

STUDY PROGRAMME ACCREDITATION MATERIAL:

# MECHATRONICS

DOCTORAL ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

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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	Doctoral Academic Studies
Study scope, expressed in ECTS	180-181
Academic degree, abbreviation	Doctor of Science - Mechatronics, Ph.D.Mechatron.
Study length	3
Programme implementation starting year	2005
Future course implementation starting year (for new programme)	
Number of students attending this programme	15
Planned number of students to be enrolled in this programme	30
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	<a href="http://www.ftn.uns.ac.rs">http://www.ftn.uns.ac.rs</a>



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 00. Higher Education Institution Competence for the Implementation of PhD Studies**

The doctoral study programme at the department for Mechatronics represents the continuation of graduation study programme – master studies of Mechatronics at the Faculty of Technical Sciences, University of Novi Sad. It was jointly created by four departments: Department for Industrial Engineering and Management, Department for Power, Electronics and Telecommunications, Department for Computing and Automation and Department for Mechanization and Construction Mechanical Engineering.

This study programme should enable students to become capable for individual scientific and research work within the selected field of their Doctoral thesis. Besides additional concretisation and integration of knowledge, stronger understanding of main physical principles and acquisition of capabilities necessary for the realization of contemporary technical systems, students should also develop their abilities for individual looking up and utilizing foreign literature, innovative thinking unburdened by previous realizations, and propositions of solutions that will represent the expansion of the boundaries of current scientific knowledge and professional engineering practice.

The Faculty is fully prepared in terms of academic staff, classroom capacity and other facilities for administering doctoral studies in all the fields studied at the Faculty based on indicators related to scientific and research work. The Faculty has a short-term and long-term plan and is accredited as a scientific and research institution, as required by law.

The ability of the Faculty to administer doctoral studies can be indicated by the following criteria:

- the number of Ph.D. and Master theses defended at the higher education institution which are in the area for which the study programme is accredited, in terms of the ratio of the doctoral and master theses and the number of students who have graduated from the programme and the number of professors.
- the ratio between the number of professors and the number of professors involved in scientific and research projects.
- the ratio between publications in the Ministry of Science acclaimed international journals in the last 10 years and the number of professors.
- cooperation with institutions in the country and abroad
- the Faculty employs a number of tenured teachers who have acted as doctoral thesis supervisors.

The capability of the Faculty to administer doctoral studies is obvious from the references which are enclosed with the accreditation material.





**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 01. Programme Structure**

The name of the Doctoral Study Programme is Mechatronics. The acquired academic degree is a Doctor of Science – Mechatronics (Ph.D.). The outcome of the study process is knowledge which enable students to become capable for independent scientific and research work.

Doctoral studies in Mechanics last for three years and they are worth at least 180 ECTS. Out of it, 90 ECTS is obtained through examination at the subjects, 30 ECTS is obtained by laying theoretical basis for doctoral dissertation, and 60 ECTS is acquired by elaborating and defending the doctoral dissertation. Doctoral studies cannot last longer than 10 years.

Research study on theoretical grounds is a doctoral dissertation qualifying exam for the preparation of a doctoral dissertation in which students demonstrate that they mastered necessary theoretical knowledge in the scientific areas of interest. Theoretical foundations are laid as examination (written and/or oral) by subject (issues) from at least three teaching subjects from the study programme.

Doctoral studies are organized through lectures, research study, research work, construction and defense of the doctoral dissertation.

Student's research interest is profiled by selecting teaching subjects which will be studied and taken; and thus, contribute in-depth knowledge and understanding of areas (themes) of his doctoral dissertation. Optional subjects are selected from the group of proposed subjects of study programme, but the students have the opportunity to choose a number of subjects, with the consent of the mentor (co-mentor), from a set of subjects for Doctoral Studies at Faculty of Technical Sciences, University of Novi Sad, or any other university in the country or abroad. At the same time the conditions prescribed for teaching attendance in selected cases have to be fulfilled.

Teaching activity for the subjects (compulsory or optional) is group or individual (mentoring) activity. Group classes are held if the subject was chosen by five or more students or if this type of lecturing is necessary to be organized due to the nature (character) of the subject. The decision on the type of instruction and optional subjects that will be taught is made by the Head of Doctoral Studies with the consent of the Head of the Doctoral Studies at the Faculty.



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DOCTORAL ACADEMIC STUDIES

Mechatronics



### Standard 02. Programme Objectives

The purpose of this Study Programme is education of students so that they are capable for high quality independent scientific and research work in accordance with the needs of the society. On the other hand through education of experts capable of critical evaluation of research work of others and independent leading original and scientifically relevant research development of new technologies and procedures for general development of the entire society is enabled. Apart from that, the purpose of this doctoral study programme is contribution to the development of our science.

Study Programme of Doctoral Studies in Mechanical Engineering is designed to provide the acquisition of skills that are socially justified and useful. Faculty of Technical Sciences defined tasks and goals for educating highly competent personnel in the field of technology and the purpose of the Study Programme of Mechatronics is completely in accordance with the objectives and goals of the Faculty of Technical Sciences.



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 03. Programme Goals**

The objective of the study programme is to achieve student's scientific competencies and academic skills in the field of Mechatronics. This also includes the development of creative abilities in considering problems and the ability of critical thinking, the development of teamwork skills and the mastering of specific practical skills necessary to perform the profession.

The objective of the study programme is to educate an expert who has sufficient extended knowledge consistent with contemporary directions of development of science in the world.

One of the specific objectives which is in accordance with educational aims of experts at the Faculty of Technical Sciences is to develop students' awareness of the need for a personal contribution to the development of a society in general and the environmental protection. The objective of the study programme is also the education of experts in the field of teamwork, and the development of technical capacity for communication and presentation of their original results to scientific public.



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES  
Mechatronics

**Standard 04. Graduates' Competencies**

PhD graduates of the academic study programme in Mechatronics are competent to conduct research and solve problems in real life practice activities. Competencies include, above all, the development of critical thinking skills, problem analysis capabilities, the synthesis solution, predicting the behaviour of selected solutions with a clear representation of what is good and what is bad by the selected solution.

Qualifications that indicate the completion of doctoral academic studies are gained by students:

- who have demonstrated systematic knowledge and understanding in the field of civil engineering that complements the knowledge gained at graduate academic studies, being the basis for developing critical thinking and application of knowledge;
- who have mastered the skills and methods of research in the field of mechatronics;
- who have shown the ability of making concepts, design and application
- who have shown ability to adapt the research process with the necessary level of academic integrity;
- who have performed original research and work, extending the boundaries of knowledge, which is verified by publishing papers in the appropriate scientific journal and by the references in national and international levels;
- who are capable of critical analysis, evaluation and synthesis of new and complex ideas;
- who are capable of knowledge and ideas transfer to their colleagues, wider academic community and society in general
- who are capable of promoting technological, social and cultural progress in the academic and professional environment

These competences are realized through monitoring study processes and individual results of students.

After graduation, PhD programme allows students to have the knowledge, skills, developed abilities and competencies to :

- independently solve practical and theoretical problems and organize and realize developing activities and research;
- be involved in international scientific projects
- be able to implement the development of new technologies and procedures and to understand and use modern knowledge;
- think critically, work creatively and independently;
- respect the code of ethics and principles of good scientific practice;
- be capable to present scientific research results at scientific conferences and publish in scientific journals, verifying them through patents and new technical solutions;
- contribute to the development of scientific disciplines in science generally.

After this study programme completion, the student obtains the following subject-specific competences:

- thorough knowledge and understanding of the disciplines that are the subject of their involvement;
- ability to solve problems using scientific methods and procedures;
- linking basic knowledge in various fields and their application;
- ability of modern developments in the field of profession;
- necessary skills and ability in applying knowledge in the field of mechanical engineering;
- mastering information and communication technologies.

Students will be enabled to design, organize and manage the construction of specific and complex structures. During their education, students acquire the knowledge to independently perform experiments, process statistic data, as well as formulate and make adequate conclusions.

Students who obtain their Doctoral degree in Mechanics acquire knowledge on how to economically utilize natural resources of the Republic of Serbia in accordance with the sustainable development principles.

In particular, attention is paid to the development of skills in team work and development of professional ethics.

Acquired competence are verified by scientific papers. Before obtaining the Doctoral Diploma a candidate must publish (or to prove that the papers are accepted for publication) at least two papers of R54-level (according to the categorization of the Ministry of Science) and at least one paper in the SCI listed journal.



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Standard 05. Curriculum

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Table 5.2 Course specification

Course:		Scientific Research Method			
Course id:	DZ001				
Number of ECTS:	5				
Teachers:		Atanacković M. Teodor, Folić J. Radomir			
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	3	0	
Precondition courses		None			
1. Educational goal:					
To enable students for successful writing of scientific papers and doctoral dissertations.					
2. Educational outcomes (acquired knowledge):					
<div>- Ability of understanding various scientific methods which was used in scientific literature</div> <div>- Ability of successful managing in professional literature</div> <div>- Ability of successful writing of scientific paper in area of interests</div> <div>- Ability of successful creating and ending of doctoral dissertation</div>					
3. Course content/structure:					
Definition of science. Development of science through history.					
Scientific methodology.					
General and special scientific methods.					
Structure of a scientific paper. Types of scientific results.					
Writing and publishing scientific papers.					
Writing the doctoral dissertation.					
Evaluating scientific results.					
4. Teaching methods:					
Lectures. Consultations with students. Seminar paper.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	30.00	Oral part of the exam	Yes 70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Karl Popper	Logika naučnog otkrića		Nolit, Beograd	1973



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Table 5.2 Course specification

Course:		Selected Chapters in Telecommunications and Signal Processing						
Course id: DAU001								
Number of ECTS: 13								
Teachers:		Šenk I. Vojin, Temerinac R. Miodrag						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:		
5		0	0		4	0		
Precondition courses None								
1. Educational goal:								
To grasp the principles on which modern communication systems are built.								
2. Educational outcomes (acquired knowledge):								
Student will have gained knowledge of modern communication systems and the ability of their analysis and synthesis.								
3. Course content/structure:								
Modulations. Information., compression, protection of information from problems in transmission. Contemporary communication systems. Part of the course is in the form of independent research and study in the area of telecommunications and signal processing. Research and study work is based on primary scientific sources, organization and conduction of research experiments.								
4. Teaching methods:								
Lectures. Consultations. Research and study work								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Homework			Yes	10.00	Oral part of the exam		Yes	50.00
Project defence			Yes	40.00				
Literature								
Ord.	Author		Title			Publisher		Year
1,	Thomas M. Cover, Joy A. Thomas		Elements of Information Theory			Wiley-Interscience		1991



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Table 5.2 Course specification

Course:		Selected Chapters in Computing				
Course id:	DAU002					
Number of ECTS:	14					
Teachers:		Konjović D. Zora, Popović V. Miroslav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
5		0	0		4	0
Precondition courses		None				
1. Educational goal:						
Deep understanding of the selected areas related to computer software.						
2. Educational outcomes (acquired knowledge):						
The students will have been able to critically analyze the existing solutions and synthesize original solutions in the selected areas related to computer software.						
3. Course content/structure:						
Theoretical foundations of the selected areas related to computing. Technological foundations of the selected chapters in computing. Part of the course is in the form of independent research and study in the area of computing. Research and study work is based on primary scientific sources, organization and conduction of research experiments, numerical simulations.						
4. Teaching methods:						
Forms of teaching include: lectures, practical work on computers, developing projects, as well as consultations. During the lecture classes the content of the course is presented using the necessary didactic materials and stimulating the active participation through presentation of the assigned materials. The practical component is covered through computer work. The student is obliged to develop an independent project.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	70.00	Oral part of the exam	Yes 30.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Nije primenljivo		Odabrani naučni radovi uz predmetne oblasti		različiti izdavači	2007





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Table 5.2 Course specification

Course:		Selected Chapters in Mechanics				
Course id:	DAU003					
Number of ECTS:	13					
Teachers:		Atanacković M. Teodor, Novaković N. Branislava				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
5	0	0		4		0
Precondition courses						
None						
1. Educational goal:						
To develop capabilities for independent literature study and active research work in the fields of classic and mechanics of derivatives of real series. Special attention is given to the optimization problems in elasticity (uni and bimodal) and problems of controlling systems described by differential equations with real series derivatives.						
2. Educational outcomes (acquired knowledge):						
Students will have been able to actively follow the scientific literature and do research work in the field of mechanics described by partial derivative.						
3. Course content/structure:						
Differential and integral variational principles of mechanics. Derivatives of real series and their application in mechanics. Hamilton's principle in the case of partial derivatives. Part of the course is in the form of independent research and study in the area of mechanics.. Research and study work is based on primary scientific sources, numerical simulations and producing a paper in the field of applied mechanics.						
4. Teaching methods:						
Lectures. Seminar papers. Consultations. Research and study work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	30.00	Oral part of the exam		Yes 70.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	B. D. Vujanovic, T. M. Atanackovic	An intorduction to Modern Variational Techniques in Mechanics and Engineering			Birkhauser, Boston	2004
2,	T. M. Atanackovic	Stabilty Theory of Elastic Rods			World Scientific	1997



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Table 5.2 Course specification

Course:		Selected Chapters in Mathematics 2				
Course id: DAU004						
Number of ECTS: 13						
Teachers:		Pilipović R. Stevan, Stojaković M. Mila				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
5		0	0		4	0
Precondition courses None						
1. Educational goal:						
To develop the ability of abstract thinking and acquire knowledge of mathematics.						
2. Educational outcomes (acquired knowledge):						
Student will have been competent enough to develop and solve mathematical models in further professional education.						
3. Course content/structure:						
Depending on student's choice and in accordance with their prior knowledge of mathematics fundamentals, attention will be given to the selected chapters in probability, statistics and stochastic processes. Part of the course is in the form of independent research and study in the area of mathematics. Research and study work is based on primary scientific sources, organization and conducting of experiments, numerical simulations, and possible paper in the field of mathematics.						
4. Teaching methods:						
Lectures. Consultations. Lectures are organized so that the presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the material. In addition to lectures there are regular consultations. Through research and study work the student will, on the bases of scientific journals and other relevant literature that has been studied independently, develop further understanding of the material covered in lectures. Working with the course teacher the student develops the ability to independently work on a scientific paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Term paper			Yes	50.00	Oral part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Aleksander Mood,...		Introduction to the theory of statistics		McGraw Hill	2005
2,	Athanasios Papoulis		Probability, random variables and random processes		McGraw Hill	2002
3,	Sheldon Ross		Probability models		Academic Press	1996
4,	J.P.Marques de Sa		Applied statistics using SPSS,STATISTICA and MATLAB		Springer	2005


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Table 5.2 Course specification

Course:		Selected Chapters in Electromotive Drives						
Course id:	DE109							
Number of ECTS:	13							
Teacher:		Marčetić P. Darko						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
5		0		0		4	0	
Precondition courses							None	
1. Educational goal:								
Introduction to contemporary electromotive drives development trends. Introduce students to basic modelling tools and operation simulation of the controlling structure within a plant.								
2. Educational outcomes (acquired knowledge):								
In this course the candidate is introduced to electromotive drives development trends. Huge amount of references is covered in the selected field, and one drive within the department is used for acquiring selected experimental results. The candidate is trained for solving current problems in the field of electromotive drives.								
3. Course content/structure:								
Introduction. Classification of electromotive drives. 1) Electromotive drives with asynchronous engine (AE). 1?) Matlab-Simulink model of vector controlled drive with AE and position indicator 1b) Synthesis of digital power, speed and position regulator. 1c) Analysis of drive sensitivity to parameters change. 1d) Matlab-Simulink model of vector controlled drive with AE and without position indicator (MRAS and SMO estimators of speed and position), 1?) vector controlled drive with AE and with and without position indicator and on-line parameter estimation realized in programme language C on TI DSP 320F2812. 2) Electromotive drives with synchronous engine (SE). 2?) Matlab-Simulink model of vector controlled drive with SE and position indicator 2b) Matlab-Simulink model of vector controlled drive with SE and without position indicator (SMO and one of the methods based on impression of test signal), 2c) Analysis of sensitivity of SE shaft- sensorless drive to parameters change. 2d) vector controlled drive with SE and with and without position indicator ? on-line parameter estimation realized in programme language C on TI DSP 320F2812. Partially classes are realized through independent study and research work in the field of electromotive drives. Study and research work includes acrive following of primary scientific sources, organization and conducting experiments and statistical data processing, numeric simulations, elaboration of a paper in the filed of doctoral disertation.								
4. Teaching methods:								
Lectures. Mentor work. Study and research work.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Term paper			Yes	50.00	Oral part of the exam		Yes	50.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	Slobodan N. Vukosavić		Digitalno upravljanje električnim pogonima			Akademska misao		2003
2,	Darko Marčetić		Mikroprocesorsko upravljanje energetskim pretvaračima			FTN Novi Sad izdavaštvo		2012





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Table 5.2 Course specification

Course:		Algorithms for Digital Signal Processing			
Course id:	DE111				
Number of ECTS:	13				
Teachers:	Delić D. Vlado, Šećerov E. Emil				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
5	0	0	4	0	
Precondition courses		None			
1. Educational goal:					
As a main course for the doctoral studies students whose major choice is digital signal processing, this course has an educational objective to provide students with all the necessary knowledge on digital signal processing and its application. It is necessary to consolidate the knowledge from graduate studies regarding digital signals in both time and frequency domains, digital filters and methods for their design. The objective of the course is to increase and deepen students' knowledge by introducing them to the advanced algorithms and applications for digital signal processing. They should get acquainted with the methods for designing optimal filters and adaptive systems which are increasingly utilized in practice.					
2. Educational outcomes (acquired knowledge):					
Main algorithms for signal processing in discrete time and the most important transformations of discrete signals, including the algorithms for the Fast Fourier transformation. Digital filters are introduced via concrete examples, and only then theory is learned and methods for their design are introduced. Based on the acquired knowledge, students will be able to competently analyse the set problem, select the appropriate digital filter class and optimal design method, design with the usage of adequate software tools and implement a digital filter on the general purpose processor or DSP platform. Students will learn to select optimal structures for the realization and to design even the complex systems for digital signal processing. They will be introduced to the methods for signal spectrum estimation, as well as adaptive systems. In practical work, they will gain experience with the Matlab DSP Toolbox and Simulink.					
3. Course content/structure:					
•Practical aspects of A/D and D/A conversion and selection theorems. •Transformations of discrete signals and links between them (ZT, FTD, DFT). •Fast FT and fast convolution. •Examples of digital FIR and IIR filters and their characteristics. •Main methods for digital filter design (with the introduction to Matlab DSP Toolbox). •Design methods and the selection of structure for the realization of optimal digital FIR and IIR filters. •Multirate systems. •Adaptive systems. •Frequency spectrum estimation (with the introduction to Matlab Simulink). •Part of the course is conducted through individual research and study work in the field of algorithms for digital signal processing. 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:					
Teaching is the combination of lectures and tutorials. Individual students' work is supported by the web portal of the Chair for Telecommunications and Signal Processing. There, they can find PowerPoint presentations from lectures in .pdf format, as well as certain on-line exercises intended for individual work and homework elaboration. During the tutorials, students are led through the selected chapters in the Tasks for Digital Signal Processing with the objective of acquiring additional knowledge to the one from their graduate studies. At the Laboratory for Digital Signal Processing at the Faculty, students obtain practical experience in the work with software tools for digital signal processing and with the development systems for DSP where they perform the implementation of the DSP algorithm. Some of the obtained knowledge is tested during the semester in the form of elaborating short design tasks and homework. During the final examination, the entire knowledge from the course is e					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Homework		Yes	5.00	Written part of the exam - tasks and theory	Yes 50.00
Homework		Yes	5.00		
Homework		Yes	5.00		
Homework		Yes	5.00		
Project		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	J. Proakis and D. Manolakis	"Digital Signal Processing – Principles, Algorithms, Applications		Prentice Hall	1996
2,	E. Ifeachor and B. Jervis	Digital Signal Processing – A Practical Approach		Prentice Hall	1993
3,	S. Mitra	Digital Signal Processing, A Computer-Based Approach		McGraw-Hill	2002
4,	Miodrag Popović	"Digitalna obrada signala"		Nauka, Beograd	1994
5,	Milan Sečujski, Vlado Delić, Nikša Jakovljević, Igor Radić	"Zbirka zadataka iz digitalne obrade signala"		FTN, Novi Sad	2007

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Literature					
Ord.	Author	Title	Publisher		Year
6,	Vlado Delić i dr.	"PPT prezentacije sa predavanja i on-line vežbe preko Web portala Katedre za telekomunikacije i obradu signala"			2007


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Table 5.2 Course specification

Course:		Engineering Experimental Methods				
Course id:	DM302					
Number of ECTS:	13					
Teachers:	Grković R. Vojin, Gvozdenac D. Dušan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
5	0	0	4	0		
Precondition courses						
None						
1. Educational goal:						
It is occasionally demanded for theory to offer solution for solution of various practical engineering problems in its full complexity. Contemporary technological plants are very complex unity of tools and devices in which various processes are conducted. All elements in plants should be synchronised in order to justify existence of the plant and create final and effective product. Nowadays experimental methods and experimental techniques are highly developed and can equally be used with theoretical methods in studying engineering problems. The subject aim is for the student to be introduced to fundamental experimental concept, experiment planning, experimental data analysis, contemporary complex engineering measurements, data acquisition and their processing as well as writing and presentation of experiment results.						
2. Educational outcomes (acquired knowledge):						
Mastering contemporary engineering experimental technique in order to understand and master physical phenomena of contemporary technological plants.						
3. Course content/structure:						
Theory and experiment in engineering. Applied statistics. Measurement system designing and its application. Experiment plan. Dimensional analysis. Similarity and model theory. Experiment conducting. Analysis and interpretation of experimental data. Technical communication.						
4. Teaching methods:						
Lectures, independent study and research work, consultations. Lectures are held in combined way. Theoretical part is presented in lectures and it is followed by appropriate exemplated contributing easier understanding of the subject content. Students expand knowledge through study and research work, studying of scientific journals and other literature. In cooperation with professor, student is enabled of independently write scientific papers.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Term paper		Yes	50.00	Oral part of the exam	Yes	50.00
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Holman, J.P.	Experimental methods for Engineers		McGraw-Hill International Editions	1994	
2,	Doebelin, E.O.	Engineering Experimentation (Planning, Execution, Reporting)		McGraw Hill International Editions	1995	
3,	Pantelić, Ilija	Uvod u teoriju inženjerskog eksperimenta		Radnički univerzitet "Radivoj Čirpanov"	1976	
4,	Profos, P.	Industriellen Messtechnik, , 1974. (Russian translation is available, too).		Vulkan Verlag, Essen	1974	
5,	Doebelin, E. O.	Measurement Systems - Application and Design (third edition)		McGraw Hill	1983	
6,	McGee, T. D.	Principles and Methods of Temperature Measurement		John Wiley & Sons	1988	



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	<h2 style="margin: 0;">Study Programme Accreditation - PhD Studies</h2> <p style="margin: 0;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	

Table 5.2 Course specification

Course:		Selected Topics in Computer Programming				
Course id: DRNI01						
Number of ECTS: 13						
Teachers:		Malbaški T. Dušan, Kupusinac D. Aleksandar, Mernik R. Marjan, Popov B. Srđan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
5		0	0	4		0
Precondition courses None						
1. Educational goal:						
Acquisition of deep knowledge of contemporary theories of programming and related technologies.						
2. Educational outcomes (acquired knowledge):						
Understanding modern theory of programming and training for the application of acquired knowledge in the development of software systems.						
3. Course content/structure:						
Modern theory of programming. Selected programming paradigm. Technology and development tools to support modern computer programming paradigms.						
Part of the teaching on the subject is done through independent research and study work in the field of computer programming.						
Research and study work includes active monitoring of primary scientific sources, possibly writing a paper on computer programming.						
4. Teaching methods:						
Forms of teaching activities are lectures, practical work on the computer, construction projects, and consultations. Using necessary teaching resources during the lectures, subject matter is presented to students by stimulating their active participation as they are required to explain the contents of which they are assigned. The practical part is mastered by students` work on computer. Students are obliged to do the project alone.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project defence		Yes	60.00	Oral part of the exam		Yes 40.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Različiti autori	Monografske publikacije i naučni radovi iz teorije programiranja				2007



