptive Geometry	(G00) Civil Engineering, Undergraduate Academic Studies
5.	GI104	Descriptive Geometry in Geomatics	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
6.	M108	Engineering Graphic Communications	(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.	M2610	Graphic Communications and CAD	(H00) Mechatronics, Undergraduate Academic Studies
8.	S012	Descriptive Geometry and Engineering Drawing	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
9.	IA013	Interactive Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
10.	ASO5	Descriptive Geometry with Perspective 1	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ASO9	Descriptive Geometry with Perspective 2	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
12.	ZC007	Engineering Graphic Communications	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	M2511	Methodology of Design	(M22) Mechanization and Construction Engineering, Master Academic Studies
14.	M2655	Maintenance of Agricultural Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
15.	AD0013	Theory of curves and surfaces	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
16.	DM213	Contemporary Methods of Designing and Machine Constructing	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DM409	Selected Chapter in Power and Motion Transmission	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	AID04	Haptic devices usage in the virtual environment	(F20) Engineering Animation, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>			
Representative references (minimum 5, not more than 10)				
1.	Milojević, Z., Navalusić, S., Zeljković, M.: " NC VERIFICATION AS A COMPONENT OF VIRTUAL MANUFACTURING", Academic Journal of Manufacturing Engineering, Vol. 5, No 2-2007., Editura Politehnica, žitimisoara, Romania, pp: 48-54, 2007. ISSN: 1583-7904			
2.	Milojević, Z., Navalusić, S., Zeljković, M.: " DEVELOPMENT OF THE MODULE FOR REAL'TIME VERIFICATION OF NC MACHINING PROGRAM", Journal Manufacturing Engineering Manufacturing Accuracy Increasing problems, Wroclaw, 2007			
3.	Milojević, Z., Navalusić, S., Zeljković, M.: " AN EXACT APPROACH TO 3-AXIS MILLING NC SIMULATION AND VERIFICATION", Journal Manufacturing Engineering Vol.3, No.5, Kosicah, 2006., pp. 14-17			
4.	Milojević, Z., Navalusić, S., Zeljković, M.: " DEVELOPMENT OF THE MODULE FOR VERIFICATION OF NC MACHINING PROGRAM ", Journal of Machine Engineering, Vol.5 No. 1-2, Intelligent Machines and factories, Wroclaw, 2005. god., pp. 177-185			
5.	Zeljko, M., Zeljković, Ž., Navalusić, S., Milojević, Z.: " SOFTWARE SOLUTION DEVELOPMENT FOR THE GRINDING WHEEL PROFILING CYCLE ON THE CNC GRINDING MACHINE", Journal of Machine Engineering, Vol.4 No. 1-2, Machine tools and factories of the knowledge, Wroclaw, 2004. god., pp. 254-262			
6.	Desnica E., Letić D., Gligorić R., Navalusić S.: Implementation of information technologies in higher technical education, Metalurgia international, 2012, Vol. 17, No 3, pp. 76-82, ISSN 1582-2214			
7.	Milojević Z., Navalusić S., Milankov M., Obradović R., Harhaji V., Desnica E.: System for femoral tunnel position determination based on the X - ray , HealthMED, 2011, Vol. 5, No 4, pp. 894-900, ISSN 1840-2991			
8.	Desnica E., Letić D., Navalusić S.: Concept of distance learning model in graphic communication teaching at university level education, Technics Technologies Education Management, 2010, Vol. 5, No 2, pp. 378-388, ISSN 1840-1503			
9.	Milojević Z., Navalusić S., Milankov M., Obradović R., Desnica E., Harhaji V.: Methodology for 3D femur approximate model generation, HealthMED, 2011, Vol. 5, No 5, pp. 1211-1217, ISSN 1840-2991			
10.	Navalusić, S., R. Gatalo, M. Zeljković: Automated Gearbox Design Based on Principles of Expert System Building, JSPE Publication Series No.1, Advancement of Intelligent Production, edited by Eiji Usui, Elsevier Science B. V., Amsterdam - Lausanne - New York - Oxford - Shannon - Tokyo, 1994, pp. 45-50			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	0	International :	0

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



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

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

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 references (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		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (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, June 1-3, 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

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



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



	UNIVERSITY OF NOVI SAD			
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2>			
UNDERGRADUATE ACADEMIC STUDIES		Mechatronics		
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
12.	ZRD235	Systemic regulation in the field of occupational safety and health	(Z01) Safety at Work, Doctoral Academic Studies	
13.	ZRD236	State and development of health and safety at work in the field of electrical engineering	(Z01) Safety at Work, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649			
2.	Đura V. Oros, Veran V. Vasić, Darko P. Marčetić: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components and Systems, 2008, Vol. 36, No. 12, str. 1318- 1336, ISSN 1532-5008.			
3.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445			
4.	Reljić D., Vasić V., Oros Đ.: Power factor correction and harmonics mitigation based on phase shifting approach, 15. International Power Electronics and Motion Control Conference, EPE-PEMC 2012 ECCE Europe, Novi Sad, Serbia, pp. DS3b.12-1 - 12-8, ISBN: 978-1-4673-1971-3, IEEE catalog number CFP 1234A-USB			
5.	Dumnić B., Oros Đ., Milićević D., Matić D., Vasić V.: Vector Control of Induction Generator with Parallel Stator Resistance and Rotor Speed Estimation, 31. Power Electronics, Intelligent Motion, Power Quality PCIM, Nuremberg: Mesago PCIM GmbH, 4-6 Maj, 2010, pp. 608-612, ISBN 978-3-8007-3229-6			
6.	Vasić V., Marčetić D., Oros Đ., Kulić F.: Prediction of local instabilities caused by inverter dead time in AC drive, 13. European Conference on Power Electronics and Applications, Barselona, 8-10 Septembar, 2009, ISBN 9789075815009			
7.	Francuski Lj., Kulić F., Dumnić B., Oros Đ.: Fuzzy PI Controller for Vector Control of Induction Machine, 9. NEUREL- Symposium on Neural Network Applications in Electrical Engineering, Beograd: IEEE SCG Section, CAS - SP Chair, 25-27 Septembar, 2008, pp. 207-210, ISBN 978-1-4244-2903-5			
8.	Reljić D., Vasić V., Oros Đ.: Power Quality Considerations of Variable Speed AC Drives, A Simulation Study, Paper No. T6-2.4, pp. 1-5,, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5			
9.	Reljić D., Milićević D., Adžić E., Dumnić B., Grabić S., Porobić V., Vekić M., Ivanović Z., Katić V., Vasić V., Marčetić D., Oros Đ., Čorba Z.: Modern Laboratory Tools for Experimental Research in the Field of Electric Drives, 15. International Symposium on Power Electronics Ee, Novi Sad: Društvo za energetska elektroniku-Novu Sad, Elektrotehnički institut "Nikola Tesla"-Beograd, Fakultet tehničkih nauka-Novu Sad, 28-30 Oktobar, 2009, pp. 1-5, ISBN 978-86-7892-208-4			
10.	Ostojić D., Vasić V., Đujić D., Oros Đ.: The Influence of Parameter Mismatch on Natural Field Orientation Controlled Induction Motor Speed Estimation, 1. International Conference on Power Electronics and Intelligent Control for EnergyConservation, Varšava, 6-19 Oktobar, 2005			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		3		
Total of SCI(SSCI) list papers :		4		
Current projects :		Domestic :	1	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