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	Mechatronics	

Table 5.2 Course specification

Course:		Theory of impact				
Course id: DTM02						
Number of ECTS: 14						
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:
5		0	0		4	0
Precondition courses		None				
1. Educational goal:						
Professor's intention is through this course to: - expand terms of classic analytical mechanics to the set of general functions (distributions) as well as to involve differential equations of mechanic systems movement with interrupted right sides (differential inclusions) what is directly applied in problems including collision and dry friction, - understand how mechanic methods can be applied in bio system problem analysis which are more complex and principally less defined than technical problems mainly consisting of simple geometric forms, in order to analyse problems that include vehicle collision and participants injuries.						
2. Educational outcomes (acquired knowledge):						
Upon completion of this course student acquires knowledge to: - utilize acquired knowledge in engineering disciplines which as tool use non smooth mechanics, and deal with collision analysis, - recognize through models various movements of real systems, effects of various actions (forces and force coupling, regular and impact), analyse friction and energy balance, as well as to simulate forecasting of various models by using computers, - apply acquired knowledge in analysing movement and collision of actual mechanical systems including biological, i.e., to identify, formulate (idealise practical problems by using appropriate mathematical model) and solve problem in the field covered by following content, with special insight to restrains resulting from entopic inequality,- communicate and work with other engineers on the team.						
3. Course content/structure:						
Elements of collision theory. Derivative in the distribution sense. Distribution model of collision. General Euler-Lagrange equations of second type. Theorem on kinetic energy application on collision. Collision theory of Hertz type – regularization. Zener model. Constrains deriving from Clausius – Duhem inequality. Fremont approach. Herz-Signorini-Moreau law of unilateral contact. Linear complementarity problems. Generated derivative and differential. Different models of force of dry friction. Differential inclusions. Theorem by Phillip. Mechanical systems with forces which are modelled by multi-value functions. Non smooth potentials. Method of wider Lagrange. Application of Gaussian principle. Methods of numerical integration. Moreau algorithm. Human body structure. Mechanical features of biomaterials. Inner forces in human body. Dynamic modelling of human joints with special emphasis on knee and connection neck head. Models for collision analysis with special emphasis on biodynamic response of human body in frontal collision as head response to crash. Air bag models.						
4. Teaching methods:						
Lectures. Mentor work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	50.00	Oral part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Ch. Glocker		Set valued force laws, Dynamics of non-smooth systems		Springer, Berlin	2001
2,	R. Leine and H. Nijimeijer		Dynamics and bifurcations of nonsmooth mechanical systems		Springer, Berlin	2004
3,	B. Brogliato		Non-smooth mechanics, Springer, London		Springer, London	1999
4,	N. Ayache (ed.)		Computational models for the human body		Elsevier, Amsterdam	2004







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Table 5.2 Course specification

Course:		Selected Chapters in Mathematics			
Course id:	DZ01M				
Number of ECTS:	12				
Teachers:	Adžić Z. Nevenka, Doroslovački D. Rade, Gilezan K. Silvia, Grbić P. Tatjana, Kostić Z. Marko, Kovačević M. Ilija, Mihailović P. Biljana, Pantović B. Jovanka, Pilipović R. Stevan, Rajković R. Milan, Ralević M. Nebojša, Sladoje Matić I. Nataša, Stojaković M. Mila, Teofanov Đ. Ljiljana, Uzelac S. Zorica				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
5	0	0	3	0	
Precondition courses		None			
1. Educational goal:					
To acquire knowledge which can be used in professional subjects and practical work, develop and solve mathematical models for engineering courses using the knowledge gained through selected chapters in mathematics.					
2. Educational outcomes (acquired knowledge):					
Student will have been competent enough to develop and solve mathematical models in further professional education.					
3. Course content/structure:					
Student can choose in consultation with programme supervisor, one of the suggested modules: 1. Numerical Mathematics, 2. Optimization. 3. Pattern Recognition. 4. Partial Differential Equations, 5. Nonlinear Equations. 6. Computational geometry. 7. Elements of Functional Analysis. 8. Combinatorics. 9. Graph Theory.10.Operational Research- Linear Programming. 11. Probability 12. Statistics .13.Stochastic Processes. 14. Vector analysis. 15. Complex Analysis. 16. Linear Algebra. 17. Differential and Difference Equations. 18. Euclidean and Non-Euclidean Geometry. 19. Fractional Calculus,Differential Equations . 20. Operational Research-Quuiing theory. 21. Logic in Computing. 22. Discrete Mathematics. 23. Higher order Logic. 24. Theory of Mobile Processes. 25. Numerical Methods of Linear Algebra. 26. Fuzzy Sets. 27. Economic and Financial Mathematics. 28. Groups and Algebras Li. 29. Formal Languages and Automata Theory. 30. Process Algebras. 31. History of Mathematics. Part of the course is in the form of independent research and study in the field of mathematics. Study and research work is based on primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possible paper in the field of mathematics.					
4. Teaching methods:					
Lectures. (The student can choose in consultation with supervisor, one or more modules depending on module scope). Consultations. Lectures are organized in combined form. The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. In addition to lectures there are regular consultations. Through research and study work the student will, on the bases of scientific journals and other relevant literature that has been studied independently, develop further understanding of the material covered in lectures. Working with the course teacher the student develops the ability to independently work on a scientific paper.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Term paper		Yes	50.00	Oral part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Alexander Mood,...	Introduction to the theory of statistics		McGraw Hill	2005
2,	Athanasios Papoulis	Probability, random variables and stochastic processes		McGraw Hill	2002
3,	I. Kovačević, N. Ralević	Funkcionalna analiza		FTN (edicija tehničke nauke-udžbenici), Novi Sad	2004
4,	N.Ralević,I.Kovačević	Zbirka rešenih zadataka iz Funkcionalne analize		FTN (edicija tehničke nauke-udžbenici), Novi Sad	2004
5,	M.Stojaković	Slučajni procesi		FTN, Novi Sad	1999
6,	V.Jevremović,J.Mališić	Statističke metode u metorologiji i inženjerstvu		Savezni hidrometorološki zavod, Beograd	2002
7,	Zeidler E.	Nonlinear Functional Analysis and Aplications		Springer-Verlag, New York-Berlin-Heidelberg-Tokyo	1985
8,	Zlobec S., Petrić J	Nelinearno programiranje		Naučna knjiga, Beograd	1989
9,	Dauxois, M. Peyrard	Physics of Solitons		Cambridge University Press, Cambridge, New York	2006
10,	Saaty, T. L	Modern Nonlinear Equations		Dover Publications, Inc., New York	1981
11,	N. Ralević, S.Medić	Matematika 1 - drugi deo		FTN, Novi Sad	2002
12,	Heinz-Otto Peitgen, H. Juergens, D. Saune	Chaos and Fractals		Springer Verlag, New York	2004

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Literature					
Ord.	Author	Title		Publisher	Year
13,	Mileva Prvanović	Osnovi geometrije		Građevinska knjiga, Beograd	1990


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Table 5.2 Course specification

Course:		Research in the area of automatic identification technologies				
Course id:	HDOL12					
Number of ECTS:	14					
Teachers:		Ivandić I. Željko, Jovanović M. Vukica, Kozak V. Dražen, Ostojić M. Gordana, Stankovski V. Stevan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
5	0	0		4		0
Precondition courses						
None						
1. Educational goal:						
The aim of this course is to enable students to understand modern approach in the application of technology to automatically identify and research in this area.						
2. Educational outcomes (acquired knowledge):						
Outcomes are the knowledge and skills of students for independent and group research work and research in this area.						
3. Course content/structure:						
Study research opportunities and conditions that affect the application of constraint technology for automatic identification, such as linear and 2D barcode, OCR, RFID, NFC. Critical analysis of the applied technology of automatic identification. Creating a business case for implementation of automatic identification. Action research that involves testing of selected solutions to particular problems in the laboratory or field conditions.						
4. Teaching methods:						
Lectures: Mentor and student select one or more modules depending on their volume. Consultation. Lectures are delivered in combination. Delivering the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. While studying scientific journals and other literature student independently deepens subject-matter delivered at lectures. In addition to working with the teacher, students are trained to write their own scientific work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Ostojić G., Lazarević M., Stankovski S., Čosić I.	RFID Technology Application in Disassembly Systems			Strojniski vestnik = Journal of Mechanical Engineering	2008
2,	Stankovski, S., Lazarević, M., Ostojić, G., Čosić, I., Purić, R.	RFID Technology in Product/Part Tracking During the Whole Life Cycle			Assembly Automation, Elsevier	2009
3,	Russell E. Adams	Sourcebook of automatic identification and data collection			Van Nostrand Reinhold	1997
4,	Ostojić G., Stankovski S., Vukelić Đ., Lazarević M., Hodolić J., Tadić B., Odri S.	Implementation of automatic identification technology in a process of fixture assembly/disassembly			Strojniski vestnik = Journal of Mechanical Engineering	2011



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Table 5.2 Course specification

Course:		Motion controla and application of MEMS			
Course id:	HDOL13				
Number of ECTS:	14				
Teachers:	Ivandić I. Željko, Jovanović M. Vukica, Kozak V. Dražen, Ostojić M. Gordana, Stankovski V. Stevan				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
5	0	0	4	0	
Precondition courses					
None					
1. Educational goal:					
The aim of this course is to master the knowledge necessary for designing and implementing systems for motion control.					
2. Educational outcomes (acquired knowledge):					
Outcomes of the course are the knowledge that primarily cover the field of linear motion, and include sensors, actuators and control algorithms used for manipulation devices, machines and systems.					
3. Course content/structure:					
Exploring the possibilities of application of linear motion system with: servopneumatikom, servohidraulikom, DC motors, AC motors, servo motors. Research applications of sensors: proximity, position, pressure, velocity, flow. Exploring possibilities of MEMS as accelerometers, gyroscopes, pressure sensors.					
4. Teaching methods:					
Mentor and student select one or more modules depending on their volume. Consultation. Lectures are delivered in combination. Delivering the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. While studying scientific journals and other literature student independently deepens subject-matter delivered at lectures. In addition to working with the teacher, students are trained to write their own scientific work.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Project		Yes	50.00	Oral part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Tan K. K., T. H. Lee and S. Huang	Precision motion control: Design and implementation, 2nd ed.,		London, Springer	2008
2,	Robert H. Bishop	TheMechatronicsHandbook		CRC PRESS	2002
3,	Andrzej Pawlak	Senzors and Actuators in Mechatronics, Design and Applications		Taylor&Francis	2007



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Table 5.2 Course specification

Course:		Nonindustrial automation				
Course id:	HDOL14					
Number of ECTS:	14					
Teachers:		Ivandić I. Željko, Jovanović M. Vukica, Kozak V. Dražen, Ostojić M. Gordana, Stankovski V. Stevan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
5		0	0	4		0
Precondition courses		None				
1. Educational goal:						
The aim of this course is to enable students to understand the modern approach of the application of automation in thermal systems and research in this area.						
2. Educational outcomes (acquired knowledge):						
Outcomes are student's knowledge and skills for independent and group research and further research work in this area.						
3. Course content/structure:						
Automation in residential and commercial buildings. Monitoring energy consumption in buildings. Control. The application of automation in education. A part of teaching activity is accomplished through an independent study research in the field of non-industrial automation. Research work includes active monitoring of primary scientific sources, organizing and conducting experiments and statistical data processing as well as writing a paper regarding a topic in the field of study.						
4. Teaching methods:						
Lectures: (Mentor with the student selects one or more modules depending on its volume). Consultation. Lectures are conducted in combination. Presentation of the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. Through the study research work, scientific journals and other literature student independently broadens the knowledge presented at lectures. In addition to working with the teacher, students are trained to write their own scientific and research articles.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	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
2,	Ostojić, G., Stankovski, S., Tarjan, L., Šenk, I., Jovanovic, V.		Development and Implementation of Didactic Sets in Mechatronics and Industrial Engineering Courses		International Journal of Engineering Education	2010
3,	Grupa autora		Odabrani radovi sa SCI liste			2010


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Table 5.2 Course specification

Course:		Selected Chapters in Physics				
Course id:	DZ01F					
Number of ECTS:	12					
Teachers:		Budinski-Petković M. Ljuba, Kozmidis-Luburić F. Uranija, Kozmidis-Petrović F. Ana, Satarić V. Miljko, Vučinić-Vasić T. Milica				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
5		0	0		3	0
Precondition courses						
None						
1. Educational goal:						
To acquire the knowledge of physics which is applied in modern engineering.						
2. Educational outcomes (acquired knowledge):						
The students will have acquired the knowledge which enables them to develop models for solving problems in practical professional work as well as involvement in science and research work in the corresponding areas.						
3. Course content/structure:						
Student can choose in consultation with programme supervisor, one of the suggested modules: 1. Lasers, their applications in engineering, 2. Quantum tunnelling effect and applications, 3. Quantum dots, wires and tubes, Applications in nanotechnologies, 4. New materials, amorphous materials, spin glass, 5. Natural and artificial polymers and their application in nanotechnologies, 6. Numerical method of statistics physics, random number generator. Monte Carlo simulation.						
4. Teaching methods:						
Lectures. (The student can choose in consultation with co-mentor, one or more modules depending on module scope). Consultations. Lectures are organized in combined form. The presentation of the theoretical part is followed by the corresponding examples. In addition to lectures there are regular consultations. Through research and study work the student will, on the bases of scientific journals and other relevant literature that has been studied independently, develop further understanding of the material covered in lectures. Working with the course teacher the student develops the ability to independently work on a scientific paper.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	
Term paper			Yes	50.00	Oral part of the exam	
					Mandatory	
					Points	
					Yes	
					50.00	
Literature						
Ord.	Author		Title		Publisher	
1.	K. Binder, D.W. Heermann		Monte Carlo Simulation in Statistical Physics		Springer-Verlaq	
					1988	



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Table 5.2 Course specification

Course:		Current State in the Field						
Course id: SID04								
Number of ECTS: 2								
Teachers:		Atanacković M. Teodor, Katić A. Vladimir, Kulić J. Filip, Vilotić Ž. Dragiša						
Course status:		Mandatory						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
0		0		0		2	0	
Precondition courses None								
1. Educational goal:								
Introducing students to the current research directions and manners in solving problems from the wider study field.								
2. Educational outcomes (acquired knowledge):								
Knowledge on the current research directions worldwide in the field, based on lectures by prominent professors from the universities in Europe or prominent experts from the well-known companies abroad.								
3. Course content/structure:								
Contemporary topics in the field of research, presented by prominent professors and experts on lectures on invitation. Students select topics or attend lectures as they wish or as they find the topic interesting.								
4. Teaching methods:								
Survey on solving contemporary problems by theoretical methods and multimedia presentations.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Project			Yes	30.00	Oral part of the exam		Yes	70.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	Razni		Časopisi sa SCI liste			IEEE Publishing, i dr.		2008



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Table 5.2 Course specification

Course:		Selected Chapters in Industrial Robotics				
Course id:	HDOK-1					
Number of ECTS:	14					
Teacher:		Borovac A. Branislav				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
5		0	0		4	0
Precondition courses						
None						
1. Educational goal:						
The goal of the course is that, in accordance with their prior knowledge and interests, students learn about traditional and new areas of industrial robotics and to introduce the research problem.						
2. Educational outcomes (acquired knowledge):						
The outcome of the course are the knowledge and ability of students to understand the issues, particularly the advanced field of industrial robotics and to get involved into research work in this field of study.						
3. Course content/structure:						
Basic concepts and definitions, homogeneous transformations, robot kinematics (direct and inverse problem), Denavit-Hartenbergova notation, Jacobians, synthesis trajectory, the dynamics of robots, robot control, robot programming, sensors in robotics and their application, the application of robots in industrial tasks. Part of the teaching activity on the subject is a self-study research in the field of industrial robotics. Study research includes active monitoring of the primary scientific sources, organization and execution of experiments and statistical data processing, numerical simulation, writing a paper with a topic close to the scientific and teaching area of the subject of student's doctoral dissertation.						
4. Teaching methods:						
Depending on the number of students teaching activity may have a classic approach (lectures, consultations), or mentoring. Forms of teaching activity are adapted to the number of students and selected chapters. Study research.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Term paper			Yes	50.00	Oral part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	M. Vukobratović, D. Stokić		Control of Manipulation Robots		Springer, ISBN 3-540-11629-X, ISBN 0-387-11629-X	1982
2,	M. Vukobratović, M. Kirčanski		Kinematics and Trajectory Synthesis of Manipulation Robots,		Springer Verlag, ISBN 3-540-13071-3	1986
3,	M. Vukobratović, D. Stokić, N. Kirčanski		Non-adaptive and Adaptive Control of Manipulation Robots		Springer, ISBN 3-540-13073-X, ISBN 0-387-130	1985
4,	M. Spong, S. Hutchinson, M. Vidyasagar		Robot Modelling and Control		John Wiley & Sons, ISBN-10 0-471-64990-2, ISBN-13	2006
5,	L. Sciavicco, B. Sicilijano		Modelling and control of robot manipulators		Springer - Verlag, ISBN 1-85233-221-2	2000
6,	B. Borovac, G. Đorđević, M. Rašić, M. Raković		Industrijska robotika		(u pripremi)	2007
7,	B. Borovac, G. Đorđević, M. Rašić, M. Raković		Zbirka zadataka iz industrijske robotike		(u pripremi)	2007





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Table 5.2 Course specification

Course:		Advanced Application of ICT in Agriculture				
Course id: HDOK11						
Number of ECTS: 14						
Teachers:		Martinov L. Milan, Radonić R. Jelena				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:	Study research work:		Other classes:
5		0	0	4		0
Precondition courses None						
1. Educational goal:						
Acquired knowledge on application of information and communication technologies in agriculture.						
2. Educational outcomes (acquired knowledge):						
Knowledge on requirements in controlling, problems and solutions of agricultural machines and processes.						
3. Course content/structure:						
Subject introduction, introducing to the subject schedule and students assignments. Fundamentals in technology of agricultural production. Ecological, economic and organizational requirements for operations management. IT application in tractors. Strategy of tractor controlling. Agricultural BUS systems. Standards, CAN in agriculture. IT in land cultivation. IT in technologies and machines for inputs in agriculture. Strategies for controlling combination tractor and operation machines. Web sites in the field of application IT in agricultural mechanical engineering.						
4. Teaching methods:						
Auditory classes with necessary consultations.						
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 60.00
Term paper		Yes	30.00			
Literature						
Ord.	Author	Title		Publisher		Year
1,	Schön, H.	Elektronik und Computer in der Landwirtschaft		Eugen Ulemer, Stuttgart		1993
2,	Auernhammer, H.	Elektronik in Traktoren und Maschinen		BLV Verlagsgesellschaft, München		1991
3,	Munack, A.	CIGR Handbook of Agricultural Engineering, Volume VI Information Technology		American Society of Agricultural Eng, St. Joseph		2006
4,	Kamp, P., Timmerman, G.J.	Computerised Environmental Control in Greenhouses		PTC+, Ede		2003



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Table 5.2 Course specification

Course:		Research in the area of automatic identification technologies				
Course id:	HDOK12					
Number of ECTS:	14					
Teachers:		Ostojić M. Gordana, Stankovski V. Stevan, Jovanović M. Vukica, 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:
5	0	0		4		0
Precondition courses						
None						
1. Educational goal:						
The aim of this course is to enable students to understand modern approach in the application of technology to automatically identify and research in this area.						
2. Educational outcomes (acquired knowledge):						
Outcomes are the knowledge and skills of students for independent and group research work and research in this area.						
3. Course content/structure:						
Study research opportunities and conditions that affect the application of constraint technology for automatic identification, such as linear and 2D barcode, OCR, RFID, NFC. Critical analysis of the applied technology of automatic identification. Creating a business case for implementation of automatic identification. Action research that involves testing of selected solutions to particular problems in the laboratory or field conditions.						
4. Teaching methods:						
Lectures: Mentor and student select one or more modules depending on their volume. Consultation. Lectures are delivered in combination. Delivering the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. While studying scientific journals and other literature student independently deepens subject-matter delivered at lectures. In addition to working with the teacher, students are trained to write their own scientific work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	Ostojić G., Lazarević M., Stankovski S., Čosić I.	RFID Technology Application in Disassembly Systems			Strojniski vestnik = Journal of Mechanical Engineering	2008
2,	Stankovski, S., Lazarević, M., Ostojić, G., Čosić, I., Purić, R.	RFID Technology in Product/Part Tracking During the Whole Life Cycle			Assembly Automation, Elsavier	2009
3,	Russell E. Adams	Sourcebook of automatic identification and data collection			Van Nostrand Reinhold	1997
4,	Ostojić G., Stankovski S., Vukelić Đ., Lazarević M., Hodolić J., Tadić B., Odri S.	Implementation of automatic identification technology in a process of fixture assembly/disassembly			Strojniski vestnik = Journal of Mechanical Engineering	2011


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Table 5.2 Course specification

Course:		Motion control and the application of MEMS				
Course id:	HDOK13					
Number of ECTS:	14					
Teachers:		Stankovski V. Stevan, Ostojić M. Gordana, Jovanović M. Vukica, 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:
5		0	0	4		0
Precondition courses						
None						
1. Educational goal:						
The aim of this course is to master the knowledge necessary for designing and implementing systems for motion control.						
2. Educational outcomes (acquired knowledge):						
Outcomes of the course are the knowledge that primarily cover the field of linear motion, and include sensors, actuators and control algorithms used for manipulation devices, machines and systems.						
3. Course content/structure:						
Exploring the possibilities of application of linear motion system with: servopneumatikom, servohidraulikom, DC motors, AC motors, servo motors. Research applications of sensors: proximity, position, pressure, velocity, flow. Exploring possibilities of MEMS as accelerometers, gyroscopes, pressure sensors.						
4. Teaching methods:						
Mentor and student select one or more modules depending on their volume. Consultation. Lectures are delivered in combination. Delivering the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. While studying scientific journals and other literature student independently deepens subject-matter delivered at lectures. In addition to working with the teacher, students are trained to write their own scientific work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	50.00	Oral part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Tan K. K., T. H. Lee and S. Huang		Precision motion control: Design and implementation, 2nd ed.,		London, Springer	2008
2,	Robert H. Bishop		TheMechatronicsHandbook		CRC PRESS	2002
3,	Andrzej Pawlak		Senzors and Actuators in Mechatronics, Design and Applications		Taylor&Francis	2007



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Table 5.2 Course specification

Course:		Non-industrial Automation				
Course id: HDOK14						
Number of ECTS: 14						
Teachers:		Ostojić M. Gordana, Stankovski V. Stevan, Jovanović M. Vukica, 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:
5		0	0	4		0
Precondition courses		None				
1. Educational goal:						
The aim of this course is to enable students to understand the modern approach of the application of automation in thermal systems and research in this area.						
2. Educational outcomes (acquired knowledge):						
Outcomes are student's knowledge and skills for independent and group research and further research work in this area.						
3. Course content/structure:						
Automation in residential and commercial buildings. Monitoring energy consumption in buildings. Control. The application of automation in education. A part of teaching activity is accomplished through an independent study research in the field of non-industrial automation. Research work includes active monitoring of primary scientific sources, organizing and conducting experiments and statistical data processing as well as writing a paper regarding a topic in the field of study.						
4. Teaching methods:						
Lectures: (Mentor with the student selects one or more modules depending on its volume). Consultation. Lectures are conducted in combination. Presentation of the theoretical part is followed by the examples that clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. Through the study research work, scientific journals and other literature student independently broadens the knowledge presented at lectures. In addition to working with the teacher, students are trained to write their own scientific and research articles.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	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
2,	Ostojić, G., Stankovski, S., Tarjan, L., Šenk, I., Jovanovic, V.		Development and Implementation of Didactic Sets in Mechatronics and Industrial Engineering Courses		International Journal of Engineering Education	2010
3,	Grupa autora		Odabrani radovi sa SCI liste			2010



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Table 5.2 Course specification

Course:		Selected Chapters in Automation Systems Integration				
Course id: HDOK-3						
Number of ECTS: 14						
Teachers:		Stankovski V. Stevan, Ostojić M. Gordana, Jovanović M. Vukica, 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:
5		0	0		4	0
Precondition courses		None				
1. Educational goal:						
The objective of the course is to obtain knowledge in integration of devices used in automation systems.						
2. Educational outcomes (acquired knowledge):						
The outcome of the course is the knowledge that enables integration of devices used in automation systems.						
3. Course content/structure:						
Principles and strategies of system automation; Industrial control systems; Automation systems for data acquisition; Flexible production systems; Competitive engineering						
4. Teaching methods:						
Mentor and the student choose one or more modules, depending on the scope of the module. Consultation. Lectures are conducted in combination. Leaving the theoretical part is followed by examples which serve to clarify material of the theoretical part. In addition to lectures, consultations are held regularly. Through study research, the student studies scientific journals and other literature and independently deepens curriculum from lectures. Through the work with the teacher, the student is trained to write independently their own scientific work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	50.00	Theoretical part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Groover P. Mikkell		Automation Production Systems and Computer Integrated Manufacturing		Prentice Hall	2003
2,	Turban Efraim, McLean Efraim, Wetherbe James		Informaciona tehnologija za menadžment		Zavod za udžbenike i nastavna sredstva	2003



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Table 5.2 Course specification