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 carier	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 Surveilance 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



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation			
		UNDERGRADUATE ACADEMIC STUDIES		Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	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 control 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 references (minimum 5, not more than 10)					
1.	Stankovski S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Didactic Manipulator in Mechatronics and Industrial Engineering Courses, IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. 572-579, ISSN 0018-9359				
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., Hodolić 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 proizvodnje 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				



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

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

Science, arts and professional qualifications



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

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
15.	D0M23	Clone Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies		
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
17.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies		
18.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Gilezan S., Pantović J., Žunić J.: Partitioning Finite d-Dimensional Integer Grids with Applications, chapter in: Approximation Algorithms and Metaheuristics (editor: T. F. Gonzalez), Chapman				
2.	Ghilezan S., Pantović J., Žunić J., Separating points by parallel hyperplanes - characterization problem, IEEE Transactions on Neural Networks, 2007, Vol. 18, No. 5, 1356-1363.				
3.	Mariangiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantovic, Daniele Varacca: Security types for dynamic web data. Theor. Comput. Sci, 2008, 402(2-3): 156-171				
4.	Pantović J., Vojvodić D., On the cardinality of nonfinitely based functionally complete algebras, Algebra Universalis, Vol. 43, No. 4, 2000, 369-374.				
5.	Pantović J., Tošić R., Vojvodić G., The cardinality of functionally complete algebras on a three element set, Algebra Universalis, Vol. 38, No.2, 1997, 136-140.				
6.	Pantović J., Machida H., Rosenberg I.: Regular sets of operations, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 19, No 1-3, pp. 149-162, ISSN 1542-3980				
7.	Machida H., Pantović J.: Three classes of maximal hyperclones, Journal of Multiple Valued Logic and Soft Computing, 2012, Vol. 18, No 2, pp. 201-210, ISSN 1542-3980				
8.	Pantović J., Machida H.: Maximal hyperclones on E2 as hypercores, Journal of Multiple Valued Logic and Soft Computing, 2009, pp. 1-13, ISSN 1542-3980				
9.	Pantović J., Tošić R., Vojvodić G., Relative completeness with respect to two unary functions, Discrete Applied Mathematics, Vol.113 (2-3), 2001, 337-342.				
10.	Marinagiola Dezani-Ciancaglini, Silvia Ghilezan, Jovanka Pantović, Security types for dynamic web data, Proceedings of Trustworthy Global Computing, Lecture Notes in Computer Science, 2007, Vol. 4661, str. 263-280.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			30		
Total of SCI(SSCI) list papers :			13		
Current projects :			Domestic :	2	International : 3

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES Mechatronics		



Science, arts and professional qualifications



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

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

Science, arts and professional qualifications



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



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

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

Science, arts and professional qualifications



Name and last name:		Radivojević D. Radoš	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1991	
Scientific or art field:		Sociology	
Academic career	Year	Institution	Field
Academic title election:	2001	Faculty of Technical Sciences - Novi Sad	Sociology
PhD thesis	1990	Faculty of Philosophy - Novi Sad	Sociology
Magister thesis	1983	Faculty of Philosophy - Beograd	Sociology
Bachelor's thesis	1973	Faculty of Philosophy - Beograd	Sociology
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E106	Sociology of Technique	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E251	Sociological Aspects of Technical Development	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	E251A	Sociological Aspects of Technical Development	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies
4.	F108	Sociology of Culture	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
5.	GG02	Sociology and Economics in Civil Engineering	(G00) Civil Engineering, Undergraduate Academic Studies
6.	GG105	Sociology of Work	(G00) Civil Engineering, Undergraduate Academic Studies
7.	M318	Sociology of Technique	(F10) Engineering Animation, Undergraduate Academic Studies (G10) Geodesy and Geomatics, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies
8.	Z310	Social Ecology	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	A206	Sociology and Economy of the Built Environment	(A00) Architecture, Undergraduate Academic Studies
10.	ASO311	Sociology of Art and Culture	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
11.	ETI41	Sociology of Technique	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	IM1003	Sociology of Work	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
13.	A005S	Urban sociology and economics: selected chapters	(A00) Architecture, Specialised Academic Studies
14.	ZRMI3A	Sociological and Legal Aspects of Occupational Safety	(Z01) Safety at Work, Master Academic Studies
15.	A005	Urban Sociology and Economics – Selected Chapters	(A00) Architecture, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sociologija nauke, Stylos, Novi Sad, 1997.		
2.	Tehnika i društvo, Fakultet tehničkih nauka, Novi Sad, 2003.		
3.	Sociologija naselja, Fakultet tehničkih nauka, Novi Sad, 2004.		



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

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

Science, arts and professional qualifications



Name and last name:		Ralević M. Nebojša	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1990	
Scientific or art field:		Mathematics	
Academic career	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1997	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1994	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1990	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.	H103	Mathematics 1	(H00) Mechatronics, Undergraduate Academic Studies
2.	H107	Mathematics 2	(H00) Mechatronics, Undergraduate Academic Studies
3.	M4201	Mathematics 3	(M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
5.	P216	Numerical Analysis	(P00) Production Engineering, Undergraduate Academic Studies
6.	OM502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
7.	OM508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
8.	OM517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
9.	OML502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
10.	OML508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	Z506	20BAAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	D0M02	Partial Differential Equations	(OM1) Mathematics in Engineering, Doctoral 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.	D0M38	Non-linear Equations and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	D0M39	Optimization Methods and Mathematical Modelling	(OM1) Mathematics in Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
20.	DOM54	Computational geometry	(F20) Engineering Animation, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
21.	DOM55	Pattern Recognition	(F20) Engineering Animation, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies		
22.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	E. Pap, N. Ralević, Pseudo-Laplace transform, Nonlinear Analysis: Theory Methods and Applications, 33 (1998), 533-550.				
2.	N. M. Ralević, Lj. M. Nedović, T. Grbić, The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral, Fuzzy Sets and Systems 155 (2005) 89-101.				
3.	Lj. M. Nedović, N. M. Ralević, T. Grbić, Large deviation principle with generated pseudo measures, Fuzzy Sets and Systems 155 (2005) 65-76.				
4.	T. Lukić, N. M. Ralević, Geometric Mean Newton's Method for Simple and Multiple Roots, Applied Mathematics Letters (accepted).				
5.	N. M. Ralević, One characterization of Navier-Stokes equation, Acta Mechanica Slovaca, Košice, ročník 8., č. 4/2004, str. 97-102.				
6.	N. Ralević, Some new properties of g-calculus, Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. 24, 1 (1994), 139-157.				
7.	E. Pap, N. Ralević, Pseudo operations on finite intervals, Novi Sad J. Math. Vol. 29, No. 1, 1999, 1-6				
8.	N. M. Ralević, A generalization of the Pseudo-Laplace transform, Novi Sad J. Math. Vol. (accepted).				
9.	I. Kovačević, N. Ralević, Funkcionalna analiza, Edicija tehničke nauke, Novi Sad (2004), 203 str.				
10.	I. Kovačević, N. Ralević, Matematička analiza I (uvodni pojmovi i granični procesi), Novi Sad (2000), 155 str.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			28		
Total of SCI(SSCI) list papers :			10		
Current projects :			Domestic :	2	International : 0