Course:		Selected Chapters in Non-Industrial Robotics				
Course id:	HDOK-2					
Number of ECTS:	14					
Teacher:	Borovac A. Branislav					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
5	0	0		4		0
Precondition courses						
None						
1. Educational goal:						
The course goal is to make students, having in mind their previous knowledge and interests, familiar with the new topics in the field of Non-Industrial Robotics, which is a field that is becoming increasingly more important, and to introduce them to research study.						
2. Educational outcomes (acquired knowledge):						
The expected educational outcomes of this course are the student's knowledge and ability to fully understand the topics and issues related to Non-Industrial Robotics and his/her involvement in research work in this field of study.						
3. Course content/structure:						
In accordance with the student's interests, some of the following topics will be further studied: applications for service robots (in a household, on a building site, in a hazardous environment, inspection robots, life saving robots, etc.), autonomous robots, control and regulation in biological systems, the comparison of the `control architecture` of biological systems and autonomous robots, types of autonomous robots depending on the way in which they move (wheels and tracks, jumping robots, snake-like robots, flying robots, multiple-legged and two-legged robot locomotion, etc.), robot learning, "behaviour-based robotics" which represents a new way in which we control robots in an unstructured environment like ours, grasping and manipulation of objects, humanoid robots. A part of the course work is conducted through independent individual study and research work in the field of Non-Industrial Robotics.The research study requires the student's active and constant interest in and reading of the primary scientific resources, the organization and conducting of experiments and statistical processing of data, numerical simulations, writing a paper in the specific scientific field relevant to the doctoral dissertation						
4. Teaching methods:						
Depending on the number of students the course can be carried out either through lectures, or by working with a mentor (tutorial work). Modes of teaching depend on the number of students and the chosen chapters (topics). Students are involved in the research study work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Term paper		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author	Title		Publisher		Year
1,	George A. Bekey	Autonomous robots – From biological inspiration to implementation and control		The MIT Press, ISBN 0-262-02578-7		2005
2,	Rodney A. Brooks	Cambrian Intelligence – The Early History of the New AI		A Bradford Book, The MIT Press		1999
3,	Ronald Arkin	Behavior-based Robotics		The MIT Press, ISBN 0-262-01165-4		1998
4,	Vukobratović M., Borovac B., Surla D., Stokić D.	BIPED LOCOMOTION -Dynamics, Stability, Control and Application		Springer, ISBN 0-540-17456-7, ISBN 0-387-1745		1990



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Table 5.2 Course specification

Course:		Selected Chapters in Production Process Automation						
Course id: HDOK-4								
Number of ECTS: 14								
Teachers:		Buchmeister S. Borut, Čuš -. Franci, Katalinić -. Branko, Palčić -. Iztok, Šešlija D. Dragan						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:		
5		0	0		4	0		
Precondition courses		None						
1. Educational goal:								
The objective of the course is to obtain actual knowledge in the field of working process automation which is used in production and service systems and to introduce research problems.								
2. Educational outcomes (acquired knowledge):								
The outcome of the course is to obtain knowledge that enables students to systematically carry out working process automation in modern production and service systems as well as the knowledge and students` ability for independent and group research and research in this area.								
3. Course content/structure:								
Pneumatic, hydraulic and electrical systems automation. Energy efficiency of pneumatic systems. The quality of compressed air. Correlation requirements for air pressure and implementation methods. Effective filtration of compressed air. Automation filtering. Vacuum technology in automation.								
4. Teaching methods:								
Teaching activity is conducted through lectures and consultations. Preparation and defense of the scheduled project and passing the final examination. Prerequisite for taking the final examination is to complete and defend the project successfully. The final examination is written and refers to theoretical issues.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Project defence			Yes	70.00	Theoretical part of the exam		Yes	30.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	Groover P. Mikkell		Automation Production Systems and Computer Integrated Manufacturing			Prentice Hall		2003
2,	M. Stojiljkovć		Logička sinteza pneumatskog upravljanja			Mašinski fakultet, Niš		2002
3,	Šešlija, D., Lagod, B.		Stanje pneumatskih sistema u industriji Srbije sa aspekta energetske efikasnosti			Centar za automatizaciju i mehatroniku, Novi Sad		2006
4,	Šešlija D, Ignjatović I, Dudić S		Increasing the Energy Efficiency in Compressed Air Systems			InTech		2012
5,	Dudić S, Ignjatović I, Šešlija D, Blagojević V, Stojiljković M		Leakage quantification of compressed air using ultrasound and infrared thermography			Elsevier		2012



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	<h2 style="margin: 0;">Study Programme Accreditation - PhD Studies</h2> <p style="margin: 0;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	

Table 5.2 Course specification

<b>Course:</b>	<h3>Preparation for the Application of Doctoral Dissertation Topic</h3>				
<b>Course id:</b> SID05					
<b>Number of ECTS:</b> 2					
<b>Teachers:</b>					
<b>Course status:</b>	Mandatory				
<b>Number of active teaching classes (weekly)</b>					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	2	0	
<b>Precondition courses</b>		None			
<b>1. Educational goal:</b> <p>Overview of situation in the area of the proposed topic for doctoral dissertation based on the scientific literature analysis – books, monographs, papers in referential journals, papers from conference proceedings, available documentation at websites, etc. The objective is to overview the possibilities of the thesis and scientific potential of the topic.</p>					
<b>2. Educational outcomes (acquired knowledge):</b> <p>Study on the potentials of the proposed doctoral dissertation topic, i.e. the systematized knowledge in the area of the research topic for doctoral dissertation, as well as clear directions in further research on the topic.</p>					
<b>3. Course content/structure:</b> <p>Defining the wider area of the doctoral dissertation topic and key motives for research. Overview of literature on the basis of available scientific books, monographs, papers in referential journals, papers from conference proceedings, available documentation at websites, etc. Study on the potentials of the proposed doctoral dissertation topic.</p>					
<b>4. Teaching methods:</b> <p>Teaching is performed as tutorials.</p>					
<b>Knowledge evaluation (maximum 100 points)</b>					
Pre-examination obligations		Mandatory	Points	Final exam	
Term paper		Yes	70.00	Oral part of the exam	
				Mandatory	Points
				Yes	30.00
<b>Literature</b>					
Ord.	Author	Title		Publisher	Year
1,	Priznati naučnici i stručnjaci iz oblasti teme Dr teze	Razna naučna dela			sve





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Table 5.2 Course specification

Course:		Nonsmooth Mechanics and Optimization				
Course id:	DM406					
Number of ECTS:	14					
Teacher:		Spasić T. Dragan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
5	0	0		4		0
Precondition courses		None				
1. Educational goal:						
Application of nonsmooth mathematical analysis in studying of mechanical systems movement and acquiring optimal solutions.						
2. Educational outcomes (acquired knowledge):						
Ability to analyse system with unilateral limit movement, in the presence of regular and impact force, with or without dry friction.						
3. Course content/structure:						
Elements of nonsmooth mathematical analysis: general and multivalued functions. Unilateral functions. Differential equations. Differential inclusions. Complementary formulations. Systems with unilateral limitations. Variational principles and unilateral limitations. Collision of two or more bodies. Moore's process. Stability of nonsmooth dynamic systems with unilateral limitations. Quasidifferential functions and sets. Quasidifferential optimization. Algorithms of nonsmooth optimization. Application in robotics in theory of oscillation and economy.						
4. Teaching methods:						
Lectures. Mentor work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Project		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author	Title			Publisher	Year
1,	B. Brogliato	Nonsmooth mechanics, models, dynamics and control			Springer London	1999
2,	MDP Monteiro Marques	Differential inclusions in nonsmooth mechanical problems			Birkhauser	1993
3,	Demyanov Stavroulakis Polyakova Panagiotopoulos	Quasidifferentiability and nonsmooth modelling in mechanics, engineering and economics			Kluwer	1996



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Table 5.2 Course specification

Course:		Selected topics in non-industrial robotics				
Course id:	HDOKL1					
Number of ECTS:	14					
Teacher:	Borovac A. Branislav					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
5	0	0	4	0		
Precondition courses						
None						
1. Educational goal:						
The goal of the course is that, in accordance with their prior knowledge and interests, students learn about traditional and new areas of industrial robotics and to introduce the research problem.						
2. Educational outcomes (acquired knowledge):						
The outcome of the course are the knowledge and ability of students to understand the issues, particularly the advanced field of industrial robotics and to get involved into research work in this field of study.						
3. Course content/structure:						
Basic concepts and definitions, homogeneous transformations, robot kinematics (direct and inverse problem), Denavit-Hartenbergova notation, Jacobians, synthesis trajectory, the dynamics of robots, robot control, robot programming, sensors in robotics and their application, the application of robots in industrial tasks. Part of the teaching activity on the subject is a self-study research in the field of industrial robotics. Study research includes active monitoring of the primary scientific sources, organization and execution of experiments and statistical data processing, numerical simulation, writing a paper with a topic close to the scientific and teaching area of the subject of student's doctoral dissertation.						
4. Teaching methods:						
Depending on the number of students teaching activity may have a classic approach (lectures, consultations), or mentoring. Forms of teaching activity are adapted to the number of students and selected chapters. Study research.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Term paper		Yes	50.00	Oral part of the exam	Yes 50.00	
Literature						
Ord.	Author	Title		Publisher	Year	
1,	M. Vukobratović, D. Stokić	Control of Manipulation Robots		Springer, ISBN 3-540-11629-X, ISBN 0-387-11629-X	1982	
2,	M. Vukobratović, M. Kirčanski	Kinematics and Trajectory Synthesis of Manipulation Robots,		Springer Verlag, ISBN 3-540-13071-3	1986	
3,	M. Vukobratović, D. Stokić, N. Kirčanski	Non-adaptive and Adaptive Control of Manipulation Robots		Springer, ISBN 3-540-13073-X, ISBN 0-387-130	1985	
4,	M. Spong, S. Hutchinson, M. Vidyasagar	Robot Modelling and Control		John Wiley & Sons, ISBN-10 0-471-64990-2, ISBN-13	2006	
5,	L. Sciavicco, B. Sicilijano	Modelling and control of robot manipulators		Springer - Verlag, ISBN 1-85233-221-2	2000	
6,	B. Borovac, G. Đorđević, M. Rašić, M. Raković	Industrijska robotika		(u pripremi)	2007	
7,	B. Borovac, G. Đorđević, M. Rašić, M. Raković	Zbirka zadataka iz industrijske robotike		(u pripremi)	2007	


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Table 5.2 Course specification

Course:		Selected topics in non-industrial robotics				
Course id:	HDOKL2					
Number of ECTS:	14					
Teacher:	Borovac A. Branislav					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
5	0	0	4	0		
Precondition courses						
None						
1. Educational goal:						
The course goal is to make students, having in mind their previous knowledge and interests, familiar with the new topics in the field of Non-Industrial Robotics, which is a field that is becoming increasingly more important, and to introduce them to research study.						
2. Educational outcomes (acquired knowledge):						
The expected educational outcomes of this course are the student's knowledge and ability to fully understand the topics and issues related to Non-Industrial Robotics and his/her involvement in research work in this field of study.						
3. Course content/structure:						
In accordance with the student's interests, some of the following topics will be further studied: applications for service robots (in a household, on a building site, in a hazardous environment, inspection robots, life saving robots, etc.), autonomous robots, control and regulation in biological systems, the comparison of the 'control architecture' of biological systems and autonomous robots, types of autonomous robots depending on the way in which they move (wheels and tracks, jumping robots, snake-like robots, flying robots, multiple-legged and two-legged robot locomotion, etc.), robot learning, "behaviour-based robotics" which represents a new way in which we control robots in an unstructured environment like ours, grasping and manipulation of objects, humanoid robots. A part of the course work is conducted through independent individual study and research work in the field of Non-Industrial Robotics.The research study requires the student's active and constant interest in and reading of the primary scientific resources, the organization and conducting of experiments and statistical processing of data, numerical simulations, writing a paper in the specific scientific field relevant to the doctoral dissertation						
4. Teaching methods:						
Depending on the number of students the course can be carried out either through lectures, or by working with a mentor (tutorial work). Modes of teaching depend on the number of students and the chosen chapters (topics). Students are involved in the research study work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points	
Term paper		Yes	50.00	Oral part of the exam	Yes 50.00	
Literature						
Ord.	Author	Title		Publisher	Year	
1,	George A. Bekey	Autonomous robots – From biological inspiration to implementation and control		The MIT Press, ISBN 0-262-02578-7	2005	
2,	Rodney A. Brooks	Cambrian Intelligence – The Early History of the New AI		A Bradford Book, The MIT Press	1999	
3,	Ronald Arkin	Behavior-based Robotics		The MIT Press, ISBN 0-262-01165-4	1998	
4,	Vukobratović M., Borovac B., Surla D., Stokić D.	BIPED LOCOMOTION -Dynamics, Stability, Control and Application		Springer, ISBN 0-540-17456-7, ISBN 0-387-1745	1990	



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Table 5.2 Course specification

Course:		Selected Chapters in Automation Systems Integration				
Course id: HDOKL3						
Number of ECTS: 14						
Teachers:		Ivandić I. Željko, Jovanović M. Vukica, Kozak V. Dražen, Ostojić M. Gordana, Stankovski V. Stevan				
Course status:		Elective				
Number of active teaching classes (weekly)						
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:
5		0	0		4	0
Precondition courses		None				
1. Educational goal:						
The objective of the course is to obtain knowledge in integration of devices used in automation systems.						
2. Educational outcomes (acquired knowledge):						
The outcome of the course is the knowledge that enables integration of devices used in automation systems.						
3. Course content/structure:						
Principles and strategies of system automation; Industrial control systems; Automation systems for data acquisition; Flexible production systems; Competitive engineering						
4. Teaching methods:						
Mentor and the student choose one or more modules, depending on the scope of the module. Consultation. Lectures are conducted in combination. Leaving the theoretical part is followed by examples which serve to clarify material of the theoretical part. In addition to lectures, consultations are held regularly. Through study research, the student studies scientific journals and other literature and independently deepens curriculum from lectures. Through the work with the teacher, the student is trained to write independently their own scientific work.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations			Mandatory	Points	Final exam	Mandatory Points
Project			Yes	50.00	Oral part of the exam	Yes 50.00
Literature						
Ord.	Author		Title		Publisher	Year
1,	Groover P. Mikkell		Automation Production Systems and Computer Integrated Manufacturing		Prentice Hall	2003
2,	Turban Efraim, McLean Efraim, Wetherbe James		Informaciona tehnologija za menadžment		Zavod za udžbenike i nastavna sredstva	2003



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Table 5.2 Course specification

Course:		Selected chapters from automation of work processes						
Course id: HDOKL4								
Number of ECTS: 14								
Teachers:		Buchmeister S. Borut, Čuš -. Franci, Katalinić -. Branko, Palčič -. Iztok, Šešlija D. Dragan						
Course status:		Elective						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:	Other teaching types:		Study research work:	Other classes:		
5		0	0		4	0		
Precondition courses		None						
1. Educational goal:								
The objective of the course is to obtain actual knowledge in the field of working process automation which is used in production and service systems and to introduce research problems.								
2. Educational outcomes (acquired knowledge):								
The outcome of the course is to obtain knowledge that enables students to systematically carry out working process automation in modern production and service systems as well as the knowledge and students` ability for independent and group research and research in this area.								
3. Course content/structure:								
Pneumatic, hydraulic and electrical systems automation. Energy efficiency of pneumatic systems. The quality of compressed air. Correlation requirements for air pressure and implementation methods. Effective filtration of compressed air. Automation filtering. Vacuum technology in automation.								
4. Teaching methods:								
Teaching activity is conducted through lectures and consultations. Preparation and defense of the scheduled project and passing the final examination. Prerequisite for taking the final examination is to complete and defend the project successfully. The final examination is written and refers to theoretical issues.								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Project defence			Yes	70.00	Theoretical part of the exam		Yes	30.00
Literature								
Ord.	Author		Title			Publisher		Year
1,	Groover P. Mikkell		Automation Production Systems and Computer Integrated Manufacturing			Prentice Hall		2003
2,	M. Stojiljkovć		Logička sinteza pneumatskog upravljanja			Mašinski fakultet, Niš		2002
3,	Šešlija, D., Lagod, B.		Stanje pneumatskih sistema u industriji Srbije sa aspekta energetske efikasnosti			Centar za automatizaciju i mehatroniku, Novi Sad		2006
4,	Šešlija D, Ignjatović I, Dudić S		Increasing the Energy Efficiency in Compressed Air Systems			InTech		2012
5,	Dudić S, Ignjatović I, Šešlija D, Blagojević V, Stojiljković M		Leakage quantification of compressed air using ultrasound and infrared thermography			Elsevier		2012



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Table 5.2 Course specification

Course:		Advanced application of ICT in agriculture			
Course id:	HDOL11				
Number of ECTS:	14				
Teachers:		Martinov L. Milan, Radonić R. Jelena			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
5	0	0	4	0	
Precondition courses		None			
1. Educational goal:					
Acquired knowledge on application of information and communication technologies in agriculture.					
2. Educational outcomes (acquired knowledge):					
Knowledge on requirements in controlling, problems and solutions of agricultural machines and processes.					
3. Course content/structure:					
Subject introduction, introducing to the subject schedule and students assignments. Fundamentals in technology of agricultural production. Ecological, economic and organizational requirements for operations management. IT application in tractors. Strategy of tractor controlling. Agricultural BUS systems. Standards, CAN in agriculture. IT in land cultivation. IT in technologies and machines for inputs in agriculture. Strategies for controlling combination tractor and operation machines. Web sites in the field of application IT in agricultural mechanical engineering.					
4. Teaching methods:					
Auditory classes with necessary consultations.					
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 60.00
Term paper		Yes	30.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	Schön, H.	Elektronik und Computer in der Landwirtschaft		Eugen Ulemer, Stuttgart	1993
2,	Auernhammer, H.	Elektronik in Traktoren und Maschinen		BLV Verlagsgesellschaft, München	1991
3,	Munack, A.	CIGR Handbook of Agricultural Engineering, Volume VI Information Technology		American Society of Agricultural Eng, St. Joseph	2006
4,	Kamp, P., Timmerman, G.J.	Computerised Environmental Control in Greenhouses		PTC+, Ede	2003

Table 5.2 Course specification

Course:		Selected chapters from energy efficiency of compressed air systems			
Course id: IMDR86					
Number of ECTS: 14					
Teachers:		Šešlija D. Dragan, Dudić P. Slobodan			
Course status:		Elective			
Number of active teaching classes (weekly)					
Lectures:		Practical classes:	Other teaching types:	Study research work:	Other classes:
5		0	0	4	0
Precondition courses		None			
1. Educational goal:					
The educational goal is to deepen the knowledge of doctoral students in the field of energy efficiency of compressed air automated systems and, in that sense, to became familiar with advanced pneumatic control systems, which is used in modern compressed air systems.					
2. Educational outcomes (acquired knowledge):					
Learning outcomes are the knowledge and skills of students in independent and team scientific and research work in the field of energy efficiency of compressed air.					
3. Course content/structure:					
Pneumatic control systems with the end position control, pneumatic control systems with stops between the final position, modeling of components (compressed air cylinders, control valves, ...), simulation models of pneumatic components, the application and effectiveness of different control techniques ( P, I, D, PI, PID ) on energy efficiency, Fuzzy regulation and energy efficiency of compressed air systems, Sliding mode and the energy efficiency of compressed air systems, Servopneumatic control and energy efficiency of compressed air systems, application of PWM control to increase the energy efficiency of compressed air systems, application of PCM control to increase the energy efficiency of compressed air systems, application of PNM control to increase the energy efficiency of compressed air systems, Influence of compressed air quality on energy efficiency, Non-conventional pneumatic actuators influence on energy efficiency, Pneumatic systems with closed circuits, Energy efficiency of complex (with pneumatic and / or hydraulic components) robotic cells.					
4. Teaching methods:					
Lectures are conducted in a combined way. Leacturing of the theoretical part is followed by examples which serve to clarify the theoretical part of the curriculum. In addition to the lectures, consultations are held regularly. Through study research student, studying scientific journals and other literature and conducting experiments, independently deepens the subject. In addition to working with the student teacher is trained to write his own scientific work in the chosen field.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Term paper		Yes	50.00	Oral part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Dudić, S., Ignjatović, I., Šešlija, D., Blagojević, V., Stojiljković, M.	Leakage quantification of compressed air using ultrasound and infrared thermography		Measurement	2012
2,	Ignjatović, I., Šešlija, D., Tarjan, L., Dudić S.	Wireless sensor system for monitoring of compressed air filters		Journal of Scientific and Industrial Research	2012
3,	Blagojević V, Šešlija D, Stojiljković M	Cost effectiveness of restoring energy in execution part of pneumatic system		Journal of Scientific and Industrial Research	2011
4,	Čajetinac, S., Šešlija, D., Aleksandrov, S., Todorović, M.	PLC Controller used for PWM Control and for Identification of Frequency Characteristics of a Pneumatic Actuator		Elektronika Ii Elektrotehnika	2012
5,	Ignjatović, I., Komenda, T., Šešlija, D., Mališa, V.	Optimisation of compressed air and electricity consumption in a complex robotic cell		Robotics and Computer-integrated Manufacturing	2012





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Table 5.2 Course specification

Course:		Doctoral Dissertation (Theoretical Bases)						
Course id:	SID01							
Number of ECTS:	30							
Teachers:								
Course status:		Mandatory						
Number of active teaching classes (weekly)								
Lectures:		Practical classes:		Other teaching types:		Study research work:	Other classes:	
0		0		0		20	0	
Precondition courses							None	
1. Educational goal:								
The application of fundamental, theoretical and methodological, scientific and professional, and professional and applicative knowledge, methods and contemporary knowledge from the magazines from the SCI list in order to solve concrete problems within the courses at Doctoral studies.								
2. Educational outcomes (acquired knowledge):								
Enabling students to individually connect the contents from the courses at Doctoral studies, apply previously acquired as well as new knowledge for observing the structure of the set problems and its systematic analysis in order to elaborate conclusions on possible directions in its solving. Through individual usage of literature, students broaden their knowledge and utilizing new methods individually and creatively, they use new knowledge in solving the set problems.								
3. Course content/structure:								
It is formulated individually in accordance with further research. Students read scientific literature, and perform analyses in order to find solutions for a concrete task which is defined by setting the task on the side of the supervisor and other lecturers at Doctoral studies. Theoretical bases present a classification examinations. Students are prepared to take the classification examination.								
4. Teaching methods:								
Student's co-supervisor sets the seminar paper task and delivers it to the student. The student has the obligation to elaborate the paper within the set theme defined by the paper task, utilizing the literature proposed by the co-supervisor. During the paper elaboration, the co-supervisor can provide additional instructions to the student direct them to certain literature and additionally direct them towards the elaboration of a quality paper. During the study research work, the student has tutorials with the co-supervisor and course lecturers, and if needed, with other lecturers dealing with the problems in the field of the set paper task. Within the set theme, the student can also perform certain measuring, research, calculations, surveys and other researches, statistic data processing, if it is necessary for the task. After the defence of the paper, the candidate has to pass the oral examination in the field of the passed examinations, in front of a committee. If the examination is								
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points
Term paper			Yes	50.00	Oral part of the exam		Yes	50.00
Literature								
Ord.	Author		Title			Publisher		Year
1.	grupa autora		časopisi sa liste Kobsona					sve
2.	grupa autora		časopisi i doktorske disertacije iz date problematike					sve





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Table 5.2 Course specification

Course:		Doctoral Dissertation – Study and Research				
Course id:	SID02					
Number of ECTS:	30					
Teachers:						
Course status:		Mandatory				
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:		Study research work:		Other classes:
0	0	0		30		0
Precondition courses		None				
1. Educational goal:						
The application of fundamental, theoretical and methodological, scientific and professional, and professional and applicative knowledge and methods in solving concrete problems within the selected field. In this segment of Doctoral dissertation, students investigate the problem, its structure and complexity and on the basis of the performed analyses draw conclusions on possible manner in its solving. Researching the literature, students are introduced to methods attended for creative solving of new tasks and the engineering practice in their solving. The objective of students' activity within this segment of research is to acquire necessary experience through solving complex problems and tasks and recognizing the possibility for applying previously acquired knowledge in practice.						
2. Educational outcomes (acquired knowledge):						
Enabling students to individually apply previously acquired knowledge from diverse areas already studied in order to observe the structure of the set problem and its systematic analysis for drawing conclusions on possible directions in its solving. Through individual usage of literature, students broaden their knowledge from the selected field and they investigate diverse methods and papers related to the similar fields. Thus, students develop the competence to perform analyses and identify problems within the set theme. Practical application of the acquired knowledge from diverse areas develops in students the ability to overview the place and the role of engineers in the selected field, the demand for cooperation with other professions and the team work.						
3. Course content/structure:						
It is formulated individually in accordance with the elaboration of the concrete Doctoral dissertation, its complexity and structure. Students read scientific literature, Doctoral dissertations by other students dealing with similar theme; they perform analyses in order to find solutions for a concrete task defined by the task of the Doctoral dissertation.						
4. Teaching methods:						
The supervisor of the Doctoral dissertation sets the dissertation task and delivers it to the student. The student has the obligation to elaborate the dissertation within the set theme defined by the Doctoral dissertation task, utilizing the literature proposed by the supervisor. During the elaboration of the Doctoral dissertation, the supervisor can provide additional instructions to the student direct them to certain literature and additionally direct them towards the elaboration of a quality Doctoral dissertation. During the study research work, the student has tutorials with the supervisor, and if needed, with other lecturers dealing with the problems in the field of the set dissertation task. Within the set theme, the student can also perform certain measuring, research, calculations, surveys and other researches, statistic data processing, if it is predicted by the task of the Doctoral dissertation.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory Points
Term paper		Yes	50.00	Oral part of the exam		Yes 50.00
Literature						
Ord.	Author	Title			Publisher Year	
1,	grupa autora	časopisi sa liste Kobson			sve	
2,	grupa autora	časopisi i doktorske disertacije iz date problematike			sve	