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

Science, arts and professional qualifications



Name and last name:		Rapać R. Milan	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.2006	
Scientific or art field:		Automatic Control and System Engineering	
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Master's thesis	2006	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU41	Digital Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E237	Optimization Methods	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E237A	Optimization Methods	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI005	Intelligent Control Systems	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	H1405	Optimization Methods	(H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	(H00) Mechatronics, Undergraduate Academic Studies
7.	BM118A	Nonlinear programming and optimal control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BM130A	Digital control systems in bioengineering	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2316	Real-time control systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies
10.	SEAU01	Nonlinear programming and evolutionary computations	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
11.	SEAU03	Real-time control algorithms	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	AU511	Adaptive and Advanced Control	(E20) Computing and Control Engineering, Master Academic Studies (MR0) Measurement and Control Engineering, Master Academic Studies
13.	A118S	Contemporary technologies applied to architecture and urbanism	(A00) Architecture, Specialised Academic Studies
14.	AT03	Optimization and control techniques in architectural design	(AH0) Architecture, Master Academic Studies
15.	AT04	Contemporary theories and technologies applied to architecture, urbanism and design 1	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies (AH0) Architecture, Master Academic Studies
16.	AT05	Contemporary theories and technologies applied to architecture, urbanism and design 2	(AH0) Architecture, Master Academic Studies
17.	DAU010	Selected Chapters in Nonlinear Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	A118	Contemporary technologies applied to architecture and urbanism	(A00) Architecture, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
19.	DAU005	Selected Chapters in Optimization Methods	(E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Milan R. Rapać, "Optimalno i suboptimalno upravljanje klasom sistema sa raspodeljenim parametrima", doktorska disertacija, FTN Novi Sad, 2011		
2.	Milena Petković, Milan R. Rapać, Zoran D. Jeličić, Alessandro Pisano (2012) On-line adaptive clustering for process monitoring and fault detection, Expert Systems with Applications, Volume 39 Issue 11, September, 2012 Pages 10226-10235		
3.	Milan R. Rapać, Zoran D. Jeličić, Optimal control of heat diffusion systems, Nonlinear Dynamics, Vol 62, Number 1-2, 39-51, 2010		
4.	Alessandro Pisano, Milan R. Rapać, Zoran D. Jeličić, Elio Usai, Sliding mode control approaches to robust regulation of linear multivariable fractional-order dynamics, International Journal of Robust and Nonlinear Control, Volume 20, Issue 18, pages 2045–2056		
5.	Željko Kanović, Milan Rapać, Zoran Jeličić, Generalized Particle Swarm Optimization Algorithm - Theoretical and Empirical Analysis with Application in Fault Detection, Applied Mathematics and Computation (in press, doi:10.1016/j.amc.2011.05.013)		
6.	Milan R. Rapać, Željko Kanovic, Time-Varying PSO - Convergence Analysis, Convergence Related Parameterization and New Parameter Adjustment Schemes, Information Processing Letters , 109 (2009) 548–552		
7.	Milan R. Rapać, Tomislav B. Šekara, Novel direct optimal and indirect method for discretization of linear fractional systems, Electrical Engineering, DOI: 10.1007/s00202-011-0195-5		
8.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapać, Teodor M. Atanacković, Stevan Pilipović, A new approach to the compartmental analysis in pharmacokinetics: fractional time evolution of diclofenac, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2, (2010) 119-134		
9.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapać, Teodor M. Atanacković, Stevan Pilipović, Remarks on the mass balance for multi-compartmental models; a nonlinear compartmental model, Journal of Pharmacokinetics and Pharmacodynamics, Vol. 37, No. 2 (2010) 217-220		
10.	Jovan K. Popović, Diana Dolićanin, Milan R. Rapać, Stevan L. Popović, Stevan Pilipović, Teodor Atanacković, A nonlinear two compartmental fractional derivative model, European Journal of Drug Metabolism and Pharmacokinetics, (in press: DOI 10.1007/s13318-011-0057-6)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		85	
Total of SCI(SSCI) list papers :		11	
Current projects :		Domestic :	0
		International :	0

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

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 carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E226	Automatic Control Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (H00) Mechatronics, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	GI014	Celestial Mechanics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI016	Physical Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI404A	Digital Terrain Models	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI409A	Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M3408	Automatic Control Systems	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	BM119A	The application of geoinformation technologies and systems in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	GG226	Automatic control systems in geomatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
10.	GG99	Geospatial technologies - basics	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
11.	M3409	Automatic control systems	(M30) Energy and Process Engineering, Undergraduate Academic Studies
12.	ZC037	Automation applied in the industry and buildings	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies
15.	GI537	Geosensor networks	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	M3417	Applied industrial automatization	(M30) Energy and Process Engineering, Master Academic Studies
17.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI04	Selected Chapters in Underground Infrastructure Detection	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
21.	DGI004	Selected Chapters in Underground Infrastructure Utility Detection	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
22.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
23.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
24.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
25.	DGI016	Selected Chapters in Systems and Signals	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
26.	DGI018	Selected Chapters of Automatic Control Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Aleksandar Ristić, Dušan Petrovački, Miro Govedarica: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data, Computers & Geosciences, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004, (IF2010 1.416)				
2.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar: Metadata Catalogues in Spatial Information Systems (Review), GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)				
3.	Aleksandar Ristić, Biljana Abolmasov, Miro Govedarica, Dušan Petrovački, Aleksandra Ristić: Shallow-landslide spatial structure interpretation using a multi-geophysical approach, Acta geotechnica slovenica, (2012), vol. 9, issue 1, pp 46-59, (IF 2011, 0.100)				
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY, Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)				
5.	Ristić Aleksandar, Govedarica Miro, Petrovački Dušan: GNSS status and perspective, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 1, Str. 6-10, UDK 63:004(497.11)				
6.	Ristić Aleksandar, Petrovački Dušan, Govedarica Miro: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP) 2010, ISSN: 1821-4487, Vol. 14, No. 2, Str. 76-80, UDK 621.396.96(075.8)				
7.	Ristić A., Petrovački D., Govedarica M., Popov S.: Detekcija podzemnih voda i tokova Georadarom, Vodoprivreda, 2007, Vol. 39, Broj 229-230, str. 344-349, ISSN 0350-0519, UDK: 551.491.5				
8.	Ristić A., Petrovački D., Govedarica M. : Flooding bank structure modelling using GPR, GNSS and airborne laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 99-103, ISBN 978-3-938373-93-4				
9.	Ristić A., Govedarica M., Petrovački D. : Landslide analysis using GPR, GNSS and terrestrial laser scanning technologies, 3. The International Symposium on Global Navigation Satellite Systems, Space- Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, 30-2 Novembar, 2009, str. 90-94, ISBN 978-3-938373-93-4				
10.	Govedarica M., Petrovački D., Ristić A:GNSS - Based Ground Penetration Radar Applications, 2. The International Symposium on Global Navigation Satellite Systems, Space-Based and Ground-Based Augmentation Systems and Applications, Berlin: Senate Department for Urban Development Berlin, EUPOS ISC, UN OOSA, ICG, 11-14 Novembar, 2008, str. 93-94				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			2		
Total of SCI(SSCI) list papers :			3		
Current projects :			Domestic :	1	International : 1

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

Science, arts and professional qualifications



Name and last name:		Ristić M. Sonja	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.2006	
Scientific or art field:		Information-Communication Systems	
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Information-Communication Systems
PhD thesis	2003	Faculty of Economics - Subotica	Information-Communication Systems
Magister thesis	1994	Faculty of Economics - Subotica	Information-Communication Systems
Bachelor's thesis	1989	Faculty of Economics - Subotica	Economics
Bachelor's thesis	1983	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.	Z201	Fundamentals of Computer Technologies	(Z20) Environmental Engineering, Undergraduate Academic Studies
2.	Z201A	Fundamentals of Computer Technologies	(Z01) Safety at Work, Undergraduate Academic Studies
3.	ISIT3A	Metodologije i sistemi za upravljanje IT resursima	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
4.	H401	Object Oriented Technologies	(H00) Mechatronics, Undergraduate Academic Studies
5.	II1002	Computer Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	IM1010	Fundamentals of Information Technologies	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1506	Database Design	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
8.	IM1512	Object-oriented Information Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
9.	IM1516	Database Systems	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
10.	IM1519	Information System Architecture and Computer Networks	(I20) Engineering Management, 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.	IMDS33	Structures of Modern Information and Communication Systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	IMDS36	Advanced data models and database systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
14.	PLM11	Product Data Management	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
15.	LIM02	Business Information Systems	(LIM) Logistic Engineering and Management, Master Academic Studies
16.	E2537	IT Resources Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation</h2>					
UNDERGRADUATE ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
17.	IIDS8	Selected chapters from Information, management and communication systems	(G10) Geodesy and Geomatics, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies		
18.	IM2513	Data Warehouse Design	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies		
19.	IMDS73	Selected chapters from Information management	(I22) Engineering Management, Specialised Academic Studies		
20.	PLM04	Product Data Management	(I20) Engineering Management, Specialised Professional Studies		
21.	IMDR33	Structures of Modern Information and Communication Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies		
22.	IMDR36	Advanced Data Models and Database Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
23.	IMDR73	Selected chapters from Information management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies		
24.	IMDR81	Selected chapters from Information, management and communication systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Luković I., Popović A., Mostić J., Ristić S.: A Tool for Modeling Form Type Check Constraints and Complex Functionalities of Business Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 2, pp. 359-385, ISSN 1820-0214				
2.	Lukovic I, Mogin P, Pavicevic J, Ristic S, An Approach to Developing Complex Database Schemas Using Form Types, Software: Practice and Experience, Volume 37, Issue 15, Pages 1621-1656, December 2007. Online ISSN: 1097-024X Print ISSN: 0038-0644 Copyright 2007 John Wiley & Sons, Ltd. Hoboken, USA, Published Online: May 29 2007 12:28PM DOI: 10.1002/spe.820				
3.	Aleksić S., Ristić S., Luković I., Čeliković M.: A Design Specification and a Server Implementation of the Inverse Referential Integrity Constraints, Computer Science and Information Systems (ComSIS), 2013, Vol. 10, ISSN 1820-0214 (Accepted for publishing)				
4.	Ristić S., Luković I., Pavičević J., Mogin P.: Resolving Database Constraint Collisions Using IIS*Case Tool, Journal of Information and Organizational Sciences (JIOS), 2007, Vol. 31, No 1, pp. 187-206, ISSN 1846-3312, UDK: 004.651				
5.	Luković I., Ristić S., Mogin P., Pavičević J.: Database Schema Integration Process – A Methodology and Aspects of Its Applying, Novi Sad Journal of Mathematics, 2006, Vol. 36, No 1, pp. 115-150, ISSN 1450-5444				
6.	Luković I., Mogin P., Govedarica M., Ristić S.: The Structure of A Subschema and Its XML Specification, Journal of Information and Organizational Sciences (JIOS), 2002, Vol. 26, No 1-2, pp. 69-85, ISSN 1846-3312				
7.	Ristić S., Aleksić S., Luković I., Banović J.: Form-Driven Application Development, Acta Electrotechnica et Informatica, Faculty of Electrical Engineering and Informatics, Technical University Kosice, 2012, Vol. 12, No 1, pp. 9-16				
8.	Ristić S.: Lean Thinking Principles in the Context of Model-Driven Software Development, 1. International Scientific Conference on Lean Technologies - LeanTech, Novi Sad: Faculty of Technical Sciences, 13-14 Septembar, 2012, pp. 233-239, ISBN 978-96-7892-445-3				
9.	Ristić S., Luković I., Aleksić S., Banović J., Al-Dahoud A.: An Approach to the Specification of User Interface Templates for Business Applications, 5. Balkan Conference in Informatics, Novi Sad: ACM New York, USA, 16-20 Septembar, 2012, pp. 124-129, ISBN 978-1-4503-1240-0				
10.	Ristić S., Rakić-Skoković M., Al-Dahoud A.: An Overview of the Approaches for A PLM Application's Customization, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad: Faculty of Technical Sciences; Department of Industrial Engineering and Management; University of Novi Sad, 14-16 Septembar, 2011, pp. 217-222, ISBN 978-86-7892-341-8				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			14		
Total of SCI(SSCI) list papers :			3		
Current projects :			Domestic :	2	International : 2

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

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



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



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

Science, arts and professional qualifications

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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>			
Representative references (minimum 5, not more than 10)				
2.	Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575			
3.	Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016			
4.	Stankovski, S., Ostojić, G., Raković, M., Trajan, L., Šenk, I., Nikolić, M.: Zbirka rešenih zadataka iz: Programiranje i primena programabilno logičkih kontrolera, Fakulte tehničkih nauka, 2009			
5.	Stankovski, S., Rakić-Skoković, M., Šešlija, D., Ostojić, G.: Primena RFID tehnologije u automatizaciji			
6.	Stankovski S., Lazarević M., Ostojić G., Čosić I., Purić R.: RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, No 4, pp. 364-370, ISSN 0144-5154			
7.	Ostojić G., Lazarević M., Stankovski S., Čosić I.: RFID Technology Application in Disassembly Systems , Strojinski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 11, pp. 759-767, ISSN 0039-2480, UDK: 658.5			
8.	Popović B., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote Control of Laboratory Equipment for Basic Electronics Courses: A LabVIEW-based Implementation DOI: 10.1002/cae.20531, Computer Applications in Engineering Education, 2011, ISSN 1061-3773			
9.	Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML Robot Grasping Process Improvement, Iranian Journal of Science & Technology, 2011, Vol.35, No M1, pp. 197-207, Transactions B ISSN: 1028-6284			
10.	Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators, Iranian Journal of Science & Technology, Transactions B, 2012, Vol. 36, No M1, pp. 95-106, ISSN: 1028-6284			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	25			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	3	International :	4