	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Table 5.2 Course specification

Course:		Doctoral Dissertation – Study and Research			
Course id:	SID03				
Number of ECTS:	10				
Teachers:					
Course status:		Mandatory			
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
0	0	0	10	0	
Precondition courses		None			
1. Educational goal:					
The continuation of study and research from previous semester. The application of fundamental, theoretical and methodological, scientific and professional, and professional and applicative knowledge and methods in solving concrete problems within the selected field. In this segment of Doctoral dissertation, students investigate the problem, its structure and complexity and on the basis of the performed analyses draw conclusions on possible manner in its solving. Researching the literature, students are introduced to methods attended for creative solving of new tasks and the engineering practice in their solving. The objective of students` activity within this segment of research is to acquire necessary experience through solving complex problems and tasks and recognizing the possibility for applying previously acquired knowledge in practice.					
2. Educational outcomes (acquired knowledge):					
Enabling students to individually apply previously acquired knowledge from diverse areas already studied in order to observe the structure of the set problem and its systematic analysis for drawing conclusions on possible directions in its solving. Through individual usage of literature, students broaden their knowledge from the selected field and they investigate diverse methods and papers related to the similar fields. Thus, students develop the competence to perform analyses and identify problems within the set theme. Practical application of the acquired knowledge from diverse areas develops in students the ability to overview the place and the role of engineers in the selected field, the demand for cooperation with other professions and the team work.					
3. Course content/structure:					
It is formulated individually in accordance with the elaboration of the concrete Doctoral dissertation, its complexity and structure. Students read scientific literature, Doctoral dissertations by other students dealing with similar theme; they perform analyses in order to find solutions for a concrete task defined by the task of the Doctoral dissertation.					
4. Teaching methods:					
The supervisor of the Doctoral dissertation sets the dissertation task and delivers it to the student. The student has the obligation to elaborate the dissertation within the set theme defined by the Doctoral dissertation task, utilizing the literature proposed by the supervisor. During the elaboration of the Doctoral dissertation, the supervisor can provide additional instructions to the student direct them to certain literature and additionally direct them towards the elaboration of a quality Doctoral dissertation. During the study research work, the student has tutorials with the supervisor, and if needed, with other lecturers dealing with the problems in the field of the set dissertation task. Within the set theme, the student can also perform certain measuring, research, calculations, surveys and other researches, statistic data processing, if it is predicted by the task of the Doctoral dissertation.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Term paper		Yes	50.00	Oral part of the exam	Yes 50.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	grupa autora	časopisi sa liste Kobsona			sve
2,	grupa autora	časopisi i doktorske disertacije iz date problematike			sve


	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Table 5.2 Course specification

Course:		Doctoral Thesis - Realization and Defence of Thesis			
Course id:	DZR03				
Number of ECTS:	20				
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	20	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge about structure and form of writing the dissertation report after analysis, and other activities carried out within the assigned theme of Doctoral dissertation. By writing the Doctoral dissertation, students gain experience in writing papers within which it is necessary to describe the problem, implement methods and procedures and obtained results, as well as to give new scientific contribution to the science development and to the application of the scientific research in practice. In addition, the objective of writing and defense of the Doctoral dissertation is to develop student skills for independent paper preparation in a suitable form for the purpose of public presentation, as well as to respond to comments and questions related to the given topic.					
2. Educational outcomes (acquired knowledge):					
Training students for a systematic approach in solving the given problems, carrying out analyses, applying knowledge and accepting knowledge from other areas in order to find creative solutions for a given problem. Through independent studying and solving tasks in a given topic, they acquire the knowledge about the complexity of the problems in the field of their profession. Through elaboration of Doctoral dissertation, students gain certain experiences that can be applied in practice when solving problems in the field of their profession. The student acquires necessary experience on how to present the results of independent or team work in practice by preparing the results for public defense, by public defense, and by answering questions and complaints of the Commission.					
3. Course content/structure:					
It is individually formed in accordance with the needs and the field covered by a given Doctoral dissertation. In agreement with a mentor, a student makes the Doctoral dissertation in a written form in accordance with the rules provided by the Faculty of Technical Sciences. The student prepares and defends the written Doctoral dissertation in public, in agreement with the mentor and in accordance with the prescribed rules and procedures.					
4. Teaching methods:					
During the elaboration of the Doctoral dissertation, the student consults with his/her mentor, and if necessary with other teachers dealing within a sphere of the Doctoral dissertation. The student writes the Doctoral dissertation, and submits the bound copies to the Commission upon the approval of the Commission for assessment and defense. The Defense of the Doctoral dissertation is performed in public, and after the presentation, the student is obliged to orally answer the questions and comments.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory Points
Writing the PhD thesis		Yes	50.00	PhD thesis defence	Yes 50.00



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 06. Programme Quality, Contemporaneity and International Compliance**

The study programme is in accordance with current global scientific trends and profession, and it is comparable with similar international high education institutions.

The study programme of Mechatronics is designed in a comprehensive way and offers students latest scientific and professional knowledge in the field.

The study programme of Mechatronics is comparable to:

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

2. [http://www4.tu-ilmenau.de/studienplan/studienplan.php?stg=BA\\_Mechatronik](http://www4.tu-ilmenau.de/studienplan/studienplan.php?stg=BA_Mechatronik),

3. <http://www.engineering.uwaterloo.ca/departments.html>

<http://www.mechatronics.uwaterloo.ca/home.html>

<http://mme.uwaterloo.ca/~mechatro/>

The study programme of Mechatronics is formally and structurally in accordance with the adopted specific accreditation standards in terms of enrollment, study lasting, diploma issuing and ways of studying.



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 07. Student Enrollment**

In accordance with social needs and its resources, the Faculty of Technical Sciences enrolls a number of students to the Doctoral Academic Studies in Mechatronics either to the budget financing of studies or self-financing which is defined each year by a special decision of Educational-Scientific Council of the Faculty. Enrolment Commission consists of Head of doctoral studies of the Faculty and the Head of all doctoral study programmes at the Faculty.

The first year of doctoral studies may be enrolled by a person who has:

- the completed undergraduate academic and graduate academic studies in the field of mechanical engineering with at least 300 ECTS credits and grade point average not less than 8.00 on the undergraduate academic and graduate academic studies - Master or equivalent grade from other rating systems, or if one belongs to 20% of the best students in the generation; or
- the academic title of Master of Science in the scientific field of civil engineering and if the student has not obtained the PhD degree by earlier legislation within the period established by the law.
  - person who completed studies according to the regulations prior to the Law on higher education can enrol to doctoral studies under the same conditions as the person who holds a diploma of graduate studies – master of studies under the condition that this diploma is equivalent to at least 300 ECTS credits which is proved by a equivalency certificate.

Appropriate graduate academic master studies and scientific fields are determined for each study programme individually. In some exceptional situations enrolment may be allowed to other candidates taking differential exams. The decision on taking differential exams including the character of differential exam is made by the Commission for the enrolment of the study programme. On the basis of average grade and the length of studies, published scientific papers, the Commission for the enrolment forms a list of candidates who applied. The Commission can reach a decision on organizing additional test for candidates in the form of qualification exam. Advantage for budget financing have the candidates who work as research assistants at the Faculty and holders of scholarship of the Ministry of Science and The Provincial Secretariat for Science and Technological Development.

In addition, the candidate is required to know world languages and to have IT skills.

The passed examinations can be acknowledged or partially acknowledged to students of master studies or those with the master of science degrees whose knowledge was acquired by previously existing legislation with amendment which is done by the Commission for enrolment, provided that the candidate has not spent more than four (4) years on Master of science studies. During enrolment, the student and the Faculty conclude an agreement on the rights and obligations during studies.



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 09. Teaching Staff**

For the realization of the study programme there is a teaching staff with necessary professional and scientific qualifications, verified by the list of scientific papers and data on participation in national and international scientific and research projects. At least half of teachers participate in scientific and research projects. Teachers' competence is determined on the basis of scientific papers published in international magazines, where at least one paper has been published or accepted to be published in a magazine from the SCI list; scientific papers published in national magazines; papers published in proceedings from international scientific conferences; monographs; patents; textbooks; new products or significant improvements on the existing products.

It has been established that a supervisor cannot lead more than five Doctoral dissertation candidates simultaneously.

The supervisor has at least five scientific papers published or accepted to be published in scientific magazines on the given field. The selection of a supervisor is determined in such a manner that each supervisor ought to have at least five papers published in the magazines from the SCI list.

The number of teachers coincides with the demands of the study programme and depends on the number of courses they lecture and the number of classes at these courses. Out of the total number of necessary teachers is sufficient for all lectures at the study programme, and the teachers have on average 180 classes of active teaching (lectures, consultations, practice classes, practical work, etc) annually, that is 6 classes weekly.

Scientific and professional qualifications of the teaching staff relate to the educational and scientific field and the level of their participation. Each teacher has at least 10 references from the narrow scientific or professional field in which they lecture on the study programme.

No teacher has more than 12 classes per week. All data on teachers and assistants (CV, selections, and references) are available to the public. Students who do not fulfill requirements for enrollment to the second year of studies, and they achieve at least 15 ECTS they have an opportunity, with additional exam recognition, to continue with specialistic academic studies.

The right to take qualification exam for elaboration and defence of doctoral dissertation (Study and research work on theoretical basis of doctoral dissertation) has the student who registered the second year of studies and passed all required exams at the study programme for not more than 3 (three) years from the beginning of studying with relative average grade of at least 8.00 (eight 00/100).

The students who do not fulfil requirements for taking the theoretical basis for the doctoral dissertation have an opportunity, with recognition of exams, to continue studies at specialistic academic studies.



Study and research work on the Theoretical fundamentals of doctoral dissertation presents the qualification exam for elaboration of doctoral dissertation. The theoretical fundamentals can be taken as an examination (written or oral) according to chapters (topics) from at least three subjects of the study programme. The list of chapters (topics) for the examination is presented to the student by the Head of the study programme of the doctoral studies on his request within 14 days starting from the day of filing the request. The qualification examination is taken before the commission made of at least three members, which is on the suggestion of the Quality Commission of the study programme named by the Head of the doctoral studies at The Faculty of Technical Studies. Theoretical fundamentals at the doctoral studies, can on the request of the student, be taken not earlier than 30 days after the final examination and at the latest 12 months after the final exam.

Exceptionally, student who published a paper (accepted for printing) in a SCI journal (R51a, R51b and R52) is exempt from taking the examination and is awarded with 10. For the field of architecture and arts equivalents for defined by the regulations on doctoral academic studies of the faculty are recognized.

The examination at the doctoral studies can be taken not more than three times.

The final part of doctoral studies is the elaboration and defence of the doctoral dissertation.



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Science, arts and professional qualifications



Name and last name:	Buchmeister S. Borut		
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:	2008	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	1996	Faculty of Mechanical Engineering, University of Maribor - Maribor	Production Systems, Organization and Management
Magister thesis	1990	Faculty of Mechanical Engineering, University of Maribor - Maribor	Production Systems, Organization and Management
Bachelor's thesis	1986	Faculty of Mechanical Engineering, University of Maribor - Maribor	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.	M316	Production Systems	( G10) Geodesy and Geomatics, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
2.	IM1104	Strategic Management	(I20) Engineering Management, Undergraduate Academic Studies
3.	IM1106	Business Process Simulation	( I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
4.	IM1118	Business Productivity Tools	(I20) Engineering Management, Undergraduate Academic Studies
5.	HDOK4S	Selected chapters from automation of work processes	( I12) Industrial Engineering, Specialised Academic Studies
6.	I071B	Strateško upravljanje projektima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
7.	IM2101	Intelligent Enterprising and Effective Management	( M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
8.	IM2103	New technologies in engineering and management	( I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
9.	HDOK-4	Selected Chapters in Production Process Automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
10.	HDOKL4	Selected chapters from automation of work processes	( H00) Mechatronics, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	PANDŽA, Krsto, POLAJNAR, Andrej, BUCHMEISTER, Borut, THORPE, Richard. Evolutionary perspectives on the capability accumulation process. Int. j. oper. prod. manage., 2003, vol. 23, no. 8, str. 822-849. [COBISS.SI-ID 8111638], [JCR, WoS do 6. 12. 2011: št. citatov (TC): 9, čistih citatov (CI): 9, normirano št. čistih citatov (NC): 35, Scopus do 17. 6. 2012: št. citatov (TC): 11, čistih citatov (CI): 11, normirano št. čistih citatov (NC): 43]
2.	BUCHMEISTER, Borut, KREMLJAK, Zvonko, PANDŽA, Krsto, POLAJNAR, Andrej. Simulation study on the performance analysis of various sequencing rules. Int. j. simul. model., June/September 2004, vol. 3, no. 2/3, str. 80-89. [COBISS.SI-ID 9075990]
3.	PANDŽA, Krsto, POLAJNAR, Andrej, BUCHMEISTER, Borut. Strategic management of advanced manufacturing technology. Int. j. adv. manuf. technol., 2005, vol. 25, 3/4, str. 402-408. <a href="http://dx.doi.org/10.1007/s00170-003-1804-x">http://dx.doi.org/10.1007/s00170-003-1804-x</a> . [COBISS.SI-ID 9383190], [JCR, WoS do 6. 5. 2011: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 9, Scopus do 10. 9. 2012: št. citatov (TC): 14, čistih citatov (CI): 13, normirano št. čistih citatov (NC): 23]
4.	KREMLJAK, Zvonko, POLAJNAR, Andrej, BUCHMEISTER, Borut. Heuristični model razvoja proizvodnih zmogljivosti = A heuristic model for the development of production capabilities. Stroj. vestn., 2005, letn. 51, št. 11, str. 674-691. [COBISS.SI-ID 8659739], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 8, Scopus do 18. 6. 2012: št. citatov (TC): 7, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 9]
5.	TASIČ, Tadej, BUCHMEISTER, Borut, AČKO, Bojan. Razvoj naprednih metod za vodenje proizvodnih postopkov = The development of advanced methods for scheduling production processes. Stroj. vestn., 2007, letn. 53, št. 12, str. 844-857. [COBISS.SI-ID 12075030], [JCR, WoS do 6. 12. 2011: št. citatov (TC): 9, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 11, Scopus do 1. 8. 2012: št. citatov (TC): 9, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 11]



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>		
Representative references (minimum 5, not more than 10)			
6.	KREMLJAK, Zvonko, BUCHMEISTER, Borut. Uncertainty and development of capabilities, (DAAAM Publishing series, Management Science). Vienna: DAAAM International Publishing, 2006. X, 143 str., graf. prikazi. ISBN 3-901509-55-0. [COBISS.SI-ID 57398785]		
7.	POLAJNAR, Andrej, BUCHMEISTER, Borut, LEBER, Marjan. Proizvodni menedžment. Ponatis. V Mariboru: Fakulteta za strojništvo, 2005. VI, 415 str., 28 str. pril., ilustr., preglednice. ISBN 86-435-0379-7. [COBISS.SI-ID 54649089]		
8.	BUCHMEISTER, Borut, PANDŽA, Krsto, PALČIČ, Iztok. Idejna študija o ustanavljanju regionalnega logističnega centra za vzdrževanje in popravila vojaških in namenskih vozil. Maribor: Fakulteta za strojništvo, 2002. 28, 6 f. pril., ilustr. [COBISS.SI-ID 7612438]		
9.	PALČIČ, Iztok, BALAŽIC, Matej, MILFELNER, Matjaž, BUCHMEISTER, Borut. Potential of laser engineered net shaping (LENS) technology. Mater. manuf. process., 2009, vol. 24, no. 7/8, str. 750-753, doi: 10.1080/10426910902809776. [COBISS.SI-ID 13243670], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 6, čistih citatov (CI): 5, normirano št. čistih citatov (NC): 5, Scopus do 8. 8. 2012: št. citatov (TC): 7, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 6]		
10.	PALČIČ, Iztok, BUCHMEISTER, Borut, POLAJNAR, Andrej. Analysis of innovation concepts in Slovenian manufacturing companies. Stroj. vestn., 2010, vol. 56, no. 12, str. 803-810. <a href="http://www.svjme.eu/scripts/download.phpfile=/data/upload/2010/12/03_2010_083_Palcic_3k.pdf">http://www.svjme.eu/scripts/download.phpfile=/data/upload/2010/12/03_2010_083_Palcic_3k.pdf</a> . [COBISS.SI-ID 14634774], [JCR, WoS do 6. 11. 2012: št. citatov (TC): 7, čistih citatov (CI): 7, normirano št. čistih citatov (NC): 8, Scopus do 17. 10. 2012: št. citatov (TC): 8, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 9]		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		43	
Total of SCI(SSCI) list papers :		15	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> <span>1</span> <span>International : 1</span> </div>







	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

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



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		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
		Study Programme Accreditation - PhD Studies		
		DOCTORAL 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.	IM1523	Discrete Mathematics	( M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies	
13.	P216	Numerical Analysis	( P00) Production Engineering, Undergraduate Academic Studies	
14.	OM517	Numerical Analysis	( OM1) Mathematics in Engineering, Master Academic Studies	
15.	OML517	Numerical Analysis	( OM1) Mathematics in Engineering, Master Academic Studies	
16.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies	
17.	D0M24	Numerical Solutions of Differential Equations	( OM1) Mathematics in Engineering, Doctoral Academic Studies	
18.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( G10) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies	
19.	AID06	Graph theory	( F20) Engineering Animation, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)				
1.	N. Adzic, On the spectral solution for boundary value problem, ZAMM 70,(1990) 6, T647-T649.			
2.	V. Vrcelj, N. Adzic, Z. Uzelac: A numerical asymptotic solution for singular perturbation problems, International journal of computer mathematics, Vol.39, (1991) 229-238.			
3.	N. Adzic: Modified hermite polynomials in the spectral approximation for boundary layer problems, Bulletin of the Australian mathematical society, Vol.45, (1992) 267-276.<leng>			
4.	N. Adzic: Spectral approximation for single turing point problem, ZAMM72(1992)6, T621-T624.			
5.	N. Adzic: Nonclassical orthogonal polynomials and singularly perturbed problems, ZAMM73(1993) 7/8, T868-T871.			
6.	N. Adzic: Spectral approximation and asymptotic behaviour of boundary layer problems, ZAMM74(1994)6, T-553-T555.			
7.	N. Adzic, Z. Uzelac: A combination of spline and spectral approximation for a class of singularly perturbed problems, ZAMM78 (1998), S853-S854			
8.	Z. Uzelac, N. Adzic: The Approximate Solution for Problems with Nonlocal Boundary Conditions, ZAMM79 (1999), S881-S882			
9.	N. Adzic, Z. Uzelac: On spectral approximation for some two-dimensional singularly perturbed problems, ZAMM79 (1999), S851-S852			
10.	N. Adzic: On the spectral approximation for singularly perturbed problems,ZAMM 71(1991)6,T773-T776.			


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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :		5		
Total of SCI(SSCI) list papers :		10		
Current projects :		Domestic :	2	International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>	
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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



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

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 - PhD Studies			
		DOCTORAL 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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

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







	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </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 :	<div style="display: flex; justify-content: space-between;"> <span>1</span> <span>International : 1</span> </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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications



Name and last name:		Čuš -. Franci	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Proizvodni sistemi, organizacija i menadžment (menadžment inovacija i	
Academic carieer	Year	Institution	Field
Academic title election:	2009		Proizvodni sistemi, organizacija i menadžment (menadžment inovacija i promena)
PhD thesis	1988	Faculty of Mechanical Engineering - Maribor	Processes for Material Removal Processing
Magister thesis	1985	Faculty of Mechanical Engineering - Maribor	Processes for Material Removal Processing
Bachelor's thesis	1978	Faculty of Mechanical Engineering - Maribor	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	Z421	Operacioni menadžment(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
2.	II1053	Production Systems	( F00) Graphic Engineering and Design, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies
3.	IM1114	Energy Flows in the Enterprise	(I20) Engineering Management, Undergraduate Academic Studies
4.	ZR401A	Science on Work	( Z01) Safety at Work, Undergraduate Academic Studies
5.	HDOK4 S	Selected chapters from automation of work processes	( I12) Industrial Engineering, Specialised Academic Studies
6.	IMDR0S	Selected chapters in enterprise's design, organization and control	( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies
7.	ZR502	Occupational Risk Assessment	( Z01) Safety at Work, Master Academic Studies
8.	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
9.	IM2124	Production and Service Systems	( H00) Mechatronics, Master Academic Studies ( M50) Energy Management, Master Academic Studies
10.	IM2207	Technology management	(I20) Engineering Management, Master Academic Studies
11.	IM2215	Value engineering	(I20) Engineering Management, Master Academic Studies
12.	HDOK-4	Selected Chapters in Production Process Automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
13.	HDOKL4	Selected chapters from automation of work processes	( H00) Mechatronics, Doctoral Academic Studies
14.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
15.	ZRD27A	Operations management in the security and occupational safety	( Z01) Safety at Work, Doctoral Academic Studies
16.	ZRD28A	Selected topics in the science of occupational safety	( Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	ČUŠ, Franc, BALIČ, Jože. Optimization of cutting process by GA approach. Robot. comput.-integr. manuf.. [Print ed.], 2003, vol. 19, iss. 1/2, str. 113-121.		
2.	ČUŠ, Franc, MURŠEC, Bogomir. Databases for technological information systems. J. mater. process. technol.. [Print ed.], Dec. 2004, vol. 157/158, str. 75-81.		
3.	ČUŠ, Franc, ŽUPERL, Uroš, MILFELNER, Matjaž. Dynamic neural network approach for tool cutting force modelling of end milling operations. Int. j. gen. syst., October 2006, vol. 35, no 5, str. 603-618. [COBISS.SI-ID 10604310]		
4.	ČUŠ, Franc, MILFELNER, Matjaž, BALIČ, Jože. An intelligent system for monitoring and optimization of ball-end milling process. J. mater. process. technol.. [Print ed.], June 2006, vol. 175, iss. 1/3, str. 90-97.		
5.	ČUŠ, Franc, ŽUPERL, Uroš, KIKER, Edvard, MILFELNER, Matjaž. Adaptive controller design for feedrate maximization of machining process. J. Achiev. Mater. Manuf. Eng., Jul.-Aug. 2006, vol. 17, iss. 1/2, str. 237-240.		