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

Science, arts and professional qualifications



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

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

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



Science, arts and professional qualifications



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

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

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



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

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

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

Science, arts and professional qualifications



Name and last name:		Šešlija D. Dragan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.06.1985	
Scientific or art field:		Mechatronics, Robotics and Automation and Integral Systems	
Academic carier	Year	Institution	Field
Academic title election:	2007	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Magister thesis	1989	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Intelligent Systems
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Internal Combustion Engines
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H1401	Material Handling Technologies	(H00) Mechatronics, Undergraduate Academic Studies
2.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1504	Computer Integration of Production Systems	(H00) Mechatronics, Undergraduate Academic Studies
4.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	II102	The basic theory of industrial systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
6.	II1000	Fundamentals of industrial engineering and management	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	II1013	Material Handling Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1029	Computer integrated manufacturing	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
11.	II1042	Automation of Continual Processes	(I10) Industrial Engineering, Undergraduate Academic Studies
12.	IM1001	Fundamentals of industrial engineering	(I20) Engineering Management, Undergraduate Academic Studies
13.	IM1117	Computer integrated manufacturing (CIM)	(I20) Engineering Management, Undergraduate Academic Studies
14.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
15.	HDOK4 S	Selected chapters from automation of work processes	(I12) Industrial Engineering, Specialised Academic Studies
16.	I829	Automation of packaging processes	(I10) Industrial Engineering, Master Academic Studies
17.	I830	Energy efficiency of compressed air systems	(I10) Industrial Engineering, Master Academic Studies
18.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
19.	PLM04	Sustainable Production and LCA	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
20.	LIM34	Material Handling	(LIM) Logistic Engineering and Management, Master Academic Studies
21.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
22.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
23.	BMIM4C	Fluid filtration and separation	(BM0) Biomedical Engineering, Master Academic Studies
24.	I911	Sustainable production	(I10) Industrial Engineering, Master Academic Studies



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
25.	IIDS27	Selected chapters of the energy efficiency of automated systems	(I12) Industrial Engineering, Specialised Academic Studies
26.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
27.	IM2103	New technologies in engineering and management	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
28.	HDOK-4	Selected Chapters in Production Process Automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
29.	HDOKL4	Selected chapters from automation of work processes	(H00) Mechatronics, Doctoral Academic Studies
30.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
31.	IMDR86	Selected chapters from energy efficiency of compressed air systems	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
32.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Ignjatović I., Komenda T., Šešlija D., Malisa V.: Optimisation of compressed air and electricity consumption in a complex robotic cell, Robotics and Computer-integrated Manufacturing, 2012, ISSN 0736-5845		
2.	Dudić S., Ignjatović I., Šešlija D., Blagojević V., Miodrag S.: Leakage quantification of compressed air using ultrasound and infrared thermography, MEASUREMENT, 2012, Vol. 45, No 7, pp. 1689-1694, ISSN 0263-2241		
3.	Ignjatović I., Šešlija D., Tarjan L., Dudić S.: Wireless sensor system for monitoring of compressed air filters, Journal of Scientific and Industrial Research (JSIR), 2012, Vol. 71, No 5, pp. 334-340, ISSN 0022-4456		
4.	Dudić S., Ignjatović I., Šešlija D., Blagojević V., Stojiljković M.: Leakage quantification of compressed air on pipes using thermovision, Thermal Science, 2012, Vol. 16, No 2, pp. 621-631, ISSN 0354-9836		
5.	Čajetinac S., Šešlija D., Aleksandrov S., Todorović M.: PLC Controller used for PWM Control and for Identification of Frequency Characteristics of a Pneumatic Actuator, Electronics and electrical engineering, 2012, Vol. 123, No 7, pp. 21-26, ISSN 1392-1215		
6.	Blagojević V., Šešlija D., Stojiljković M., Dudić S.: Efficient control of servo pneumatic actuator system utilizing by-pass valve and digital sliding mode, Sadhana - Academy Proceedings in Engineering Science, 2012, ISSN 0256-2499		
7.	Blagojević V., Šešlija D., Miodrag S.: Cost effectiveness of restoring energy in execution part of pneumatic system, Journal of Scientific and Industrial Research, 2011, Vol. 70, pp. 170-176, ISSN 0022-4456		
8.	Šešlija D., Ignjatović I., Dudić S., Lagod B.: Potential energy savings in compressed air systems in Serbia, African Journal of Business Management, 2011, Vol. 5, No 14, pp. 5637-5645, ISSN 1993-8233		
9.	Šešlija D., Ignjatović I., Dudić S.: Increasing the Energy Efficiency in Compressed Air Systems, Rijeka, InTech, 2012, str. 151-174, ISBN 978-953-51-0800-9		
10.	Stankovski S., Šešlija D., Rakić-Skoković M., Ostojić G.: Primena RFID tehnologije u automatizaciji, Novi Sad, Centar za automatizaciju i mehatroniku, 2009, ISBN 978-86-907827-3-4		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		10	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	0
		International :	3

	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p>Study Programme Accreditation</p> <p>UNDERGRADUATE ACADEMIC STUDIES</p>	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Šormaz N. Dušan	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Production Systems, Organization and Management	
Academic carier	Year	Institution	Field
Academic title election:	2009		Production Systems, Organization and Management
Magister thesis	1995	University of Southern California - Nepoznato	Computer Science
PhD thesis	1994	University of Southern California - Nepoznato	Engineering Management
Magister thesis	1985	Faculty of Technical Sciences - Novi Sad	Engineering Management
Bachelor's thesis	1979	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
2.	H1504	Computer Integration of Production Systems	(H00) Mechatronics, Undergraduate Academic Studies
3.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
4.	II102	The basic theory of industrial systems	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
5.	II1000	Fundamentals of industrial engineering and management	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	II1013	Material Handling Technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
7.	IM1719	Implementation of information systems in insurance	(I20) Engineering Management, Undergraduate Academic Studies
8.	EE546	Entrepreneurship in Electrical Engineering	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
10.	I829	Automation of packaging processes	(I10) Industrial Engineering, Master Academic Studies
11.	I830	Energy efficiency of compressed air systems	(I10) Industrial Engineering, Master Academic Studies
12.	IMDS56	Product traceability during the lifetime	(I12) Industrial Engineering, Specialised Academic Studies
13.	IMDS57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	(I12) Industrial Engineering, Specialised Academic Studies
14.	IMDS62	Integration of business processes of companies	(I22) Engineering Management, Specialised Academic Studies
15.	IMDS93	Virtual Enterprises and Collaborative Systems	(I22) Engineering Management, Specialised Academic Studies
16.	LIM34	Material Handling	(LIM) Logistic Engineering and Management, Master Academic Studies
17.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
18.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
19.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
20.	I911	Sustainable production	(I10) Industrial Engineering, Master Academic Studies
21.	IIDS10	Effective technological and production structures	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
22.	IIDS9	Effective Production and Service Systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
23.	IM2315	Product and Process Improvement Projects	(I20) Engineering Management, Master Academic Studies
24.	IMDR31	Effective Production and Service Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies



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	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
25.	IMDR56	Traceability of Product Lifecycle	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
26.	IMDR62	Enterprise Business Process Integration	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27.	IMDR93	Virtual Enterprises and Collaborative Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
28.	IMDR85	Effective technological and production structures	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Sormaz DN, Arumugam J, Ganduri C, 2007, Integration of rule-based process selection with virtual machining for distributed manufacturing planning, Process Planning and Scheduling for Distributed Manufacturing, 61-90		
2.	Šormaz DN, Arumugam J, Harihara RS, Patel C, Neerukonda N, 2010, Integration of product design, process planning, scheduling, and FMS control using XML data representation, Robotics and Computer-Integrated Manufacturing 26 (6), 583-595		
3.	Šormaz DN, Rajaraman SN, 2008, Problem space search algorithm for manufacturing cell formation with alternative process plans, International Journal of Production Research 46 (2), 345-369		
4.	Sormaz DN, Arumugam J, Rajaraman S, 2004, Integrative process plan model and representation for intelligent distributed manufacturing planning, International Journal of Production Research, Vol. 42, No. 17, p. 3397 - 3417.		
5.	Koonce D, Judd R, Sormaz D, Masel DT, 2003, A hierarchical cost estimation tool, Computers in Industry 50 (3), 293-302		
6.	Sormaz DN, Khoshnevis B, 2003, Generation of alternative process plans in integrated manufacturing systems, Journal of Intelligent Manufacturing 14 (6), 509-526		
7.	Šormaz DN, Tennety C, 2010, Recognition of interacting volumetric features using 2D hints, Assembly Automation 30 (2), 131-141		
8.	Sormaz DN, Pisipati DV, Borse PA, 2006, Virtual manufacturing of milling operations with multiple tool paths, International journal of manufacturing technology and management 9 (3), 237-264		
9.	Sormaz DN, Khoshnevis B, 2000, Modeling of manufacturing feature interactions for automated process planning, Journal of manufacturing systems, 19 (1), 28-45		
10.	Nešić S, Li H, Huang J, Sormaz D, 2009, An open source mechanistic model for CO ₂ /H ₂ S Corrosion of carbon steel, CORROSION 2009, March 22 - 26, 2009 , Atlanta, GA		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		126	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	0
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

Name and last name:		Šostakov S. Rastislav	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.03.1974	
Scientific or art field:		Machine Constructions, Transport Systems and Logistics	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
Magister thesis	1983	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
Bachelor's thesis	1974	Faculty of Mechanical Engineering - Novi Sad	Machine Constructions, Transport Systems and Logistics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H2404	Driving Systems Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies
2.	M2408	Cranes	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
3.	M2507	Methods of experimental testing of machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
4.	M301	Driving Systems	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
5.	M312A	Fundamentals of Transportation Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	ZR308A	Security and Safety Equipment for working	(Z01) Safety at Work, Undergraduate Academic Studies
7.	ZR407A	Occupational safety in internal transport, reloading and warehouse	(Z01) Safety at Work, Undergraduate Academic Studies
8.	M2526	Working Strength	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	M2541	Occupational Safety and Protection in Operation with Machinery	(M22) Mechanization and Construction Engineering, Master Academic Studies
10.	LIM12	Transport Technique and Material Flow	(LIM) Logistic Engineering and Management, Master Academic Studies
11.	LIM27	Logistics of Warehousing and Commissioning	(LIM) Logistic Engineering and Management, Master Academic Studies
12.	LIM29	Simulation of Large Logistic Systems	(LIM) Logistic Engineering and Management, Master Academic Studies
13.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
14.	DM214	Selected Chapters in Working Strength	(M00) Mechanical Engineering, Doctoral Academic Studies
15.	DM331	Selected Chapters in Transport and Construction Machines	(M00) Mechanical Engineering, Doctoral Academic Studies
16.	DM410	Selected Chapters in Food Processing Machines and Equipment	(M00) Mechanical Engineering, Doctoral Academic Studies
17.	DOM25	Contemporary Procedures for Mobile Machine Designing	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	DOM28	Modeling and Simulation of Driving Systems	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	ZRD238	State and trends of development safety and health at work in the area mechanical engineering	(Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	J. Vlačić, P. Malešev, R. Šostakov, N. Brkljač: Dynamic Analysis of the Load Lifting Mechanisms, Strojniski vestnik - Journal of Mechanical Engineering, Vol. 54, No 10, pp. 655-661, 2008, ISSN: 0039-2480.		
2.	N. Zuber, R. Šostakov, R. Bajrić: Application of vibration signal analysis and artificial intelligence methods in fault identification of rolling element bearings, Technics Technologies Education Management - TTEM, Vol. 6, No 1, pp. 3-10, 2011, ISSN: 1840-1503.		
3.	R. Šostakov, D. Uzelac, F. Časnji: Surveying The Transient Operating Regimes Of A Driving Mechanism With A Hydrodynamic Coupling, "Mobility&Vehicles Mechanics, Kragujevac, 1999, Vol. 25, No 2&3, p. 47-54		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
4.	D. Uzelac, R. Šostakov, S. Tašin: Starting Of An Electric Motor Drive With Hydrodynamic Coupling, "Facta Universitatis", Series "Mechanical Engineering", Nis, 1998, Vol. 1, No 5, p. 537-545		
5.	R. Šostakov, D. Uzelac, N. Brkljač: Metodologija praćenja rada pogonskog mehanizma sa hidrodinamičkom spojnicom i određivanja trajanja njegovog zaleta, "Tehnika, Mašinstvo", Beograd, 54(2005)3, str. 17-24		
6.	R. Šostakov, N. Babin, N. Brkljač: Analiza mogućnosti i postupaka uklapanja domaćih u međunarodne bazne standarde iz oblasti dizalica, I međunarodni naučno-stručni skup "Teška mašinogradnja '93", Kruševac, Vrnjačka Banja, 1993, Zbornik radova, str. 85-90		
7.	R. Sostakov, N. Babin, M. Zubic: The Concept Of Surveying The Transient States Of Crane Driving Mechanisms Operation Based On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. - 12. 12. 1996, Collected Papers, p. 2.20.-2.25		
8.	R. Sostakov, J. Vladoić, D. Uzelac, N. Brkljač: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplung aufgrund des vereinigen M-n Diagrams, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. - 12. 12. 1996, Collected Papers, p. 4.67.-4.72		
9.	R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. - 12. 12. 1996, Collected Papers, p. 4.99.-4.102		
10.	R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. - 12. 12. 1996, Collected Papers, p. 4.162.-4.167		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	International :
		1	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:	Vasić V. Veran		
Academic title:	Full Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.04.1995		
Scientific or art field:	Power Electronics, Machines and Facilities		
Academic career	Year	Institution	Field
Academic title election:	2011		Power Electronics, Machines and Facilities
PhD thesis	2001	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Magister thesis	1996	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities

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

	ID	Course name	Study programme name, study type
1.	E133	Power Converters	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE304	Electric Machines 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE307	Electric Machines 2	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE401	Electric Machines 3	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EOS18	Industrial Protocols and Network	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
7.	F203	Electrical Machines	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
8.	H351	Electrical Machines	(H00) Mechatronics, Undergraduate Academic Studies
9.	EE424A	Power Electronic in Drive and Industry	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DE210S	Selected topics in electrical machines	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE520	Design of Electrical Machines and Converters	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
12.	DE210	Selected Chapters in Electric Machinery	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DOM28	Modeling and Simulation of Driving Systems	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	Dumnić B., Katić V., Vasić V., Milićević D., Delimar M.: An Improved MRAS Based Sensorless Vector Control Method for Wind Power Generator" Journal of Applied Research and Technology – JART, October 2012, Center for Applied Sciences and Technological Development, National Autonomous University of Mexico (UNAM), ISSN: 1665-6423, [Online]. Available: http://www.jart.ccadet.unam.mx/volumen10_5.htm
2.	Kulić F., Matić D., Dumnić B., Vasić V.: Optimal fuzzy controller tuned by TV-PSO for induction motor speed control, Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 1, pp. 49-54, ISSN 1582-7445
3.	Vasić V., Marčetić D., Jeftenić B., Vladan J.: Speed-Sensorless Control of Induction Motor Based on Reactive Power with Rotor Time Constant Identification, IET ELECTR POWER APP, 2010, Vol. 4, No 6, ISSN 1751-8660
4.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649