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	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>			
Representative references (minimum 5, not more than 10)				
6.	ČUŠ, Franc, ŽUPERL, Uroš. Approach to optimization of cutting conditions by using artificial neural networks. J. mater. process. technol.. [Print ed.], 2006, vol. 173, iss. 3, str. 281-290.			
7.	ČUŠ, Franc, BALIČ, Jože, ŽUPERL, Uroš. Hybrid ANFIS-ants system based optimisation of turning parameters. J. Achiev. Mater. Manuf. Eng., Sep. 2009, vol. 36, iss. 1, str. 79-86.			
8.	ŠOSTAR, Adolf, ČUŠ, Franc. Vpliv toplotne obdelave na obdelovalnost materialov pri vrtanju. Stroj. vestn., 1983, let. 29, št. 10-12, str. 215-218. [COBISS.SI-ID 3324444]			
9.	ŠOSTAR, Adolf, ČUŠ, Franc. Načrtovanje preizkusov in izračun eksponentov za optimiranje odrezovanja. Stroj. vestn., 1984, let. 30, št. 9-10, str. 197-203. [COBISS.SI-ID 3324700]			
10.	ČUŠ, Franc. Odvisnosti in zakonitosti postopka čelnega freziranja. Stroj. vestn., 1986, 32, št. 4/6, str. 60-63. [COBISS.SI-ID 94468]			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	21			
Total of SCI(SSCI) list papers :	28			
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Delić D. Vlado	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.09.1989	
Scientific or art field:		Telecommunications and Signal Processing	
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1997	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1993	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1989	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK411	Digital Filters	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	Z413A	Acoustics and Noise Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	BM118B	Acoustics and Audio Engineering in Medicine	( BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK312	Acoustics and Audio Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK312L	Acoustics and Audio Engineering in Multimedia	( F10) Engineering Animation, Undergraduate Academic Studies
6.	EK422	Digital Audio Signal Processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EK452	Monitoring and Noise Protection	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	ETI27	Audio Engineering	( E02) Electronics and Telecommunications, Undergraduate Professional Studies
10.	ETI29	Monitoring and Noise Protection	( E02) Electronics and Telecommunications, Undergraduate Professional Studies
11.	ETI35	Digital Sound Processing	( E02) Electronics and Telecommunications, Undergraduate Professional Studies
12.	DE111S	Algorithms for Digital Signal Processing	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	DE212S	Selected Chapters in Acoustics and Audio Engineering	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
14.	DE512S	Human-Machine Speech Communication	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
15.	S0151	Application of Digital Signal Processing in Telecommunications	( S01) Postal Traffic and Telecommunications, Master Academic Studies
16.	SI037	Telecommunication Infrastructure of E-Business	( E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
17.	BMIM2A	Assistive Information and Communications Technologies	( BM0) Biomedical Engineering, Master Academic Studies
18.	EK422L	Digital Audio Signal Processing	( F20) Engineering Animation, Master Academic Studies
19.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
20.	S1596	Acoustics and Audio Engineering in Traffic	( S01) Postal Traffic and Telecommunications, Master Academic Studies
21.	DE111	Algorithms for Digital Signal Processing	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DE212	Selected Chapters in Acoustics and Audio Engineering	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



	UNIVERSITY OF NOVI SAD		
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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
23.	DE512	Human-Machine Speech Communication	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	"Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition", V. Delić, M. Bojanić, M. Gnjatović, M. Sečujski, S.T. Jovičić; Electronics and Electrical Engineering, ISSN 1392-1215, Vol. 18, No. 9, November of 2012, pp. 51-54, DOI:10.5755/j01.eee.18.9.2806		
2.	"Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy", I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379		
3.	"Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction", M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5		
4.	"A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models", B. Popović, M. Janev, D. Pekar, N. Jakovljević, M. Gnjatović, M. Sečujski, V. Delić; Applied Intelligence, Springer-Verlag N. York, Inc., ISSN 0924-669X, Volume 37, Number 3, Page 377-389, (2012) DOI: 10.1007/s10489-011-0333-9		
5.	"Automatska konverzija tekstualnih informacija u govor", M. Sečujski, V. Delić; - kumulativna naučnotehnička informacija - Monografska serija ISSN 1820-3418, Naučnotehničke informacije, ISBN 978-86-81123-25-6, Vol. XLVI, No. 4, Vojnotehnički institut, Beograd, 2011, 56 strana		
6.	"Stereo Presentation and Binaural Localization in a Memory Game for the Visually Impaired", V. Delić, N. Vujnović Sedlar; 2nd COST 2102 International Training School, Dublin, Ireland, 23-27.03.2009, Revised Selected Papers in Development of Multimodal Interfaces: Active Listening and Synchrony, Lecture Notes in Artificial Intelligence, LNAI; A. Esposito et al. (Eds.), Springer, Heidelberg, ISBN 978-3-642-12396-2, LNCS 5967, ISSN: 0302-9743, April 2010, pp. 354-363, DOI: 10.1007/978-3-642-12397-9		
7.	"Efficient ECG Modeling using Polynomial Functions", S. Jokić, V. Delić, Z. Perić, S. Krčo, D. Sakač; Electronics and Electrical Engineering, ISSN 1392-1215, No. 4(110), April of 2011, pp. 121-124		
8.	"Pattern Evaluation Tests of Software-Based Acoustic Measuring Systems", M. Stojiljković, V. Delić; 6th Forum Acusticum 2011, 27. June - 1 July, Aalborg, Denmark, European Acoustic Association, pp. 391-396, (Acta Acustica United with Acustica – Addendum, Vol. 97, No. 3, May/June 2011, ISBN: 978-84-694-1520-7, ISSN 1610-1928, European Acoustic Association		
9.	"Zbirka zadataka iz digitalnih telekomunikacija", V. Milošević, V. Delić, FTN&Stylos, 1996, p.189 i FTN, 2005, p.282		
10.	"Zbirka zadataka iz digitalne obrade signala", V. Delić, M. Sečujski, I. Radić, FTN, 2007, str. 176, (ISBN 978-86-7892-082-0)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		52	
Total of SCI(SSCI) list papers :		14	
Current projects :		Domestic :	4
		International :	0



	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES</p>	
	Mechatronics	

Science, arts and professional qualifications

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





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



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL 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







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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications



Name and last name:		Folić J. Radomir	
Academic title:		Emeritus Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.03.1980	
Scientific or art field:		Constructions in Civil Engineering	
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
PhD thesis	1983	Faculty of Civil Engineering - Beograd	Theory of Construction
Magister thesis	1974	Faculty of Civil Engineering - Zagreb	Theory of Construction
Bachelor's thesis	1963	Faculty of Civil Engineering - Beograd	Constructions in Civil Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	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
2.	GG505	Concrete Bridges	(G00) Civil Engineering, Master Academic Studies
3.	GS015	Scientific Research Method	( G10) Energy Efficiency in Buildings, Specialised Academic Studies
4.	A120S	Proces, principi i tehnike naučnog istraživanja-odabrana poglavlja	( A00) Architecture, Specialised Academic Studies
5.	GG531	Odabrana poglavlja zidanih konstrukcija	(G00) Civil Engineering, Master Academic Studies
6.	DGI002	Selected Chapters in Engineering Geodesy	( G10) Geodesy and Geomatics, Doctoral Academic Studies
7.	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
8.	A120	Proces, principi i tehnike naučnog istraživanja - odabrana poglavlja(uneti naziv na engleskom)	( A00) Architecture, Doctoral Academic Studies
9.	GD027	Process, principles and techniques of scientific research - selected chapters	( G00) Civil Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			



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	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>			
Representative references (minimum 5, not more than 10)				
1.	Folić, R. (1983): Spojevi i veze montažnih betonskih zgrada. U knjizi Montažni građevinski objekti, (Ed. B. Žeželj, A. Flašar) Ekonomika, Beograd, str. 117-167. (9 autorskih tabaka)			
2.	Folić, R. (1983): Statika konstrukcija - Zbirka rešenih zadataka. FTN IIG, Novi Sad, str. 1-486. II izdanje (1987). III izdanje Građevinska knjiga, Beograd (1991).			
3.	Folić, R., Tatomić, M. (1999): Sprengnute betonske konstrukcije-I deo. Građevinski kalendar, 1999. str. 289-386; II deo, Građevinski kalendar, 2001, str. 217-290			
4.	Folić, R. (1991): Classification of damage and its causes as applied to precast concrete buildings. Material and Structures. RILEM - Journal, Chapman & Hall, Vol. 24, pp. 276-285.			
5.	Folić, R., Ivanov, D. (1991): In situ behaviour of concrete structures deterioration of concrete, influence of earthquake and a fire in Diagnosis of Concrete Structures - State of the Art Report, Ed. by T. Javor, Expertcentrum, Bratislava, pp. 135-146.			
6.	Folić, R. (1985): Analiza aktivne širine ploče i graničnih stanja kod elemenata od armiranog i prethodno napregnutog betona. FTN IIG Posebno izdanje 7, Novi Sad, str. 1-193.			
7.	Folić, R., Radonjanin, V. (1998): Experimental research on polymer modified concrete, Materials Journal, ACI, VOL. 95 No. 4, July/August 1998, pp.463-470.			
8.	Folić, R. (1991): A classification of damage to concrete buildings in earthquakes, illustrated by examples. Material and Structures, RILEM - Journal, Chapman & Hall, Vol. 24, pp. 286-292.			
9.	Javor, T., Naus, D.J., Folić, R., Zakić, B.: (1992): Diagnosis of Concrete Structures. RILEM - Journal Materials and Structures, Chapman & Hall, Vol. 25, pp. 437-440.			
10.	Folić, R., Radonjanin, V. (1998): Experimental research on polymer modified concrete, Materials Journal, ACI, VOL. 95 No. 4, July/August 1998, pp.463-470.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	11			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	2	International :	1



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

Name and last name:		Gilezan K. Silvia	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.04.1984	
Scientific or art field:		Mathematics	
Academic carier	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1993	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1988	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1981	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.	GH404	Mathematical Statistics	(G00) Civil Engineering, Master Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
2.	GI303B	Probability and Mathematical Statistics	( G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	IAM003	Formal Mathematical Models	( F10) Engineering Animation, Undergraduate Academic Studies
4.	S011	Mathematics 1	( S00) Traffic and Transport Engineering, Undergraduate Academic Studies ( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
5.	Z203	Statistical Methods	( Z01) Safety at Work, Undergraduate Academic Studies ( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	IM1012	Probability and Statistics	( I10) Industrial Engineering, Undergraduate Academic Studies ( I20) Engineering Management, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies
7.	OM506	Semantics of Programming Languages	( OM1) Mathematics in Engineering, Master Academic Studies
8.	OM507	Logic in Computer Science	( OM1) Mathematics in Engineering, Master Academic Studies
9.	OM513	Introduction to Functional Programming Languages	( OM1) Mathematics in Engineering, Master Academic Studies
10.	OML506	Semantics of programming languages	( OM1) Mathematics in Engineering, Master Academic Studies
11.	OML507	Logic in computer science	( OM1) Mathematics in Engineering, Master Academic Studies
12.	OML513	Introduction to Functional Programming Languages	( OM1) Mathematics in Engineering, Master Academic Studies
13.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
14.	GH404	Mathematical Statistics	(G00) Civil Engineering, Master Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
15.	SD0M06	Logic in Computer Science	( G10) Geodesy and Geomatics, 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 - PhD Studies</h2>					
DOCTORAL ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
16.	MPK001	Statistical and Numerical Methods	( MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies		
17.	D0M05	Semantics of Programming Languages	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
18.	D0M06	Logic in Computer Science	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
19.	D0M11	Models of Computation	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
20.	D0M12	Introduction to Functional Programming Languages	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
21.	D0M13	Theory of Mobile Processes	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
22.	D0M14	Process Algebra	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
23.	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		
24.	AID05	Theory of Mobile Processes	( F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	"Inhabitation in lambda calculus with intersection and union types", Journal of Logic and Computation 6 (1993) 671-685, Oxford University Press				
2.	"Characterizing strong normalization in the Curien-Herbelin symmetric lambda calculus: extending the Coppo-Dezani heritage, (sa D.Dougherty, P.Lescanne) Theoretical Computer Science 2007				
3.	"Separating Points by Parallel Hyperplanes " (sa J. Pantovic, J. Zunic), IEEE Transactions of Neural Networks 18(5) (2007) 1356-1363				
4.	"Lambda terms for natural deduction, sequent calculus and cut elimination" (sa H.P.Barendregt), Journal of Functional Programming, 10 (2000) 121-134.				
5.	"Confluence of untyped lambda calculus via simple types" (with V.Kuncak), ICTCS'01, Lecture Notes in Computer Science 2201, 38-49.				
6.	"Full intersection types and topologies in lambda calculus", Journal of Computer and System Sciences, 62 (2001) 1-14.				
7.	"Behavioural inverse limit lambda models" (sa M. Dezani-Ciancaglini, S. Likavec), Theoretical Computer Science Vol 316/1-3 (2004) 49-74.				
8.	"Strong normalization of the classical sequent calculus" (sa D. Dougherty, P. Lescanne, S.Likavec), Lecture Notes in Computer Science 3835 (2005) 169-183.				
9.	"Security types for dynamic web data" (sa M.Dezani-Ciancaglini, J. Pantovic), Trustworthy Global Computing, TGC'06, Lecture Notes in Computer Science 4661 (2007) 263-280.				
10.	Zbirka rešenih zadataka iz statistike (sa Z.Lužanin, Z.Ovcin, Lj.Nedović, T.Grbić, B.Mihailović) 2005				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :		325			



	<p>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p><b>Study Programme Accreditation - PhD Studies</b></p> <p>DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>				
Total of SCI(SSCI) list papers :	17				
Current projects :	Domestic :	2	International :	4	

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>	
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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





	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
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.	Glavardanos V., Maretić R., Grahovac N.: Buckling of a twisted and compressed rod supported by Cardan joints , European Journal of Mechanics - A: Solids, 2009, Vol. 28, pp. 131-140, ISSN 0997-7538		
4.	N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180		
5.	Grahovac N., Žigić M.: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008		
6.	Žigić M., Grahovac N.: Dynamical behavior of a polymer gel during impact. Fractional derivative viscoelastic model, 3. International Congress of Serbian Society of Mechanics, Vlasinsko jezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6, UDK: 531/534(082)		
7.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, 4. IFAC Workshop on Fractional Differentiation and Its Applications, Badajoz, 18-20 Oktobar, 2010		
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)		
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165-172, ISBN 978-86-909973-0-5, UDK: 531/534(082)		
10.	Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov's Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		5	
Total of SCI(SSCI) list papers :		3	
Current projects :		Domestic :	1 International : 0







	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

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



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


	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>		
Representative references (minimum 5, not more than 10)			
2.	Nedović, Lj., Ralević, N. M., Grbić, T.,: " Large deviation principle with generated pseudo measures", Fuzzy sets and systems, 2005, No. 105, 65-76		
3.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Pseud-Riemann-Stieltjes integral ", Information Sciences 179, 2009, 2923-2933		
4.	M. Štrboja, T. Grbić, I. Štajner-Papuga, G. Grujić, S. Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions, FSS, doi:10.101016/j.fss.2012.07.011		
5.	Grbić, T., Pap, E., : "Generalization Of Portamnteau theorem with respect to the pseudo-weak convergence of random closed sets", Theory of Probability and its Applications, 2009, 97-115		
6.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292		
7.	T. Grbić, S. Medić, I. Štajner-Papuga, T. Došenović, Inequalities of Jensen and Chebyshev type for interval-valued measures based on pseudo-integrals. In: Intelligent Systems: Models and Applications, E. Pap, Ed., Springer-Verlag, pp 23-41, DOI:10.1007/978-3-642-33959-2_2		
8.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Riemann-Stieltjes type integral based on generated pseudo-operations", NS J. Mathe., Vol. 36, No. 2, 111-124		
9.	Nedović, Lj., Grbić, T., "The pseudo-probability", Journal of Electrical Engineering, 2002, Vol. 53, No. 12/s, 27-30		
10.	Mihailović, B., Nedović, T., Grbić, T., "The induced Sugeno integral-based operator w.r.t. bi-fuzzy measures", Journal of Electrical engineering, Vol. 54, No. 12/s, 76-79		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		17	
Total of SCI(SSCI) list papers :		6	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> <span>2</span> <span>International : 0</span> </div>

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

Name and last name:		Grković R. Vojin	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.06.1994	
Scientific or art field:		Thermal Energetics and Thermotechnics	
Academic carier	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Thermal Energetics and Thermotechnics
PhD thesis	1984	Faculty of Mechanical Engineering - Beograd	Mechanical Engineering
Magister thesis	1974	Faculty of Mechanical Engineering - Beograd	Mechanical Engineering
Bachelor's thesis	1970	Faculty of Mechanical Engineering - Beograd	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EOS38	Energetski menadžment	( E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
2.	M3302	Thermoenergy Plants	( M30) Energy and Process Engineering, Undergraduate Academic Studies
3.	M3405	Thermal Turbines 1	( M30) Energy and Process Engineering, Undergraduate Academic Studies
4.	M3501	Refrigeration Devices	( M30) Energy and Process Engineering, Undergraduate Academic Studies
5.	Z206	Alternative Power Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z206A	Alternative Energy Sources	( Z01) Safety at Work, Undergraduate Academic Studies
7.	ZOI312	Thermal Power Plants	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	ZOI31A	Thermal power plants	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
9.	M211	Measurement and Regulation	( M30) Energy and Process Engineering, Undergraduate Academic Studies ( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
10.	M3495	Therma Energy Ekuipment	( M30) Energy and Process Engineering, Undergraduate Academic Studies
11.	I938	Energy and Society	( M50) Energy Management, Master Academic Studies
12.	M3505	Processes and Constructions of Multistage Turbine	( M30) Energy and Process Engineering, Master Academic Studies
13.	I939	Merenje, nadzor i upravljanje	( M50) Energy Management, Master Academic Studies
14.	M3503	Dinamika i modeliranje termoeenergetskih postrojenja(uneti naziv na engleskom)	( M30) Energy and Process Engineering, Master Academic Studies
15.	M3515	Energy Systems	( M30) Energy and Process Engineering, Master Academic Studies ( M50) Energy Management, Master Academic Studies
16.	M5022	Renewable energy sources	( M50) Energy Management, Master Academic Studies
17.	M5025	Energy audits	( M50) Energy Management, Master Academic Studies
18.	DM216	Energy Systems	( M00) Mechanical Engineering, Doctoral Academic Studies
19.	DM217	Energy Management in Idustry	( M00) Mechanical Engineering, Doctoral Academic Studies
20.	DM219	Energy Politics	( M00) Mechanical Engineering, Doctoral Academic Studies
21.	DM302	Engineering Experimental Methods	( H00) Mechatronics, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies
22.	DM310	Mathematical Process Modelling	( M00) Mechanical Engineering, Doctoral Academic Studies
23.	DM318	Contemporary Methods for Turbomachine Design	( M00) Mechanical Engineering, Doctoral Academic Studies
24.	DM319	Optimization of Power Machine and Thermal Equipment	( M00) Mechanical Engineering, Doctoral Academic Studies
25.	DM333	Renewable Energy Resoruces	( M00) Mechanical Engineering, Doctoral Academic Studies
26.	DM334	Optimization of Energy Systems Operation	( M00) Mechanical Engineering, Doctoral Academic Studies



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Representative references (minimum 5, not more than 10)			
1.	Grković V.: "Energy-Efficiency Improvements by Joint Operation of Two DH Systems Using Old Condensing Turbines", ENERGY, the International Journal, Vol.22, (1997), No. 11, pp. 1099-1102.		
2.	Grković V.: "Selection of the Optimal Extraction Pressure for Steam from a Condensation-Extraction Turbine", ENERGY, the International Journal, Vol.15, (1990) No. 5, pp. 459-465.		
3.	Grković V.: "Optimisations for District Heating of Belgrade from the Kolubara Energy and Industrial Complex", ENERGY, the International Journal, Vol. 14, (1989) No.11, pp. 747-756.		
4.	Grković V.: "Optimizacija parametara otpora u kondenzacionih turbin s promežutočnim otporom para", TEPLOENERGETIKA, 1989, No. 6, s. 72-75.		
5.	Grković V.: "Simulation stationärer Betriebszustände von Kondensationsturbinen mit Fernwärmeauskoppelung", BWK, 39, (1987), No. 7/8, S. 349.		
6.	Grković V.: "Mathematisches Modell zur Optimierung des Auslegungsentnahmedruckes an der einer Kondensationsturbine mit Fernwärmeauskoppelung", FERNWÄRME INTERNATIONALE FWI, Vol. 20, (1991), Nr. 11, S. 616-626.		
7.	Grković V. and Nedeljković Lj.: "Possibilities and Limitations of Fracture Mechanics Methods in Fitness-for-Purpose Evaluation of a Turbine Rotor with a Large Ultrasonic Indication Zone", STRENGTH OF MATERIALS, the International Journal, 1995, No. 1-2, pp.39-52.		
8.	Grković V.: "A Method for Calculation of Forces Acting on the Gas Turbine Blades with Film and Effusion Cooling", XIV Brazilian Congress of Mechanical Engineering, Obed Plaza Hotel Convention Center - Bauru - SP Brazil, Dec. 08-12th 1997, Proceedings (on CD ROM), Paper Code 1100.		
9.	Grković V.: " Tehnološke osnove regulisanja parnih turbina za spregnutu proizvodnju električne i toplotne energije", Futura-publikacije, Novi Sad, 1995, ISBN 86-7188-001-X.		
10.	Grković V.: A New Approach in CHP Steam Turbines Thermodynamic Cycles Computations, Thermal Science, 2012, Vol. 16, No 2, ISSN 0354-9836.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		12	
Total of SCI(SSCI) list papers :		5	
Current projects :		Domestic :	International :
		1	1



	<b>UNIVERSITY OF NOVI SAD</b> FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

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





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



	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></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 career	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 control and application of MEMS	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies







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

Name and last name:		Katalinić -, Branko	
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:	2008	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1983	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Magister thesis	1979	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
Bachelor's thesis	1976	Faculty of Mechanical Engineering and Naval Architecture - Zagreb	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	IM1213	Globalization and new business models	(I20) Engineering Management, Undergraduate Academic Studies
2.	HDOK4S	Selected chapters from automation of work processes	( I12) Industrial Engineering, Specialised Academic Studies
3.	IMDR0S	Selected chapters in enterprise's design, organization and control	( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies
4.	IIDR5S	Advanced Engineering Technologies	( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( M50) Energy Management, Master Academic Studies
5.	IIDS9	Effective Production and Service Systems	( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies
6.	IM2103	New technologies in engineering and management	( I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
7.	HDOK-4	Selected Chapters in Production Process Automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
8.	HDOKL4	Selected chapters from automation of work processes	( H00) Mechatronics, Doctoral Academic Studies
9.	IMDR0	Science of Industrial Engineering and Management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
10.	IMDR31	Effective Production and Service Systems	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
11.	IMDR57	Strategic Planning and Designing Procedures and Systems at the End of Product Lifecycle	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	B. Katalinic, J. Balic, I. Pahole: "Scheduling of Complex Flexible Manufacturing Systems-Methodology Design"; STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING Volume: 44 Issue: 5-6 Pages: 168-174, Published: MAY-JUN 1998		
2.	B. Katalinic: "Bionic Assembly Systems: Selforganizing Complex Flexible Assembly System"; Acta Mechanica Slovaca, Vol. 6 (2002), No. 2/2002; pp. 15 - 20.		
3.	B. Ljoljic, B. Katalinic, K. Stuja, V. Kordic: "Simulation of Complex Flexible Assembly System"; Acta Mechanica Slovaca, Vol.6 (2002), 2/2002; pp. 117 - 122		
4.	B. Ljoljic, B. Katalinic, K. Stuja: "Optimisation of Flexible Assembly System Using Simulation"; International Journal of Simulation Modelling, Vol. 1 (2002), No 1/2002; pp. 16 - 22.		
5.	A. Lazinica, B. Katalinic: "Bionic assembly system: new concept of self-organising multirobot system"; International Journal of Automation and Control, Volume 1, Number 1 / 2007; Pages: 16 – 27.		
6.	B. Katalinic, V. Kordic: "Integration of Subordination and Self Organisation in Working Scenarios of Bionic Assembly System"; in: "DAAAM International Scientific Book 2003", B. Katalinic (Hrg.); herausgegeben von: DAAAM International Vienna; DAAAM International Vienna, Wien, 2003, (eingeladen), ISBN: 3-901-509-36-4, pp. 319 - 330.		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>		
Representative references (minimum 5, not more than 10)			
7.	B. Katalinic, A. Lazinica: "Autonomous mobile robots in assembly applications"; in: "DAAAM International Scientific Book 2005", DAAAM Internaitonal Vienna; DAAAM International Vienna, Vienna, 2005, (eingeladen), ISBN: 3-901509-43-7, pp. 323 - 332.		
8.	V. Malisa, B. Katalinic: "Next Generation of Production Systems: Original Concept of Selforganizing Production Systems"; Vortrag: Eight International Conference on Manufacturing & Management, Gold Coast, Queensland, Australia (eingeladen); 08.12.2004 - 10.12.2004; in: "Eight International Conference on Manufacturing Management Proceedings", (2004), ISBN: 0-9578296-1-2; pp. 1 - 14.		
9.	A. Lazinica, B. Katalinic: "Design of Transport Mobile Robot Behavior in Self-Organising Assembly System"; IEEE/ASME International Conference on Advanced Intelligent Mechatronics - AIM 2005, Monterey, California, USA (eingeladen); 24.07.2005 - 28.07.2005; in: "Proceedings of 2005 IEEE/ASME International Conference on Advanced Intelligent Mechatronics - AIM 2005", (2005), ISBN: 0-7803-9046-6; S. 100 - 105.		
10.	B. Katalinic, V. Kordic: "Bionic Assembly System: Concept, Structure and Function"; 5th International Conference on Integrated Design and Manufacturing in Mechanical Engineering, Bath, United Kingdom (eingeladen); 05.04.2004 - 07.04.2004; in: "Proceedings of 5th International Conference on Integrated Design and Manufacturing in Mechanical Engineering", (2004).		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		2	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> <span>0</span> <span>International : 0</span> </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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Katić A. Vladimir	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.1978	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic carier	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1978	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EE305	Power Electronics 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	Z107	Electrical Engineering, Environment and Protection	( Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EE431	Renewable Sources and Small Power Plants	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EZ300	Clean Electrical Energy Sources	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	EZ400	Clean Energy Sources Design	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
8.	DE209S	Energy Converters in Renewable Energy Sources	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE413S	Integration of Distributed Energy Resources	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE505S	Power Quality in Distribution Networks	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	DE506S	Renewable Electrical Energy Sources	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
12.	DE509S	Effects of Power Converters on Network and Environment	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
13.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	S0I51Ž	Electrical Substation and Electric Traction	( S00) Traffic and Transport Engineering, Master Academic Studies
16.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	EE564	Distributed Energy Resources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
18.	ZCM02	Clean technologies for electrical vehicles	( ZC0) Clean Energy Technologies, Master Academic Studies
19.	ZCM08	Renewable and Distributed Electrical Energy Sources	( ZC0) Clean Energy Technologies, Master Academic Studies
20.	DE108	FACTS Devices and Electric Power Quality	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE113	Application of Power Electronics in Power Systems	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE209	Energy Converters in Renewable Power Sources	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