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

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



Name and last name:		Veselinov V. Branislav	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.08.1974	
Scientific or art field:		Biosystems Engineering	
Academic carier	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Magister thesis	1989	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Bachelor's thesis	1973	Faculty of Mechanical Engineering - Novi Sad	Internal Combustion Engines
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	M2407	Biosystem Machines 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	M304	Biosystem Machines 1	(H00) Mechatronics, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	URZP54	Devices in the Process Industry	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	Z475A	Environmental engineering in biosystems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z476	Energy and renewable energy sources in rural areas	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	ZRI421	Occupational Safety in Agriculture and Forestry	(Z01) Safety at Work, Undergraduate Academic Studies
7.	Z475	Inženjerstvo zaštite životne sredine u biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z476	Energija i obnovljivi izvori energije u ruralnim oblastima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	H2405	IT in Biosystems	(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies
10.	M2651	Tractors	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	M2652	Agricultural machinery for renewable energy sources	(M22) Mechanization and Construction Engineering, Master Academic Studies
12.	Z477	Sustainable Agriculture Engineering	(Z20) Environmental Engineering, Master Academic Studies
13.	Z478A	Information technology support sustainable biosystems	(Z20) Environmental Engineering, Master Academic Studies
14.	Z477	Inženjerstvo održive poljoprivrede(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	Z478	Informaciono-tehnološka podrška održivom razvoju biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	SZSP14	Contemporary approach to the biosystems engineering	(Z00) Environmental Engineering, Specialised Academic Studies
17.	SZSP16	Engineering of renewable enery sources in agriculture	(Z00) Environmental Engineering, Specialised Academic Studies
18.	DOM24	Procedure and Machines for Sustainable Agriculture	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	ZSP14	Contemporary Approaches to Sustainable Engineering Biosystems	(Z00) Environmental Engineering, Doctoral Academic Studies
20.	ZSP16	Engineering of Renewable Energy in Agriculture	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>			
Representative references (minimum 5, not more than 10)				
1.	Veselinov, B.: Prilog razvoju sistema za presovanje vlaknastih biomaterijala kod presa za valjkaste bale sa promenljivom zapreminom komore za presovanje, Fakultet tehničkih nauka, Novi sad, Magistarski rad, 1989, 98 strana			
2.	Veselinov, B.: Uticaj raznih postupaka mehaničkog usitnjavanja suve pitome nane na kvalitet dobijene biljne sirovine, Fakultet tehničkih nauka, Novi Sad, Doktorska disertacija, 2003, 110 strana			
3.	Martinov, M., Veselinov, B., Bojić, S. 2007. Maize Cobs Processor – Preparations for its use as a Fuel. 11-th International Research/Expert Conference »Trends in the Development of Machinery and Associated Technology« TMT 2007, Hammamet, Tunisia, 05-09 Septembar, 1167-1170			
4.	Martinov, M., Adamović, D., Veselinov, B., Mujić, I., Bojić, S. 2008. Fazno sušenje lekovitog bilja u šaržnoj sušari. Savremena poljoprivredna tehnika, 34(1-2), 1-12. (ISSN 0350-2953)			
5.	Martinov, M., Veselinov, B., Bojić, S. 2008. Drobljenje oklasaka kukuruza – priprema za korišćenje kao gorivo. Savremena poljoprivredna tehnika, 34(1-2), 26-31			
6.	Veselinov, B., Adamović, D., Martinov, M. 2008. Istraživanje mogućnosti mehanizovanog branja cvasti nevena, Bilten za hmelj, sirak i lekovito bilje, Institut za ratarstvo i povrtarstvo Novi Sad, 40(81), 22-33			
7.	Martinov, M, Veselinov, B. 2009. Stanje u oblasti poljoprivrednog inženjerstva – Akcenti Konferencije VDI-MEG LAND-TECHNIK 2008. Savremena poljoprivredna tehnika, 35(3), 157-168. (ISSN 0350-2953)			
8.	Martinov, M., Adamović, D., Veselinov, B., Matavuly, M., Bojic, S. and I. Mujic. 2008. Practice oriented investigation of chamomile and peppermint drying in batch dryer. 36. International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering, Opatija, 11-15 February 2008, Book of Proc, 479-490. ISSN1533-2651			
9.	Martinov M, Bojic S, Golub M, Veselinov B. 2012. Practice oriented investigation of hull-less oil pumpkin seeds, Cucurbita pepo L., drying in batch dryers. 7th Conference of Medicinal and Aromatic Plants of Southeastern European Countries. Subotica 27th-31st of Mai 2012, CD of Proc. 241-247. ISBN: 978-86-83-141-16-6			
10.	Martinov M, Golub M, Djordje Dj, Bojic S, Veselinov B. 2012. Total and available yield of soybean residues. 4th International Scientific and Expert Conference TEAM 2012 Technique, Education, Agriculture & Management. Slavonski Brod, 17th to 19th October 2012, CD of proc. 307-310. ISSN 1847-9065			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	5	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Vladić M. Jovan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 12.11.1975	
Scientific or art field:		Machine Constructions, Transport Systems and Logistics	
Academic carier	Year	Institution	Field
Academic title election:	1999	Faculty of Technical Sciences - Novi Sad	Machine Constructions, Transport Systems and Logistics
PhD thesis	1989	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1982	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1974	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.	M207A	Computer-Aided Design	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	M2402	Continuous and Automated Transport	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
3.	M2610	Graphic Communications and CAD	(H00) Mechatronics, Undergraduate Academic Studies
4.	M312A	Fundamentals of Transportation Machines	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
5.	M313A	CAD/CAE Course	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
6.	S0218	Reload Logistics	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
7.	S1218	Reload Logistics	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	ZR407A	Occupational safety in internal transport, reloading and warehouse	(Z01) Safety at Work, Undergraduate Academic Studies
9.	H2504	Transportation and Manipulation Systems	(H00) Mechatronics, Master Academic Studies
10.	M2503	Transport Systems and Devices	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	M2509A	Automated Machine Designing	(M22) Mechanization and Construction Engineering, Master Academic Studies
12.	M2532	Packaging Machines	(M22) Mechanization and Construction Engineering, Master Academic Studies
13.	LIM12	Transport Technique and Material Flow	(LIM) Logistic Engineering and Management, Master Academic Studies
14.	LIM13	Packaging Techniques and Packaging	(LIM) Logistic Engineering and Management, Master Academic Studies
15.	LIM24	Urban Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
16.	H797	Mechatronics in mechanization - advanced topics	(H00) Mechatronics, Master Academic Studies
17.	DM213	Contemporary Methods of Designing and Machine Constructing	(M00) Mechanical Engineering, Doctoral Academic Studies
18.	DM331	Selected Chapters in Transport and Construction Machines	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	DM410	Selected Chapters in Food Processing Machines and Equipment	(M00) Mechanical Engineering, Doctoral Academic Studies
20.	DOM20	Engineering Analysis Methods	(M00) Mechanical Engineering, Doctoral Academic Studies
21.	DOM23	Product Development	(M00) Mechanical Engineering, Doctoral Academic Studies
22.	DOM25	Contemporary Procedures for Mobile Machine Designing	(M00) Mechanical Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vladić J., Đokić R., Kljajin M., Karakašić M.: Modelling and simulations of elevator dynamic behaviour, Tehnički vjesnik/Technical Gazette, 2011, Vol. 18, No 3, pp. 423-434, ISSN 1330-3651, UDK: 62(05)=163.42=111		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>		
Representative references (minimum 5, not more than 10)			
2.	Vladić J., Malešev P., Šostakov R., Brkljač N.: Dynamic Analysis of the Load Lifting Mechanisms, Strojnski vestnik = Journal of Mechanical Engineering, 2008, No 10, pp. 655-661, ISSN 0039-2480		
3.	Vladić J., Đokić R., Živanić D.: Simulations and dynamic models of electrical elevators, 7. Simpozijum o konstruisanju, oblikovanju i dizajnu – KOD, Balatonfured: Faculty of Technical Sciences, 24-26 Maj, 2012, pp. 121-126, ISBN 978-86-7892-399-9		
4.	Đokić R., Vladić J., Živanić D.: Design and bases for assembling prefabricated industrial objects, 6. Simpozijum o konstruisanju, oblikovanju i dizajnu – KOD, Palić: Fakultet tehničkih nauka, 29-30 Septembar, 2010, pp. 189-192, ISBN 978-86-7892-278-7		
5.	Vladić J., Đokić R.: Modeling and dynamic analysis as basis for elevators design, 6. Simpozijum o konstruisanju, oblikovanju i dizajnu – KOD, Palić: Fakultet tehničkih nauka, 29-30 Septembar, 2010, pp. 193-198, ISBN 978-86-7892-278-7		
6.	Vladić J., Živanić D., Đokić R., Gajić A.: Analysis and Choice of Prefabricated Industrial Halls Elements , 19. International conference on MATERIAL HANDLING, CONSTRUCTIONS AND LOGISTICS, Beograd: Mašinski fakultet Beograd, 15-16 Oktobar, 2009, pp. 257-260, ISBN 978-86-7083-672-3		
7.	Vladić J., Gajić A., Đokić R., Živanić D.: Choice of Optimal Transportation Mechanisation at Open Pit , 6. International Conference "Heavy Machinery" - HM, Kraljevo: Faculty of mechanical engineering Kraljevo, 24-29 Jun, 2008, pp. 63-68, ISBN 978-86-82631-45-3		
8.	Vladić J., Živanić D., Đokić R., Gajić A.: Analysis of Material Flows and Logistics Approach in Design of Material Handling Systems, 6. International Conference "Heavy Machinery" - HM, Kraljevo: Faculty of mechanical engineering Kraljevo, 24-29 Jun, 2008, pp. 69-72, ISBN 978-86-82631-45-3		
9.	Vladić J., Đokić R.: Dynamic behaviour of elevators and tribological processes in their driving systems, 2. Power Transmissions, Novi Sad: FTN Novi Sad, 25-26 April, 2006, pp. 537-542		
10.	Vladić, J.: Računske i eksperimentalne metode za statičku i dinamičku analizu žičara, monografija, 1991., FTN Novi Sad		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	International : 0

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

Science, arts and professional qualifications



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

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation UNDERGRADUATE ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Žigic 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 career	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 references (minimum 5, not more than 10)			
1.	N. M. Grahovac, M. M. Zigic: Modelling of the hamstring muscle group by use of fractional derivatives, Computers and Mathematics with applications, Vol. 59, Issue 5 (2010), 1695-1700.		

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

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

Science, arts and professional qualifications

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation</h2> <div style="display: flex; justify-content: space-between;"> UNDERGRADUATE ACADEMIC STUDIES Mechatronics </div>				
Representative references (minimum 5, not more than 10)					
4.	M.Damnjanović, G. Stojanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. McLoughlin, "Analysis, design and characterization of ferrite EMI suppressors," IEEE Transactions on Magnetics (impact factor: 0.837), vol. 42, no. 2, pp. 270-277, 2006.				
5.	G. Stojanović, Lj. Živanov, "Novel efficient method for inductance calculation of inductors with optimized layout," International Journal of RF and Microwave Computer-Aided Engineering, vol. 16, no. 5, pp. 463-469, September 2006				
6.	V. Desnica, Lj. Živanov, O. Aleksić, "The modeling and design of symmetrical thick film EMI/EMC cells", Studies in Applied Electromagnetics and Mechanics: Electromagnetic Fields in Electrical Engineering, vol. 22, pp. 395-400, IOS Press, Amsterdam, 2002				
7.	V. Desnica, Lj. Živanov, M. Nimrihter, O. Aleksić, M. Luković: "A Comparative Characteristics of Thick Film Integrated LC Filters", IEEE Transactions on Instrumentation and Measurement - IMTC Special Issue, Vol. 51, No. 4, pp. 570-576,				
8.	V. Desnica, Lj. Živanov, O. Aleksić, S. Jenei: "Modeling and optimization of thick film solenoid-bar type inductors and transformers", COMPEL (Computation and Mathematics in Electrical and Electronic Engineering), Vol. 19, No. 2, pp. 615-621, 2000				
9.	P.M.Nikolić, M.B.Pavlović, Z.Maričić, S.Djurić, Lj.Živanov, D.Samaras, G.A.Gledhill, "Low temperature far-infrared complete reflectivity spectra of single crystal Ba hexaferrite", Infrared Physics, vol. 33, No.5, Pergamon Press, G.B., pp.401-408, 1992				
10.	P.M.Nikolić, Lj.D.Živanov, O.S.Aleksić, D.Samaras, G.Gledhil, J.Collins: "Far infrared optical properties of single crystal Ba- and Sr- hexaferrite", Infrared Physics, Vol.30,				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		48			
Total of SCI(SSCI) list papers :		12			
Current projects :		Domestic :	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">1</td> <td style="width: 50%;">International : 3</td> </tr> </table>	1	International : 3
1	International : 3				



Study Programme Accreditation
UNDERGRADUATE ACADEMIC STUDIES Mechatronics

Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students` number are to be provided. Lectures at this study programme is realized in two shifts, so the required space according to rules of accreditation.

There is also an adequate equipment of all courses with the appropriate textbook literature, devices and supplementary equipment available on time and in a sufficient number for normal performance of the teaching process. Likewise, the Faculty of Technical Sciences has its own library, with well equipped and for this study programme adequate library funds. The adequate information technology is also available for performing the study programme.



Study Programme Accreditation

UNDERGRADUATE ACADEMIC STUDIES

Mechatronics

Standard 11. Quality Control

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

The quality control process comprises the continual monitoring of the quality of lecturing and the quality of resources necessary for the successful efficiency of undergraduate studies. Quality control bodies are the following: Board for Quality and Self-Evaluation, Committee for Quality and Committee for Undergraduate Studies Quality with undergraduate studies study programme executives-in-charge.

The study programme quality is evaluated on the basis of lecturers' competence, students' participation and involvement in scientific and research projects, resource wealth (contemporariness of equipment, contemporariness of available literature in libraries and bases), and the number of scientific publications realized during studies.

During the quality control of a study programme, the active role of students and their evaluation of the programme quality are also provided.

Quality monitoring is performed by a Committee consisting of Heads of Departments involved in study programme realization and one student from each academic year.



Study Programme Accreditation
UNDERGRADUATE ACADEMIC STUDIES Mechatronics

Standard 12. Distance Education

Distance learning is not provided for.