		UNIVERSITY OF NOVI SAD		
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
		<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
List of courses being held by the teacher in the accredited study programmes				
	ID	Course name	Study programme name, study type	
23.	DE413	Integration of Distributed Energy Resources	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
24.	DE505	Power Quality in Distribution Networks	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
25.	DE506	Renewable Electrical Energy Sources	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
26.	DE509	Effects of Power Converters on Network and Environment	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies	
27.	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	
28.	MSID04	Present State in the Field	( M40) Technical Mechanics, Doctoral Academic Studies	
29.	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.	Vladimir Katić: "Kvalitet električne energije – viši harmonici", Univerzitet u Novom Sadu - Fakultet tehničkih nauka, Edicija Tehničke nauke - Monografije, Br. 6, Novi Sad, 2002., ISBN 86-80249-57-2.			
2.	Vladimir Katić: "Energetska elektronika - Zbirka rešenih zadataka", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 66, Novi Sad, 1998, tiraž 500 primeraka, strana 430, Pomoćni udžbenik, ISBN 86-499-0017-8.			
3.	Vladimir Katić, Darko Marčetić, Dušan Graovac: "Energetska elektronika – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija Univerzitetski udžbenik, Broj 124, Novi Sad, 2000, tiraž 300 primeraka, strana 85, Pomoćni udžbenik, ISBN 86-499-0081-X.			
4.	Vladimir Katić, Vlado Porobić, Darko Marčetić: "Primena mikroprocesora u energetici – Praktikum laboratorijskih vežbi", Univerzitet u Novom Sadu-Fakultet tehničkih nauka, Edicija: Tehničke nauke - Udžbenici, Broj 149, Novi Sad, Dec. 2006, tiraž 300 primeraka, strana 122, Pomoćni udžbenik, ISBN 86-7892-013-0.			
5.	Vladimir Katić: „Upravljanje energetskim pretvaračima“, Fakultet tehničkih nauka – WUS, Novi Sad, 2006, tiraž 20 primeraka, str.175, Skripta.			
6.	Dušan Graovac, Vladimir Katić, Alfred Rufer: "Power Quality Problems Compensation with Universal Power Quality Conditioning System", IEEE Transaction on Power Delivery, USA, ISSN 0885-8977, Vol.22, No.2, April 2007, pp.968-976.			
7.	Vladimir Katić, Jovan Knežević, Dušan Graovac: "Application-Oriented Comparison of the Methods for AC/DC Converter Harmonics Analysis", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.50, No.6, December 2003, pp.1100-1108.			
8.	Vladimir Katić, Dušan Graovac: "A Method for PWM Rectifier Line Side Filter Optimization in Transient and Steady States", IEEE Transaction on Power Electronics, USA, ISSN 0885-8993, Vol.17, No.3, May 2002, pp.342-352.			
9.	Dušan Graovac, Vladimir Katić: "On-Line Control Of Current Source Type Active Rectifier Using Transfer Function Approach", IEEE Transaction on Industrial Electronics, USA, ISSN 0278-0046, Vol.48, No.3, June 2001, pp.526-535.			
10.	Vladimir Katić: "Modern Power Electronics Technologies for Wind Power Plants", Invited Paper, Electronics/Elektronika, Banja Luka (BIH-R.Srpska), Vol.10, No.2, Dec.2006, YU ISSN 1450-5843, pp.3-9.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :			122	
Total of SCI(SSCI) list papers :			19	



	UNIVERSITY OF NOVI SAD					
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
	Study Programme Accreditation - PhD Studies					
DOCTORAL ACADEMIC STUDIES					Mechatronics	
Current projects :		Domestic :		5	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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

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



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



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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

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



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

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

Name and last name:		Kovačević M. Ilija	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1972	
Scientific or art field:		Mathematics	
Academic career	Year	Institution	Field
Academic title election:	1990	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Mathematics - Beograd	Mathematical Sciences
Magister thesis	1975	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1971	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E212	Mathematical Analysis 1	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies ( SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E102	Mathematical Analysis 1	( ES0) Power Software Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E102A	Mathematical Analysis 1	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies
6.	OM501	Functional Analysis	( OM1) Mathematics in Engineering, Master Academic Studies
7.	OML501	Functional Analysis	( OM1) Mathematics in Engineering, Master Academic Studies
8.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
9.	I004/S	Statistical Quantitative Methods	( I20) Engineering Management, Specialised Professional Studies ( IB0) Engineering Management - MBA, Specialised Professional Studies
10.	GS012	Selected Chapters in Mathematics	( G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	MPK001	Statistical and Numerical Methods	( MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
12.	SDOM30	Probability, Statistics and Theory of Engineering Experiment	( Z00) Environmental Engineering, Specialised Academic Studies
13.	D0M01	Functional Analysis 1	( OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M19	Functional Analysis 2	( OM1) Mathematics in Engineering, Doctoral Academic Studies





		UNIVERSITY OF NOVI SAD			
FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
Study Programme Accreditation - PhD Studies					
DOCTORAL 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.	DOM30	Probability, Statistics and Theory of Engineering Experiment	( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies		
16.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( G10) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	I.Kovačević, Some properties of Mn subsets and almost closed mappings, Indian J.pure appl. Math., 27(9), 1996., 875-881.				
2.	I.Kovačević, On almost closed mapping, paracompactness and partial equivalence relations, Indian Journal of Pure and Applied mathematics, 25(9), 1994., 949-954.				
3.	I.Kovačević, On alfa-Hausdorff subsets, almost closed mappings and almost upper semicontinuous decomposition, Indian Journal of Pure and Applied mathematics 20 (4) 1989., 334-340.				
4.	Kiurski J., Oros I., Ralević N., Kovačević I., Adamović (Majkić) S., Krstić J., Čomić L.: Cluster and principal component analysis in the assessment of fountain solution quality, Carpathian Journal of Earth and Environmental Sciences, 2013, Vol. 8, No 1, pp. 19-23, ISSN 1842-4090				
5.	N. Adžić, I. Kovačević, V. Marić, V. Ungar, Matematička analiza 2, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 1996., 1-299.				
6.	I. Kovačević, N. Ralević, Funkcionalna analiza, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje) 2004., 1-203.				
7.	I. Kovačević, N. Ralević, B. Carić, V. Marić, M. Novković, S. Medić, Matematička analiza 1- uvodni pojmovi i granični procesi, (Ponovljeno i dopunjeno izdanje), FTN (Edicija tehničke nauke-udžbenici) Novi Sad, 2012, 1-155.				
8.	I. Kovačević, V. Marić, M. Novković, B. Carić, N. Ralević, S. Medić, Matematička analiza 1 - diferencijalni i integralni račun, obične diferencijalne jednačine (Ponovljeno i dopunjeno izdanje), FTN (Edicija tehničke nauke-udžbenici), Novi Sad, 2012., 1-280.				
9.	I. Kovačević, Algebra, Naučna knjiga, Beograd, 1990., 1-116.				
10.	M. Novković, B. Carić, I. Kovačević, Zbirka rešenih zadataka iz verovatnoće i statistike, FTN (Edicija tehničke nauke-udžbenici), Novi Sad, (Ponovljeno i dopunjeno izdanje) 2012., 1-169.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			28		
Total of SCI(SSCI) list papers :			7		
Current projects :			Domestic :	3	International : 2




	<p style="text-align: center;">UNIVERSITY OF NOVI SAD</p> <p style="text-align: center;">FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p style="text-align: center;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>		
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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.		



		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation - PhD Studies			
		DOCTORAL 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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>	
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Science, arts and professional qualifications



Name and last name:		Kozmidis-Luburić F. Uranija	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1975	
Scientific or art field:		Physics	
Academic career	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1988	Faculty of Sciences - Novi Sad	Physical Science
Magister thesis	1986	Faculty of Physics - Beograd	Physical Science
Bachelor's thesis	1974	Faculty of Sciences - Novi Sad	Physical Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	EOS06	Physics	( E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
3.	S014	Physics	( S00) Traffic and Transport Engineering, Undergraduate Academic Studies ( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	A401	Architectural Physics	( A00) Architecture, Undergraduate Academic Studies
5.	DZ01FS	Selected Chapters in Physics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
6.	DZ01F	Selected Chapters in Physics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( 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.	U.F.Kozmidis-Luburić and B.S.Tošić, "NON-LINEAR OPTICAL EFFECTS AND THE DIELECTRIC PROPERTIES OF CRYSTALS", Physica B 112, 331(1982)		
2.	D.Mirjanić, U.F.Kozmidis-Luburić, M.M.Marinković and B.S.Tosić, "COMBINED EFFECT OF EXCITATION-EXCITATION AND EXCITATION-PHONON INTERACTION ON CRYSTALS DIELECTRIC PROPERTIES", Can. J. Phys. 60, 1838(1982)		
3.	U.F. Kozmidis-Luburić and B.S. Tošić, "KINEMATICAL INTERACTION OF OPTICAL EXCITATION AND CONSEQUENCES", Physica A 153, 266(1988)		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>		
Representative references (minimum 5, not more than 10)			
4.	Lj. Budinski-Petković and U.Kozmidis-Luburić, "J AMING CONFIGURATIONS FOR IRREVERSIBLE DEPOSITION ON A SQUARE LATTICE", Physica A 236, 211(1997)		
5.	Lj. Budinski-Petković and U. Kozmidis-Luburić, "RANDOM SEQUENTIAL ADSORPTION ON A TRIANGULAR LATTICE", Physical Review E 56, 6904(1997)		
6.	V.Sajfert,B.S.Tošić,M.Marinković and U.F.KOZMIDIS-LUBURIĆ,"SURFACE DEFORMATION IN FILMS AND EXCITON CONCENTRATION", Physica A 166, 430(1990)		
7.	B.S.Tošić, Lj.Mašković, U. F. KOZMIDIS-LUBURIĆ, V.Jovovic and G. Davidovic, "Transition FROM THE DEFORMED STRUCTURE TO THE STATISTICALLY EQUIVALENT IDEAL STRUCTURE AND AN ESTIMATE OF THE BASIS PHYSICAL CHARACTERISTICS OF THE DEFORMED STRUCTURE", Physica A 216, 478(1995)		
8.	V.Jovović, G.Davidović, B.S.Tošić,Lj.Mašković, U.F.KOZMIDIS-LUBURIĆ and D.Čirić,"MASS DISTRIBUTION IN HETEROGENEOUS STRUCTURES", Physica A 223,263(1996)		
9.	Lj. Budinski-Petković and U. KOZMIDIS-LUBURIĆ, "IRREVERSIBLE DEPOSITION ON DISORDERED SUBSTRATES: LINE SEGMENTS ON A SQUARE LATTICE", Physica A 245,261(1997)		
10.	Lj. Budinski-Petković and U. KOZMIDIS-LUBURIĆ, "IRREVERSIBLE DEPOSITION OF DIRECTED SELF-AVOIDING RANDOM WALKS ON A SQUARE LATTICE", Physica A 262,388(1999)		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		68	
Total of SCI(SSCI) list papers :		23	
Current projects :		Domestic :	<div style="display: flex; justify-content: space-between;"> <span>1</span> <span>International : 0</span> </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>		
	<h2 style="margin: 0;">Study Programme Accreditation - PhD Studies</h2> <p style="margin: 0;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>		

Science, arts and professional qualifications

Name and last name:		Kozmidis-Petrović F. Ana	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.09.1975	
Scientific or art field:		Physics	
Academic carier	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1984	Faculty of Sciences - Novi Sad	Physics
Magister thesis	1980	Faculty of Mathematics - Beograd	Physical Science
Bachelor's thesis	1972	Faculty of Sciences - Novi Sad	Physical Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	GG06	Civil Engineering Physics	( G00) Civil Engineering, Undergraduate Academic Studies
3.	M101	Technical Physics	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies ( M30) Energy and Process Engineering, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies ( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	ZR440	Influence of radiation on health and occupational safety	( Z01) Safety at Work, Undergraduate Academic Studies
5.	ZC008	Technical physics	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	DZ01FS	Selected Chapters in Physics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
7.	SZD017	Solid Materials in the Environment	( Z00) Environmental Engineering, Specialised Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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.	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		
9.	FDS141	Selected Chapters in Colour Management	(F00) Graphic Engineering and Design, Doctoral Academic Studies		
10.	ZD017	Solid Materials in the Environment	(Z00) Environmental Engineering, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	D. M. Petrović, A. F. Petrović, V. M. Leovac, S. R. Lukić: Thermal decomposition of Cu(II) complexes with salicylaldehyde S-methylthiosemicarbazone, Journal of Thermal Analysis, 42, 1165-1170, 1994.				
2.	S.R. Lukić, D. M. Petrović, A. F. Petrović, F. Skuban, I.I. Turyanitsa: Tendency towards crystallization of Ge-As-Te system glasses, Journal of Materials Science Lett., 15,.				
3.	A. F. Petrović, S. R. Lukić, D. M. Petrović, E. Z. Ivegeš, V. M. Leovac: Metal complex with pyrazole derived ligands. Part IV. Thermal decomposition of Cobalt(II) complexes with 3(5)-amino-4-acetyl 5(3) methylpyrazole, Journal of Thermal Analysis, 47, 879-886,				
4.	S. R. Lukić, D. M. Petrović, A. F. Petrović: Effect of copper on conductivity of amorphous AsSe <sub>2</sub> , Journal of Non-Crystalline Solids, 241, 74-77, 1998.				
5.	S. R. Lukić, V. M. Leovac, A. F. Petrović, S. J. Skuban, V. I. Češljević, M. M. Garić: Metal Complexes with Pyrazole-derived Ligands. XIII. Synthesis and Thermal Studies of Zn(II) Complexes with 3-amino-4-acetyl-5-methylpyrazole, Synth.React.Inorg. Met.-Org.Chem.,2002				
6.	S. R. Lukić, S. J. Skuban, D. M. Petrović, A. F. Petrović, M. Garić, Characteristics of complex non-crystalline chalcogenides from the Ge-As-S-Se-I system, Journal of Optoelectronics & Advanced Materials, 6(3), 755-768, 2004.				
7.	A. F. Petrović, S.R. Lukić, D.D. Štrbac: Critical rate of cooling glassy melts under conditions of continuous nucleation. The application to some chalcogenide glasses, Journal of Optoelectronics & Advanced Materials, 6(4) 1167-1177, 2004.				
8.	S. R. Lukić, D. M. Petrović, Ž. N. Cvejić, A F. Petrović, F. Skuban: Thermally-induced Structural Changes in Copper-containing Chalcogenide Thin Films, Journal of Optoelectronics & Advanced Materials, 3(2), 337-340, 2001.				
9.	S.R. Lukić, D.M. Petrović, G.R.Štrbac, A.F.Petrović, M Šiljegović : Effect of sulfur atom substitute with selenium on stability of glassy Ge <sub>20</sub> As <sub>14</sub> SxSe <sub>52-x</sub> 14, Journal of Physics and Chemistry of Solids 66, 1683-1686 (2005)				
10.	A.F.Kozmidis-Petrovic, G.R.Strbac, D.D.Strbac, Kinetics of non-isothermal crystallization of chalcogenide, J.Non-Cyst.Solids, 2014–2019, 353(2007)2014				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			153		
Total of SCI(SSCI) list papers :			25		
Current projects :			Domestic :	1	International : 0







	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	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 carier	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Automatic Control and System Engineering
Bachelor's thesis	1994	Faculty of Technical Sciences - Novi Sad	Electroenergetics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	AU44	Control Systems Design	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E226	Automatic Control Systems	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( H00) Mechatronics, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies ( SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E238A	Control Systems Technology	( BM0) Biomedical Engineering, Undergraduate Academic Studies ( E20) Computing and Control Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	EEI302	Systems of Automatic Control in Power Engineering	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	H1405	Optimization Methods	( H00) Mechatronics, Undergraduate Academic Studies
6.	H302	Control Systems 2	( H00) Mechatronics, Undergraduate Academic Studies
7.	M325	Automatic Control Systems	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
8.	BMI125	Biological Control Systems	( BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E2315	Electrical Machines in Automatic Control Systems	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	EMSAU <sub>1</sub>	Automatic Control Systems in Electronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
11.	SEAU01	Nonlinear programming and evolutionary computations	( SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
12.	SEAU03	Real-time control algorithms	( SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
13.	DE410S	Selected Topics in the Field of Automatic Control	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies





		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation - PhD Studies			
		DOCTORAL 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.				

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

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



Name and last name:			Malbaški T. Dušan
Academic title:			Full Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Technical Sciences - Novi Sad
			15.06.1975
Scientific or art field:			Applied Computer Science and Informatics
Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1980	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1974	School of Electrical Engineering - Beograd	Electrical and Computer Engineering



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

	ID	Course name	Study programme name, study type
1.	E111	Programming Languages and Data Structures	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E131	Object-Oriented Programming	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E214	Programming Languages and Data Structures	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( ES0) Power Software Engineering, Undergraduate Academic Studies
4.	E223A	Object Programming	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( ES0) Power Software Engineering, Undergraduate Academic Studies
5.	H207	Programming and Programming Languages	( F10) Engineering Animation, Undergraduate Academic Studies ( H00) Mechatronics, Undergraduate Academic Studies ( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
6.	GI111	Information technologies in geodesy	( GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	DRNI01	Selected Topics in Computer Programming	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DRNI05	Selected Topics in Software Standardization and Quality	( E20) Computing and Control Engineering, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	(koautori D.Obradović i V.Malbaša): "Analysis and Practical Considerations of an Improved Multimicroprocessor System", časopis Microprocessing and Microprogramming, North-Holland, no. 16, 1985 (naziv promenjen u Journal of Systems Architecture).
2.	(koautori J.Rekecki i dr.): "Automatic Design of the Technological Process for NC Lathes by the Use of SAPOR-S System", International Journal on Production Research, Vol. 21 No. 2, 1983.
3.	Malbaški D., Kupusinac A., Popov S.: The Impact of Coding Style on the Readability of C Programs, TTEM. Tehnics technologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	(koautor D.Ivetić): "A Dichotomous Software Life Cycle Model", Journal of Applied Systems Studies, Cambridge International Science Publishing, Cambridge, England, vol. 2, No 2, 2001
5.	(koautori D.Obradović i V.Malbaša): "Multimicroprocessor Performance VS Shared Bus Efficiency", ACM European Regional Conference, Florence, Italy, 1985.<eng>
6.	(koautor D.Ivetić): "Some Notes on the Formal Definition of Streams", YUJOR, Vol.6, No. 2, 1996.
7.	(koautori M.Khlaif, D.Obradović): "A New Approach to Soft System Methodology", Automatika, Vol 30. (1989), No. 1-2.

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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Marčetić P. Darko	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.04.2007	
Scientific or art field:		Power Electronics, Machines and Facilities	
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Power Electronics, Machines and Facilities
PhD thesis	2006	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Magister thesis	1998	School of Electrical Engineering - Beograd	Power Electronics, Machines and Facilities
Bachelor's thesis	1992	Faculty of Technical Sciences - Novi Sad	Electronics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E133	Power Converters	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies ( ZC0) Clean Energy Technologies, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE308	Power Electronics 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EOS14	Laboratory from electrical machines	( E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
4.	EOS25	Solar and hybrid electric plants	( E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F203	Electrical Machines	( F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	HE2465	Mechatronics of Transport and Construction Machines	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
7.	EE408A	Application of microprocessors in power engineering	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	EEI310	Industrial systems and protocols	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	DE109S	Selected Chapters in Electromotive Drives	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE409S	Modern Methods of Digital Control of Drives and Converters	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE524	Methods of Regulation of Power Converters with Microcontrollers	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EE534	Special Electric Motor Drives	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE537	Special Electrical Machines	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	DE109	Selected Chapters in Electromotive Drives	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies
15.	DE409	Modern Methods of Digital Control of Drives and Converters	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Marčetić D., Adžić E.: Improved Three-Phase Current Reconstruction for Induction Motor Drives With DC-Link Shunt, IEEE Transaction on Industrial Electronics, 2010, Vol. 57, No 7, pp. 1-9, ISSN 0278-0046		
2.	Marčetić D., Vukosavic S.: Speed Sensorless AC Drives with the Rotor Time Constant Parameter Update, IEEE Transaction on Industrial Electronics, 2007, Vol. 54, No 5, pp. 2618-2625, ISSN 0278-0046		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Representative references (minimum 5, not more than 10)			
3.	Marčetić D., Krcmar I., Matic P.: Discrete Rotor Flux Estimator for High Performance Induction Motor Drives with Low Sampling to Fundamental Frequency Ratio, International Review of Electrical Engineering IREE, 2012, Vol. 7, No 2, pp. 3804-3813.		
4.	Porobić V., Adžić E., Marčetić D.: High Speed Shaft Sensorless DFOC Induction Motor Drive with Field Angle Correction, International Review of Electrical Engineering IREE, 2011, Vol. 6, No 4, ISSN 1827-6660		
5.	Tomić J., Kušljević M., Marčetić D.: An Adaptive Resonator Based Method for Power Measurements According to the IEEE Trial-Use Standard 1459-2000, IEEE Transactions on Instrumentation		
6.	Vasić V., Marčetić D., Jeftenić B., Vladan J.: Speed-Sensorless Control of Induction Motor Based on Reactive Power with Rotor Time Constant Identification, IET ELECTRIC POWER APP, 2010, Vol. 4, No 6, ISSN 1751-8660		
7.	Vasić V., Marčetić D., Oros Đ.: Prediction of Local Instabilities in Open-loop Induction Motor Drives, COMPEL - The international journal for computation and mathematics in electrical engineering, 2010, Vol. 29, No 3, ISSN 0332-1649		
8.	Oros Đ., Vasić V., Marčetić D., Kulić F.: Influence of parameters detuning on induction motor NFO shaft-sensorless scheme, Journal of Advances in Electrical and Computer Engineering, 2010, Vol. 10, No 4, pp. 121-124, ISSN 1582-7445.		
9.	Oros Đ., Vasić V., Marčetić D.: NFO sensorless induction motor drive with on-line stator resistance parameter update, Electric Power Components		
10.	Kušljević M., Tomić J., Marčetić D.: Active power measurement algorithm for power system signals under non-sinusoidal conditions and wide-range frequency deviations, IET Generation, Transmission		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	
Total of SCI(SSCI) list papers :		10	
Current projects :		Domestic :	1 International : 0





	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></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 - PhD Studies</h2>					
DOCTORAL 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

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		


### Science, arts and professional qualifications



Name and last name:		Mernik R. Marjan	
Academic title:		Guest Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Science	
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Computer Science
PhD thesis	1998		Computer Science
Magister thesis	1994		Computer Science
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	DRNI01	Selected Topics in Computer Programming	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Fister, Iztok, Jr.; Mernik, Marjan; Fister, Iztok; et al.: Implementation of EasyTime Formal Semantics using a LISA Compiler Generator, COMPUTER SCIENCE AND INFORMATION SYSTEMS, Volume: 9, Issue: 3, Pages: 1019-1044 DOI: 10.2298/CSIS111110021F. (2012)		
2.	Hrncic, Dejan; Mernik, Marjan; Bryant, Barrett R.: Improving Grammar Inference by a Memetic Algorithm, IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, Volume: 42, Issue: 5, Pages: 692-703, DOI: 10.1109/TSMCC.2012.2186802 (2012).		
3.	Kosar, Tomaz; Mernik, Marjan; Carver, Jeffrey C.: Program comprehension of domain-specific and general-purpose languages: comparison using a family of experiments, EMPIRICAL SOFTWARE ENGINEERING, Volume: 17, Issue: 3, Pages: 276-304, DOI: 10.1007/s10664-011-9172-x (2012).		
4.	Hrncic, Dejan; Mernik, Marjan; Bryant, Barrett R.; et al.: A memetic grammar inference algorithm for language learning, APPLIED SOFT COMPUTING, Volume: 12, Issue: 3, Pages: 1006-1020, DOI: 10.1016/j.asoc.2011.11.024 (2012).		
5.	Mongus, D.; Repnik, B.; Mernik, M.; et al.: A hybrid evolutionary algorithm for tuning a cloth-simulation model, APPLIED SOFT COMPUTING, Volume: 12, Issue: 1, Pages: 266-273, DOI: 10.1016/j.asoc.2011.08.047 (2012).		
6.	Fister, Iztok; Mernik, Marjan; Filipic, Bogdan: A hybrid self-adaptive evolutionary algorithm for marker optimization in the clothing industry, APPLIED SOFT COMPUTING, Volume: 10, Issue: 2, Pages: 409-422, DOI: 10.1016/j.asoc.2009.08.001 (2010).		
7.	Bryant, Barrett R.; Gray, Jeff; Mernik, Marjan; et al.: Challenges and Directions in Formalizing the Semantics of Modeling Languages, COMPUTER SCIENCE AND INFORMATION SYSTEMS, Volume: 8, Issue: 2, Pages: 225-253, DOI: 10.2298/CSIS110114012B (2011).		
8.	Sprinkle, Jonathan; Mernik, Marjan; Tolvanen, Juha-Pekka; et al.: What Kinds of Nails Need a Domain-Specific Hammer?, IEEE SOFTWARE, Volume: 26, Issue: 4, Pages: 15-18 (2009).		
9.	Rebernak, D.; Mernik, M.; Wu, H.; et al.: Domain-specific aspect languages for modularising crosscutting concerns in grammars, IET SOFTWARE Volume: 3 Issue: 3 Pages: 184-200 DOI: 10.1049/iet-sen.2007.0114 (2009).		
10.	Brest, Janez; Greiner, Saso; Boskovic, Borko; Mernik, Marjan; et al.: Self-adapting control parameters in differential evolution: A comparative study on numerical benchmark problems, IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION Volume: 10 Issue: 6 Pages: 646-657 DOI: 10.1109/TEVC.2006.872133 (2006).		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		280	
Total of SCI(SSCI) list papers :		88	
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

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

		UNIVERSITY OF NOVI SAD			
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
		Study Programme Accreditation - PhD Studies			
		DOCTORAL ACADEMIC STUDIES		Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
11.	IM1423	Financial Mathematics	(I20) Engineering Management, Undergraduate Academic Studies		
12.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies		
13.	I004/S	Statistical Quantitative Methods	( I20) Engineering Management, Specialised Professional Studies ( IB0) Engineering Management - MBA, Specialised Professional Studies		
14.	OIR009	Primenjena aktuarska matematika	( I20) Engineering Management, Specialised Professional Studies		
15.	ZR503	Statistical Advanced Models	( Z01) Safety at Work, Master Academic Studies		
16.	D0M07	Mathematical Foundations of Fuzzy Systems	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
17.	D0M21	Fuzzy Systems and Their Applications	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
18.	D0M49	Aggregation Functions	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
19.	D0M50	Fuzzy Measures and Integrals	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
20.	D0M51	Large Deviations Principles	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
21.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( GI0) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	E. Pap, B. Mihailović: A representation of a comonotone-v-additive and monotone functional by two Sugeno integrals, Fuzzy Sets and Systems 155, (2005) 77-88				
2.	B. Mihailović, E. Pap: Sugeno integral based on absolutely monotone real set functions, Fuzzy Sets and Systems, Vol 161, Issue 22, (2010) 2857-2869				
3.	B. Mihailović, E. Pap: Asymmetric integral as a limit of generated Choquet integrals based on absolutely monotone real set functions, Fuzzy Sets and Systems 181, (2011) 39-49.				
4.	B. Mihailović, E. Pap: Asymmetric general Choquet integrals, Acta Polytechnica Hungarica, Volume 6, Issue Number 1, (2009) 161-173.				
5.	Kalina M., Manzi M., Mihailović B.: Choquet integrals and T-supermodularity, E. Pap (Ed.): Intelligent Systems: Models and Applications, TIEI 3, DOI: 10.1007/978-3-642-33959-2 4 c Springer-Verlag Berlin Heidelberg , (2013 ) 61-75.				

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Representative references (minimum 5, not more than 10)			
6.	B. Mihailović, Lj. Nedović, T. Grbić : The induced Sugeno integral-based operator w.r.t bi-fuzzy measures, Journal of Electrical Engineering, Vol.54, No. 12/s, (2003) 76-79.		
7.	B. Mihailović, E. Pap: Non-monotonic set functions and general fuzzy integrals, Proceedings of SISY 2008, Subotica, (2008) 371-374.		
8.	B. Mihailović: On the class of symmetric S-separable aggregation functions Proceedings of AGOP 2007, Ghent, Belgium, (2007) 187-191.		
9.	B. Mihailović, E. Pap: Decomposable signed fuzzy measures, Proceedings of EUSFLAT 2007, Ostrava, Czech Republic, (2007) 265-269.		
10.	B. Mihailović, M. Manzi: On the asymmetric Shilket-like integral, Proceedings of AGOP2011, Benevento, Italy, (2011) 73-77.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		10	
Total of SCI(SSCI) list papers :		4	
Current projects :		Domestic :	2
		International :	0







	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	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		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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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 career	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 Surveillance 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 - PhD Studies			
		DOCTORAL 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 proizvoda tokom životnog ciklusa, Fakultet tehničkih nauka, 2012				
9.	Ostojić, G., Stankovski, S., Tarjan, L., Šenk, I., Jovanović, V., DEVELOPMENT AND IMPLEMENTATION OF DIDACTIC SETS IN MECHATRONICS AND INDUSTRIAL ENGINEERING COURSES, International Journal of Engineering Education; 2010, Vol. 26, No. 1, pp. 2-8, ISSN 0949-149X				



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </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 :	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">3</td> <td style="width: 50%;">International : 2</td> </tr> </table>	3	International : 2
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES</p>	
	Mechatronics	

Science, arts and professional qualifications

Name and last name:		Palčič -. Iztok	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Production Systems, Organization and Management	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2004	Faculty of Mechanical Engineering - Maribor	Production Systems, Organization and Management
Magister thesis	2002	Faculty of Mechanical Engineering - Maribor	Mechanical Engineering
Bachelor's thesis	1999	Faculty of Mechanical Engineering - Maribor	Mechanical Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	IM1046	Structural and Development Projects	( I20) Engineering Management, Undergraduate Academic Studies
2.	IM1317	Project Procurement Management	(I20) Engineering Management, Undergraduate Academic Studies
3.	IM1821	Managing Media Projects	(I20) Engineering Management, Undergraduate Academic Studies
4.	HDOK4 S	Selected chapters from automation of work processes	( I12) Industrial Engineering, Specialised Academic Studies
5.	IMDS59	Project approach in Effective Systems	( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies
6.	MBA413	Knowledge Systems and Project Management	( I20) Engineering Management, Specialised Professional Studies ( IB0) Engineering Management - MBA, Specialised Professional Studies
7.	PLM05	Management of PLM Projects	( I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
8.	IM2101	Intelligent Enterprising and Effective Management	( M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
9.	IM2107	SAP Enterprise systems	( M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
10.	IM2314	Program and Portfolio management	(I20) Engineering Management, Master Academic Studies
11.	HDOK-4	Selected Chapters in Production Process Automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
12.	HDOKL4	Selected chapters from automation of work processes	( H00) Mechatronics, Doctoral Academic Studies
13.	IMDR59	Project Approach in Effective Systems	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	PALČIČ, Iztok, POLAJNAR, Andrej, VUJICA-HERZOG, Nataša. Upravljanje proizvodnje v večprojektnem okolju. Proj. mreža Slov., sep. 2002, letn. 5, št. 3, str. 20-28. [COBISS.SI-ID 7420182]		
2.	PANDŽA, Krsto, BUCHMEISTER, Borut, POLAJNAR, Andrej, PALČIČ, Iztok. Proizvodna strategija, podprta s teorijo proizvodnih virov : študij primera v podjetju Primat = An operations strategy supported with resource-based theory = a case study at the Primat company. Stroj. vestn., 2002, letn. 48, št. 7, str. 379-394. [COBISS.SI-ID 7601430] JCR IF: 0.05, SE (96/102), engineering, mechanical, x: 0.553		
3.	PALČIČ, Iztok, POLAJNAR, Andrej, PANDŽA, Krsto. Model za učinkovito upravljanje proizvodnje po naročilu = A model for the effective management of order-based production. Stroj. vestn., 2003, letn. 49, št. 7/8, str. 398-412. [COBISS.SI-ID 8491030] JCR IF: 0.048, SE (99/106), engineering, mechanical, x: 0.61		
4.	FULDER, Tatjana, PALČIČ, Iztok, POLAJNAR, Andrej, PIŽMOHT, Petja. Razvoj proizvodnih zmogljivosti v industrijskih grozdih - primer Slovenski avtomobilski grozd = The process of manufacturing capability development in industrial clusters - a Case study of the automotive cluster of Slovenia. Stroj. vestn., 2005, letn. 51, št. 12, str. 771-785. [COBISS.SI-ID 8782875] JCR IF: 0.116, SE (91/104), engineering, mechanical, x: 0.644		



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
	<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </div>			
Representative references (minimum 5, not more than 10)				
5.	PALČIČ, Iztok. Projektni management za večjo inovativnost v industrijskem grozdu. Proj. mreža Slov., sep. 2004, letn. 7, št. 3, str. 25-29. [COBISS.SI-ID 9007894]			
6.	FULDER, Tatjana, PALČIČ, Iztok, POLAJNAR, Andrej. Razvoj proizvodnih sposobnosti in učinkovitost izvajanja projektov v industrijskih grozdih. Proj. mreža Slov., dec. 2005, letn. 8, št. 1/3, str. 13-20. [COBISS.SI-ID 10062614]			
7.	PALČIČ, Iztok, LALIČ, Bojan. Analytical hierarchy process as a tool for selecting and evaluating projects. Int. j. simul. model., Mar. 2009, vol. 8, no. 1, str. 16-26. <a href="http://dx.doi.org/10.2507/IJSIMM08(1)2.112">http://dx.doi.org/10.2507/IJSIMM08(1)2.112</a> , doi: 10.2507/IJSIMM08(1)2.112. [COBISS.SI-ID 13077782]			
8.	PALČIČ, Iztok, BALAŽIČ, Matej, MILFELNER, Matjaž, BUCHMEISTER, Borut. Potential of laser engineered net shaping (LENS) technology. Mater. manuf. process., 2009, vol. 24, no. 7/8, str. 750-753, doi: 10.1080/10426910902809776. [COBISS.SI-ID 13243670] JCR IF (2008): 0.706, SE (25/38), engineering, manufacturing, x: 0.905, SE (128/191), materials science, multidisciplinary, x: 1.953			
9.	PALČIČ, Iztok, BUCHMEISTER, Borut, LALIČ, Bojan. Analitični hierarhični proces kot orodje za ocenjevanje in izbiro projektov. Proj. mreža Slov., mar. 2009, letn. 12, št. 1, str. 4-10. [COBISS.SI-ID 13103126]			
10.	PALČIČ, Iztok. Industrial clusters. Vienna: DAAAM International Publishing, 2007. VIII, 116 str., graf. prikazi. ISBN 3-901509-80-1. ISBN 978-3-901509-80-3. [COBISS.SI-ID 60180993] 2.02 Professional monograph			
Summary data for teacher's scientific or art and professional activity:				
Quotation total :	0			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	0	International :	0



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

	<div>UNIVERSITY OF NOVI SAD</div> <div>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</div>	
<div>Study Programme Accreditation - PhD Studies</div> <div>DOCTORAL ACADEMIC STUDIES<div>Mechatronics</div></div>		

Science, arts and professional qualifications



Name and last name:			Pilipović R. Stevan
Academic title:			Full Professor
Name of the institution where the teacher works full time and starting date:			Faculty of Sciences - Novi Sad
			01.01.1973
Scientific or art field:			Mathematics
Academic carieer	Year	Institution	Field
Academic title election:	1987	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1977	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1973	Faculty of Sciences - Novi Sad	Mathematics



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

	ID	Course name	Study programme name, study type
1.	DAU004	Selected Chapters in Mathematics 2	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies
2.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( G10) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)



1.	Atanacković TM, Oparnica L, Pilipović S: On a model of viscoelastic rod in unilateral contact with a rigid wall, IMA JOURNAL OF APPLIED MATHEMATICS, (2006) vol.71 br.1 str. 1-13.
2.	Atanackovic, TM Pilipovic, S Zorica, D: A diffusion wave equation with two fractional derivatives of different order, JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, (2007) vol.40 br.20 str. 5319-5333
3.	Pilipovic, S. Teofanov, N. : Multiresolution expansion, approximation order and quasiasymptotic behavior of tempered distributions, JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, (2007) vol.331 br.1 str. 455-471
4.	Oberguggenberger, M. Pilipovic, S. Scarpalezos, D. : Positivity and positive definiteness in generalized function algebras, JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, (2007) vol.328 br.2 str. 1321-1335
5.	Oberguggenberger, M. Pilipovic, S. Valmorin, V. : Global representatives of Colombeau holomorphic generalized functions, MONATSHFTE FUR MATHEMATIK, (2007) vol.151 br.1 str. 67-74
6.	Pilipovic, S Scarpalezos, D : Divergent type quasilinear Dirichlet problem with singularities, ACTA APPLICANDAE MATHEMATICAE, (2006) vol.94 br.1 str. 67-82
7.	Pilipovic, Stevan Vuletic, Mirjana : Characterization of wave front sets by wavelet transforms, TOHOKU MATHEMATICAL JOURNAL, (2006) vol.58 br.3 str. 369-391
8.	Hormann, G Oberguggenberger, M Pilipovic, S : Microlocal hypoellipticity of linear partial differential operators with generalized functions as coefficients, TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY, (2006) vol.358 br.8 str. 3363-3383
9.	Mitrovic, D Pilipovic, S : Approximations of linear Dirichlet problems with singularities, JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, (2006) vol.313 br.1 str. 98-119
10.	Pilipovic, Stevan Scarpalezos, Dimitris Valmorin, Vincent : Equalities in algebras of generalized functions, FORUM MATHEMATICUM, (2006) vol.18 br.5 str. 789-801



	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		250	
Total of SCI(SSCI) list papers :		258	
Current projects :		Domestic :	0
		International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



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

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

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



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





	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Radonić R. Jelena	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.04.2004	
Scientific or art field:		Environment Protection Engineering	
Academic career	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	2009	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Magister thesis	2006	University of Novi Sad - Novi Sad	Environment Protection Engineering
Bachelor's thesis	2002	Faculty of Technology - Novi Sad	Technological Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	URZP45	Mobile Equipment and Fire Extinguishing Equipment	( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
2.	URZP61	Fundamentals of the Burning Processes Theory	( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
3.	Z102	Technical Chemistry	(Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z109	Chemical Principles in Environmental Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z305	Data Analysis of Environmental Condition	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z305A	Environmental data analysis	( Z01) Safety at Work, Undergraduate Academic Studies ( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
7.	Z102	Tehnička hemija(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z109	Hemijski principi u inženjerstvu zaštite životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	Z151	Chemistry in Mechanical Engineering	( 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 ( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
10.	Z153	Chemistry in Engineering	( Z01) Safety at Work, Undergraduate Academic Studies
11.	Z155	Chemical Principles in Engineering	( Z01) Safety at Work, Undergraduate Academic Studies
12.	Z600	Chemical Phenomena in Engineering	( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
13.	Z503	Practical Course in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
14.	Z507	Physical and Chemical Principles	(Z20) Environmental Engineering, Master Academic Studies
15.	Z507	Fizičko hemijski principi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	MPK005	Analysis of environmental protection systems	( MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
17.	SZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	( Z00) Environmental Engineering, Specialised Academic Studies
18.	SZD003	Applied Analysis of Physical and Chemical Parameters	( Z00) Environmental Engineering, Specialised Academic Studies
19.	SZSP09	Remediation of contaminated locations	( Z00) Environmental Engineering, Specialised Academic Studies
20.	SZSP17	Savremene instrumentalne metode analize zagađujućih supstanci u životnoj sredini	( Z00) Environmental Engineering, Specialised Academic Studies

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<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
21.	HDOK11	Advanced Application of ICT in Agriculture	( H00) Mechatronics, Doctoral Academic Studies		
22.	HDOL11	Advanced application of ICT in agriculture	( H00) Mechatronics, Doctoral Academic Studies		
23.	ZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	( Z00) Environmental Engineering, Doctoral Academic Studies		
24.	ZDO03	Applied Analysis of Physical and Chemical Parameters	( OM1) Mathematics in 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.	Turk Sekulić M., Radonić (Jakšić) J., Đogo M.: Characterization of gas/particle partitioning of PCBs and PAHs in a pilot area of Kragujevac, Serbia U: Environmental, Health And Humanity Issues In The Down Danubian Region: Multidisciplinary Approaches, Singapur, World Scientific, 2008, str. 284-295, ISBN 978-981-283-439-3				
2.	Radonić (Jakšić) J., Turk Sekulić M., Vojinović-Miloradov M., Klanova J.: Gas/particle partitioning of persistent organic pollutants generated during the war accident in Serbia , Environmental Science and Pollution Research, 2009, Vol. 16, No 1, pp. 65-72, ISSN 0944-1344				
3.	Turk Sekulić M., Radonić (Jakšić) J., Vojinović-Miloradov M., Klanova J.: Post-war levels of persistent organic pollutants (POPs) in air from Serbia determined by active and passive sampling methods , Environmental Chemistry Letters, 2007, Vol. 5, No 3, pp. 109-113, ISSN 1610-3653				
4.	Jovčić N., Radonić (Jakšić) J., Turk Sekulić M., Vojinović-Miloradov M., Popov S.: Identification of emission sources of particle-bound polycyclic aromatic hydrocarbons in the vicinity of the industrial zone of the city of Novi Sad DOI: 10.2298/HEMIND120113062J, Hemijska industrija, 2012, pp. 1-36, ISSN 0367-598X				
5.	Grujić Letić N., Milić N., Turk Sekulić M., Radonić (Jakšić) J., Milanović M., Mihajlović I., Vojinović-Miloradov M.: Quantification of emerging organic contaminants in the Danube River samples by HPLC, Chemicke Listy, 2012, Vol. 106, pp. 264-266, ISSN 1213-7103				
6.	Milić N., Milanović M., Grujić Letić N., Turk Sekulić M., Radonić (Jakšić) J., Mihajlović I., Vojinović-Miloradov M.: Occurrence of antibiotics as emerging contaminant substances in aquatic environment DOI: 10.1080/09603123.2012.733934, INT J ENVIRON HEAL R, 2012, pp. 1-15, ISSN 0960-3123				
7.	Radonić (Jakšić) J., Vojinović-Miloradov M., Turk Sekulić M., Kiurski J., Đogo M., Milovanović D.: The octanol-air partition coefficient, KOA, as a predictor of gas-particle partitioning of polycyclic aromatic hydrocarbons and polychlorinated biphenyls at industrial and urban sites, Journal of Serbian Chemical Society, 2011, Vol. 76, No 3, pp. 447-458, ISSN 0352-5139, UDK: doi: 10.2298/JSC100616037R				
8.	Radonić (Jakšić) J., Čulibrk D., Vojinović-Miloradov M., Kukić B., Turk Sekulić M.: Prediction of gas-particle partitioning of PAHs based on M5' model trees, Thermal Science, 2011, Vol. 15, No 1, pp. 115-124, ISSN 0354-9836, UDK: doi: 10.2298/TSCI100809005R				
9.	Turk Sekulić M., Radonić (Jakšić) J., Vojinović-Miloradov M., Šenk N., Okuka M.: Assessment of Atmospheric Distribution of Polychlorinated Biphenyls and Polycyclic Aromatic Hydrocarbons Using Polyparameter Model, Hemijska industrija, 2011, Vol. 65, No 4, pp. 371-380, ISSN 0367-598X, UDK: 504.5(497.11):547.621				
10.	Vojinović-Miloradov M., Turk Sekulić M., Radonić (Jakšić) J., Mihajlović I., Stošić M.: Emerging substances of concern – a shift in traditional thinking, 1. Environmental Protection of Urban and Suburban Settlements, Novi Sad: Ecological Movement of Novi Sad, 21-24 Septembar, 2011, pp. 265-271, ISBN 978-86-83177-44				
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 : 3

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		



Science, arts and professional qualifications

Name and last name:		Rajković R. Milan	
Academic title:		Senior Science Associate	
Name of the institution where the teacher works full time and starting date:		Vinča Institute of Nuclear Sciences - Vinča	
		01.01.2000	
Scientific or art field:		Physical Science	
Academic carieer	Year	Institution	Field
Academic title election:	2005	Vinča Institute of Nuclear Sciences - Vinča	Physical Science
PhD thesis	1997	University of Belgrade - Beograd	Physics
Magister thesis	1983	University of Pennsylvania - Tennessee	Physics
Bachelor's thesis	1982	University of Pennsylvania - Tennessee	Physics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( G10) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	D. Horak, S. Maletić, M. Rajković, Persistent Homology of Complex Networks, Journal of Statistical Mechanics and Applications (2009) P03034.		
2.	Milan Rajković, M.M. Škorić, K. Sølna and G. Antar, Characetrization of Local Turbulence in Magnetic Confinement Devices, Nuclear Fusion 48 (2008) 1-13.		
3.	Mladen Nikolić and Milan Rajković, A group theoretic approach to a class of third-order differential equations with two parameter symmetry group solvable by quadratures, Nonlinear Dynamics 48 (2007) 17-27.		
4.	Mladen Nikolić and Milan Rajković, Bifurcations in Nonlinear Models of Fluid Conveying Pipes, Journal of Fluids and Structures, 22 (2006),		
5.	Z. Mihailović and M. Rajković, Cooperative Parrondo's games on a two-dimensional lattice, Physica A 365 (2006) 244-251		
6.	Milan Rajković, Tomo-hiko Watanabe and M.M. Škorić, Level crossing function in the Analysis of Confined Plasma Turbulence, Nuclear Fusion 49 (2009) 095016i		
7.	Milan Rajković and M.M. Škorić, Characterization of Intermittency in Plasma Edge Turbulence; Contributions to Plasma Physics 48 (2008) L31-L35.		
8.	M. Rajković, Nonextensive entropy as a measure of time series complexity, Physica A 340 (2004) 327-333		
9.	M. Rajković and Z. Mihailović, Quantifying Complexity in the Minority Game, Physica A 325 (2003) 40 - 47		
10.	Z. Mihailović and M. Rajković, One-dimensional Asynchronous Cooperative Parrondo's Games, Fluctuation and Noise Letters 3 (2003) L389 - 398		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		100	
Total of SCI(SSCI) list papers :		22	
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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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



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<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Satarić V. Miljko	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		03.01.1973	
Scientific or art field:		Physics	
Academic career	Year	Institution	Field
Academic title election:	1995	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	1984	School of Electrical Engineering - Beograd	Physics
Magister thesis	1979	School of Electrical Engineering - Beograd	Physics
Bachelor's thesis	1972	Faculty of Sciences - Novi Sad	Physics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E103	Physics	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E215	Physics	( E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	Z103	Selected Chapters in Physics 1	( Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z110	Selected Chapters in Physics 2	( Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	E1410	Biophysics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	DE203S	Odabrana poglavlja iz kvantne elektronike	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE301S	Molekularna elektronika(uneti naziv na engleskom)	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DZ01FS	Selected Chapters in Physics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
9.	EM511	Quantum and Organic Electronics	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	SI028	Biophysics	( E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	DE203	Selected Chapters in Quantum Electronics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
12.	DE301	Molecular Electronics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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.	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.	S. Zdravković, M.V. Satarić, "Single-Molecule Unzipping Experiments on DNA Peyrard-Bishop-Dauxois Model", Phys.Rev.E73,021905-11,2006.				
2.	J. A. Tuszynski, J. A. Brown, E. Crawford, E. J. Carpenter, M. L. A. Nip, J. M. Dixon, M. Satarić, "Molecular dynamics simulations of tubulin structure and calculations of electrostatic properties of microtubules", Mathematical and Computer Modelling, vol. 41, no.10, pp. 1055-1070, 2005.				
3.	M. Satarić, B. Satarić, J. A. Tuszynski, "Nonlinear model of microtubule dynamics", Electromagnetic Biology and Medicine, vol.24, no. 3, pp. 255-264, 2005.				
4.	S. Zdravković J. A. Tuszynski, M. Satarić "Peyrard-Bishop-Dauxois model of DNA dynamics and impact of viscosity", Journal of Computational and Theoretical Nanoscience, vol. 2, no. 2, pp. 263-271, 2005.				
5.	S. Zdravković, M. Satarić, "Optical and Acoustical Frequencies in a Nonlinear Helicoidal Model of DNA Molecule", Chinese Physics Letters 22, pp. 850-853, 2005.				
6.	S. Portet, J. A. Tuszynski, J. M. Dixon, M. Satarić, "Models of spatial and orientational self-organization of microtubules under the influence of gravitational fields", Physical Review E, vol. 68, no. 2, 2003.				
7.	M. Satarić, J. A. Tuszynski, "Relationship between the nonlinear ferroelectric and liquid crystal models for microtubules", Physical Review E, vol. 67, no. 1, 2003.				
8.	S. Zdravković, M. Satarić, "DNA dynamics and big viscosity", International Journal of Modern Physics B, vol.17, no. 31-32, pp. 5911-5923, 2003.				
9.	M. Satarić, J. A. Tuszynski, "Impact of regulatory proteins on the nonlinear dynamics of DNA", Physical Review E, vol. 65, no. 5, 2002.				
10.	G. Keković, D. Raković, M. Satarić, D. Koruga, "A kink-soliton model of charge transport through microtabular cytoskeleton", Current Research in Advanced Materials and Processes, vol. 494, pp. 507-512, 2005.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			295		
Total of SCI(SSCI) list papers :			67		
Current projects :			Domestic :	1	International : 2




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



Name and last name:		Sladoje Matić I. Nataša	
Academic title:		Associate Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		14.03.1994	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2011		Mathematics
PhD thesis	2005	University of Novi Sad - Novi Sad	Mathematical Sciences
Magister thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1992	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A101	Mathematics	( A00) Architecture, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	( GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	( GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	IAM001	Mathematical Shape Modeling for Computer Animation	( F10) Engineering Animation, Undergraduate Academic Studies
5.	IAM004	Geometry of Discrete Space	( F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA008	Mathematics for Engineering Graphics	( F10) Engineering Animation, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	( BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	( BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E101A	Discrete Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
11.	Z506	20BAdvanced Course in Mathematics 1	( ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
12.	IA018	Computer Geometry	( F20) Engineering Animation, Master Academic Studies
13.	D0M28	Digital Geometry	( OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M29	Image Processing 1	( OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M30	Image Processing 2	( OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	D0M31	Applied Algorithms	( OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M32	Combinatorial and Geometric Algorithms	( OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M33	Positional Games	( OM1) Mathematics in Engineering, Doctoral Academic Studies



		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
20.	AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856				
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611				
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828				
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<leng>				
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<leng>				
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<leng>				
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<leng>				
8.	Ćurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.				
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.				
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			71		
Total of SCI(SSCI) list papers :			21		
Current projects :			Domestic :	2	International : 3

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	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 - PhD Studies</h2>			
DOCTORAL 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.	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>UNIVERSITY OF NOVI SAD</p> <p>FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6</p> <p><b>Study Programme Accreditation - PhD Studies</b></p> <p>DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications



Name and last name:		Stankovski V. Stevan	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		23.03.1987	
Scientific or art field:		Mechatronics, Robotics and Automation and Integral Systems	
Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	H105	Fundamentals in Computer science	( H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	( H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	( H00) Mechatronics, Undergraduate Academic Studies
4.	H1409	Intelligent Systems	( H00) Mechatronics, Undergraduate Academic Studies
5.	H1410	Programming and application of programmable logic controllers	( H00) Mechatronics, Undergraduate Academic Studies
6.	H1501A	Systems for 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		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	Study Programme Accreditation - PhD Studies		
DOCTORAL 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 - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </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





	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>	
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Science, arts and professional qualifications



Name and last name:		Stojaković M. Mila	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.12.1975	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1980	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1978	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1975	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135	Probability, Statistics and Stochastic Processes	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	E221A	Mathematical Analysis 2	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( ES0) Power Software Engineering, Undergraduate Academic Studies ( SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies ( SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	ZC006	Probability, Statistics and Random Processes	( ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	0M504	Operational Research	( OM1) Mathematics in Engineering, Master Academic Studies
7.	0M505	Stochastic Processes	( OM1) Mathematics in Engineering, Master Academic Studies
8.	0ML504	Operational Research	( OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML505	Stochastic Processes	( OM1) Mathematics in Engineering, Master Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies
11.	IAM005	Mathematical Game Theory	( F20) Engineering Animation, Master Academic Studies ( OM1) Mathematics in Engineering, Master Academic Studies
12.	SD0M03	Operational Research	( GI0) Geodesy and Geomatics, Specialised Academic Studies
13.	SD0M15	Statistics	( GI0) Geodesy and Geomatics, Specialised Academic Studies
14.	ZR503	Statistical Advanced Models	( Z01) Safety at Work, Master Academic Studies
15.	D0M03	Operational Research	( OM1) Mathematics in Engineering, Doctoral Academic Studies

	UNIVERSITY OF NOVI SAD		
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
16.	D0M04	Random Processes	( OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M15	Statistics	( OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M27	StatisticsApplied in Engineering	( OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DAU004	Selected Chapters in Mathematics 2	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies
20.	DOM59	Fixed point theory	( OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DZ01M	Selected Chapters in Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( E20) Computing and Control Engineering, Doctoral Academic Studies ( F00) Graphic Engineering and Design, Doctoral Academic Studies ( F20) Engineering Animation, Doctoral Academic Studies ( G00) Civil Engineering, Doctoral Academic Studies ( G10) Geodesy and Geomatics, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies ( Z00) Environmental Engineering, Doctoral Academic Studies ( Z01) Safety at Work, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Mila Stojaković, Decomposition and representation of fuzzy valued measure, Fuzzy Sets and Systems, 112(2000) 251-256		
2.	Mila Stojaković, Fuzzy conditional expectation, Fuzzy Sets and Systems, 52(1992) 49-54		
3.	Mila Stojaković, Fuzzy random variable, expectation, martingales, J.Math.Anal.Appl., 184(1994) 594-606.		
4.	Mila Stojaković, Fuzzy martingales, Stochastic Analysis and Applications, 14(1996), 355-368.		
5.	Mila Stojaković, Zoran Stojaković, Support function for fuzzy set, Proceedings of Royal Society, London A, 452(1996), 421-438.		
6.	Mila Stojaković, Zoran Stojaković, Addition and series of fuzzy sets, Fuzzy Sets and Systems, 83(1996) 341-346.		
7.	Mila Stojaković, Representation of fuzzy valued mappings, Fuzzy Sets and Systems, 98(1998) 375-381.		
8.	Mila Stojaković, Fuzzy valued measure, Fuzzy Sets and Systems, 65(1994) 95-104 .		
9.	Mila Stojaković, Common fixed point theorems in complete metric and probabilistic spaces, Bull. Australian Math. Soc., 36(1987) 73-88.		
10.	Mila Stojaković, Zoran Ovcin, Fixed point theorems and variational principle..., Fuzzy Sets and Systems, 66(1994) 353-356.		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		71	
Total of SCI(SSCI) list papers :		16	
Current projects :		Domestic :	1
		International :	1

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

Name and last name:		Šećerov E. Emil	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.09.1987	
Scientific or art field:		Telecommunications and Signal Processing	
Academic carier	Year	Institution	Field
Academic title election:	2009		Telecommunications and Signal Processing
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Magister thesis	1993	Faculty of Technical Sciences - Novi Sad	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.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	S1329P	Introduction to Communication Networks	( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	S1437P	Telekomunikacione mreže i saobraćaj	( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	DE111S	Algorithms for Digital Signal Processing	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	EK532	Telecommunication System Software	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
6.	EK535	Computer Telephone Integration	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	S0152	Next Generation Telecommunication Networks	( S01) Postal Traffic and Telecommunications, Master Academic Studies
8.	DE111	Algorithms for Digital Signal Processing	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Kovačević V., Popović M., Šećerov E., "Requirements for Operating Systems included in Virtual Machine System", System Science Journal, Vol 17, No. 1, 1991, pp 61-65.		
2.	Kovačević V., Popović M., Šećerov E., "Requirements for Operating Systems included in Virtual Machine System", International Conference on System Science Abstract of Papewrs, Wroclaw, 1989, pp. 108.		
3.	Šećerov E., Teslić N., Popović M., "Efficient kernel for real-time systems operating in non-deterministic enviroment", Procedeengs of the 12th International Conference on Systems Science, Volume 3, Wroclaw, Poland, 1995, pp 104-111.		
4.	Šećerov E., Popović M., Svirčević S., "Middle Level of Control for Call Processing Protocol in Telephone Exchanges", Procedeengs of the 12th International Conference on Systems Science, Volume 3, Wroclaw, Poland, 1995, pp 112-119.		
5.	Šećerov E., Popović M., Kovačević V., "Heuristic Method for Dimensining Processing Elements in Stored Program Telephone Exchange", Relectronic, 1995, 9th Symposium on Quality and Reliability in Electronics, Budapest, 1995, pp 263-268.		
6.	Kovačević V., Popović M., Šećerov E., Manojlović Z., Škrbić M., "Software Concept applied in subscriber digital concentrator ACK 2000 for Russian Telephone Network", ICT '98 International Conference on Telecommunications, Vol. IV, 1998, Porto Carras, pp 212-215.		
7.	Bender M. , Šećerov E. , Šenk V., Popov S.: "Application Gateway between Open and Legacy Systems", Eurocon 2005, The International Conference on "Computer as a tool", IEEE Region 8, November 2005, Belgrade, pp 1072-1076.		
8.	Popović M., Kovačević V., Šećerov E., "Merenje apsolutnog vremena u VMS", XIII Simpozijum o informacionim tehnologijama, Sarajevo-Jahorina, 1989, str. 114-1 – 114-4.		
9.	Šećerov E., Petković M., Jurca Ž., Djordjević S., "Pristup definisanju uslova za uključivanje OS u VMS", XXXIII Jugoslovenska konferencija ETAN, Knjiga VIII, Novi Sad, 1989, str. 1999-2005.		
10.	Petković M., Popović M., Šećerov E., "Segmentiranje magnetnog medijuma sa direktnim pristupom kap podrška sistemu virtuelnih mašina", XXXIII Jugoslovenska konferencija ETAN, Knjiga VIII, Novi Sad, 1989, str. 207-213.		
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Šenk I. Vojin	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.01.1987	
Scientific or art field:		Telecommunications and Signal Processing	
Academic career	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1992	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	( BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK462	Entrepreneurship in ICT	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK464	Communication Systems Design	( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	DE310S	Encoding and Signal Transmission Techniques	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE510S	Algorithms of Signal Detection and Estimation	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EK521	Information and Communication Theory	( S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK533	Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EK534	Cryptography System for Data Protection	( OM1) Mathematics in Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EK536	Coding Techniques	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	RPR004	Entrepreneurship, Innovation, Knowledge Regions - Role of Universities	( RPR) Regional Development Planning and Management, Master Academic Studies
11.	DAU001	Selected Chapters in Telecommunications and Signal Processing	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DE310	Encoding and Signal Transmission Techniques	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE510	Algorithms of Signal Detection and Estimation	( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8., pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548		
2.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616		
3.	Vukobratović D., Šenk V.: Generalized ACE Constrained Progressive Edge-Growth LDPC Code Design , IEEE Communications Letters, 2008, Vol. 12, No 1, pp. 32-34, ISSN 1089-7798, UDK: 10.1109/LCOMM.2008.071457		



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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Representative references (minimum 5, not more than 10)			
4.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, no. 7, 2004, pp. 589-593.		
5.	D. Bajić, V. Šenk, M. Despotović, "Subsets of the STM-1 frame-alignment signal: a monitoring analysis", IEE Proc. Commun., vol. 149, no. 5, Oct. 2002. pp. 242-248.		
6.	Miroslav Despotović, Vojin Šenk, Bartolomeu F. Uchôa Filho, "DISTANCE SPECTRA OF CONVOLUTIONAL CODES OVER PARTIAL-RESPONSE CHANNELS", IEEE Transactions on Communications, vol. 49, no.7, pp. 1121-1124, July 2001.		
7.	Kovačević M., Šenk V.: On Possible Dependence Structures of a Set of Random Variables, Acta Mathematica Hungarica, 2012, Vol. 135, No 3, pp. 286-296		
8.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: "Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol", Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215		
9.	Bojović Ž., Šećerov E., Dobromirov D., Šenk V.: Maximizing the Profit of Telecom Telcos by a Novel Traffic Scheduling Policy, Electronics and electrical engineering, 2011, Vol. 7, No 113, pp. 67-73, ISSN 1392-1215		
10.	Bojović Ž., Šenk V., Dobromirov D., Bojović P.: Intervendor working of VOIP networks, Journal of the Institute of Telecommunications Professionals, 2011, Vol. 5, No 3, pp. 26-32, ISSN 1755-9278		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		141	
Total of SCI(SSCI) list papers :		18	
Current projects :		Domestic :	3
		International :	3





	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>		
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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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	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
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 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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications



Name and last name:		Temerinac R. Miodrag	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		-	
Scientific or art field:		Computer Engineering and Computer Communication	
Academic career	Year	Institution	Field
Academic title election:	1997	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	2003	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1979	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering
Bachelor's thesis	1976	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E240	Fundamentals of DSP Architecture and Algorithms 1	( E20) Computing and Control Engineering, Undergraduate Academic Studies ( MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	E2401	Fundamentals of DSP Architecture and Algorithms 2	( E20) Computing and Control Engineering, Undergraduate Academic Studies
3.	RT510	Algorithms and DSP platforms in computer communications	( E20) Computing and Control Engineering, Master Academic Studies ( SE0) Software Engineering and Information Technologies, Master Academic Studies
4.	RT511	Practicum in computer engineering and computer communications	( E20) Computing and Control Engineering, Master Academic Studies ( SE0) Software Engineering and Information Technologies, Master Academic Studies
5.	DAU001	Selected Chapters in Telecommunications and Signal Processing	( E20) Computing and Control Engineering, Doctoral Academic Studies ( H00) Mechatronics, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic Studies
6.	DRT04	Selected Chapters in Computer Communications	( Z01) Safety at Work, Doctoral Academic Studies
7.	DRT07	Development and implementation of multimedia algorithms	( E20) Computing and Control Engineering, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)			
1.	Osnovi algoritama i struktura DSP, S. Berber i M. Temerinac, 2004		
2.	Arhitekture i algoritmi DSP I, V. Kovačević, M. Popović, M. Temerinac, N. Teslić, 2005		
3.	Principi telekomunikacija I i II, M. Temerinac, 1988		
4.	Osnovi telekomunikacija, V. Milošević, Ž. Trpovski, M. Temerinac, 1994		
5.	Temerinac-Ott M., Temerinac M.: Discrete Fourier-Invariant Signals: Design and Applications", Elsevier Science Publishers, 2012, Vol. 60, No 3, pp. 1108-1120, UDK: 10.1109/TSP.2011.2178602		
6.	Miodrag Temerinac, Carsten Noeske, Ralf Herz, Steffen Zimmermann, Volker Wagner, „ Eine neue DSP Plattform für Multimedia-Anwendungen", It - Information Technology 45(6): (2003)		
7.	Hilsinger U., Bock C., Fiesel H. and Temerinac M., "Neues Konzept für drahtlose High-End-Audioübertragung", Elektronik, Sonderheft Wireless 02/2002, pp. 50-55		
8.	Teslić N., Zlokolica V., Peković V., Tekcan T., Temerinac M.: Packet-loss error detection system for DTV and set-top box functional testing, IEEE Transactions on Consumer Electronics, 2010, Vol. 56, No 3, pp. 1311-1319, ISSN 0098-3063, UDK: 10.1109/TCE.2010.5606264		
9.	Kovačević J., Samardžija D., Temerinac M.: Joint coding rate control for audio streaming in short range wireless networks, IEEE TRANSACTIONS ON CONSUMER ELECTRONICS 2009 55 (2):486-491, 2009, Vol. 55, No 2, pp. 486-491, ISSN 0098-3063		
10.	Marijan D., Teslić N., Temerinac M., Peković V.: On the Effectiveness of the System Validation Based on the Black Box Testing Methodology, JOURNAL OF ELECTRONIC SCIENCE AND TECHNOLOGY OF CHINA, 2009, Vol. 2009, No 7(4), pp. 1-4, UDK: http://d.wanfangdata.com.cn/Periodical_zgdzj-e200904020.aspx		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		0	



	UNIVERSITY OF NOVI SAD				
	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
	Study Programme Accreditation - PhD Studies				
DOCTORAL ACADEMIC STUDIES				Mechatronics	
Total of SCI(SSCI) list papers :		22			
Current projects :		Domestic :	1	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>	
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Science, arts and professional qualifications



Name and last name:		Teofanov Đ. Ljiljana	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 18.12.1995	
Scientific or art field:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2008	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2000	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1994	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	A101	Mathematics	( A00) Architecture, Undergraduate Academic Studies
2.	EE204	Selected Chapters in Mathematics	( MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	GG00	Mathematical Methods 1	( G00) Civil Engineering, Undergraduate Academic Studies
4.	GI101	Algebra	( GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	IAM001	Mathematical Shape Modeling for Computer Animation	( F10) Engineering Animation, Undergraduate Academic Studies
6.	M102	Mathematics 1	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies ( M30) Energy and Process Engineering, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies
7.	M106	Mathematics 2	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies ( M30) Energy and Process Engineering, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies
8.	E101A	Discrete Mathematics	( E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	IM1523	Discrete Mathematics	( M30) Energy and Process Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
10.	P216	Numerical Analysis	( P00) Production Engineering, Undergraduate Academic Studies
11.	SE0009	Discrete Mathematics	( SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies ( SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	( E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies ( I12) Industrial Engineering, Specialised Academic Studies ( I22) Engineering Management, Specialised Academic Studies ( Z00) Environmental Engineering, Specialised Academic Studies

		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6			
<h2 style="text-align: center;">Study Programme Accreditation - PhD Studies</h2>					
DOCTORAL 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.	IA022	Numerical Optimization	( F20) Engineering Animation, Master Academic Studies		
14.	D0M48	Numerical Methods for Solving Differential Equations	( OM1) Mathematics in Engineering, Doctoral Academic Studies		
15.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
Representative references (minimum 5, not more than 10)					
1.	Surla, K., Teofanov, Lj., Uzelac, A Robust Layer-Resolving Spline Collocation Method for a Convection-Diffusion Problem, Applied Mathematics and Computation,(2009), 208(1): 76-89				
2.	Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters II: robust finite element solution, J. Comput. Appl. Math. Vol. 212, 2008, 374-389				
3.	Teofanov, Lj., Roos, H. -G, An elliptic singularly perturbed problem with two parameters I: solution decomposition, J. Comput. Appl. Math. Vol. 206, 2007, 1082-1097				
4.	Surla, K., Uzelac, Z., Teofanov, Lj., The discrete minimum principle for quadratic spline discretization of a singularly perturbed problem, Math. Comput. Simul. 2009, Vol. 79, No 8, pp.2490-2505				
5.	Teofanov, Lj., Zarin, H., Superconvergence for two-parameter singularly perturbed problem, BIT Numerical Mathematics, Vol. 49, No. 4, 2009, 743-765				
6.	Vulanović, R., Teofanov, Lj., A uniform numerical method for semilinear reaction-difusion problems with a boundary turning point, Numer. Algor. 54, 2010, 431-444				
7.	Teofanov, Lj., Uzelac, Z., Family of Quadratic Spline Difference Schemes for a Convection-Diffusion Problem, Int. J. Comput. Math., Vol. 84, No. 1, 2007, 33-50				
8.	Surla, K., Uzelac, Z., Teofanov, Lj., On collocation methods for singular perturbation problems of convection-diffusion type, Novi Sad J. Math, Vol. 31, No. 1, 2001, 125-132				
9.	Surla, K., Uzelac, Z., Pavlović, Lj., On collocation methods for singular perturbation problems, Novi Sad J. Math., Vol. 30, No. 3, 2000, 173-183				
10.	Čomić, I., Pavlović, Lj., Funkcije više promenljivih, Fakultet tehničkih nauka, Novi Sad, 2000, 95 str.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			12		
Total of SCI(SSCI) list papers :			7		
Current projects :			Domestic :	1	International : 0



	<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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Uzelac S. Zorica	
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:		Mathematics	
Academic carieer	Year	Institution	Field
Academic title election:	2000	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1989	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1980	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1974	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.	GG00	Mathematical Methods 1	( G00) Civil Engineering, Undergraduate Academic Studies
2.	GG05	Mathematical Methods 2	( G00) Civil Engineering, Undergraduate Academic Studies
3.	II1052	Mathematics 2	( I10) Industrial Engineering, Undergraduate Academic Studies
4.	IM1002	Mathematics 1	( I10) Industrial Engineering, Undergraduate Academic Studies ( I20) Engineering Management, Undergraduate Academic Studies
5.	IM1006	Mathematics 2	( I20) Engineering Management, Undergraduate Academic Studies
6.	IM1120	Knowledge management	(I20) Engineering Management, Undergraduate Academic Studies
7.	OM518	Numerical Solutions of Differential Equations	( OM1) Mathematics in Engineering, Master Academic Studies
8.	OML518	Numerical Solution of Differential Equations	( OM1) Mathematics in Engineering, Master Academic Studies
9.	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
10.	HR013	Knowledge Economy	( I20) Engineering Management, Specialised Professional Studies ( IB0) Engineering Management - MBA, Specialised Professional Studies
11.	MBA309	Human Resource Management in Knowledge Economy	( IB0) Engineering Management - MBA, Specialised Professional Studies
12.	OIR010	Mathematics for Business and Finance	( I20) Engineering Management, Specialised Professional Studies
13.	IA022	Numerical Optimization	( F20) Engineering Animation, Master Academic Studies
14.	D0M16	Differential Equations	( OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M18	Numerical Analysis	( OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DM322	Numeric Methods in Power Machines and Plants	( 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 - PhD Studies</h2>					
DOCTORAL 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.	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.	Surla K., Teofanov Lj., Uzelac Z.: A robust layer-resolving spline collocation method for a convection-diffusion problem, Applied Mathematics and Computation, 2009, Vol. 208, No 1, pp. 76-89, ISSN 0096-3003				
2.	Surla K., Uzelac Z., Teofanov Lj.: The discrete minimum principle for quadratic spline discretization of a singularly perturbed problem, Math. Comput. Simul, 2009, Vol. 79, No 8, pp. 2490-2505, ISSN 0378-4754				
3.	Surla K., Uzelac Z., Some uniformly convergent spline difference schemes for singularly perturbed boundary value problems, IMA J. Numer. Anal.10(1990) 209-222				
4.	Sekulić, D., Edeskuty, F.J., Uzelac, Z., Heat Transfer Through a High Temperature Superconducting Current Lead at Criogenic temperatures, Int.J. Heat Mass Transfer, Vol. 40, No 16, 1997, 3917-3926,				
5.	Uzelac, Z., Surla, K., Discretization of the Semilinear Singularly Perturbed Problem, Nonlinear Analysis: Theory, Methods and Applications, Vol.30, No.8, (1997), 4741-4747				
6.	Sekulic, D., Uzelac, Z., Edeskuty, F., J., Entropy generation in a high temperaturesuperconducting current lead, Cryogenics, Vol 32(1992) 1154-1161				
7.	Cvetičanin, L., Uzelac, Z., Longitudinal Vibration of Rod with Non-Linear Constitutive Equation, Journal of Vibration and Control,5, (1999), 827-849				
8.	Teofanov, Lj., Uzelac, Z., Family of Quadratic Spline Difference Schemes for a Convection-Diffusion Problem, International Journal of Computer Mathematics, Vol. 84, No. 1, 2007, 33-50				
9.	Z. Uzelac, L. Nešić, D. Hristić, A Contribution to Research the Characteristics of Women Managers and a New Style of Leadership, Proceedings of IC-Congress, Haarlem, The Netherlands, 3-4. May 2007				
10.	Dj. Ćelić, Z. Uzelac, Vrednosne mreže, Zborniki radova XIII Medjunarodna konferencija industrijski sistemi-IS05, Herceg Novi, 07-09. septembar, 2005, 921-931				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			52		
Total of SCI(SSCI) list papers :			26		
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;"><b>Study Programme Accreditation - PhD Studies</b></p> <p style="text-align: center;">DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span></p>	
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Science, arts and professional qualifications

Name and last name:		Vilotić Ž. Dragiša	
Academic title:		Full Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.01.1975	
Scientific or art field:		Plastic Deformation Technology, Rapid Prototyping, Virtual	
Academic career	Year	Institution	Field
Academic title election:	1998	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
PhD thesis	1986	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Magister thesis	1981	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
Bachelor's thesis	1974	Faculty of Technical Sciences - Novi Sad	Plastic Deformation Technology, Rapid Prototyping, Virtual
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	P207	Metal forming	( P00) Production Engineering, Undergraduate Academic Studies
2.	P2401	Advanced Methods in Metal Forming	( P00) Production Engineering, Undergraduate Academic Studies
3.	P2413	Computer Aided Design of Tools and Dies for Metal Forming	( P00) Production Engineering, Undergraduate Academic Studies
4.	P303	Machines for Processing by Deforming	( P00) Production Engineering, Undergraduate Academic Studies
5.	P3403	Technology of Plastic Forming - Shaping of plastic material	( P00) Production Engineering, Undergraduate Academic Studies
6.	P3503	Machines and Devices for Plastic Processing	( P00) Production Engineering, Undergraduate Academic Studies
7.	M2062	Mechanical engineering technologies 2	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
8.	M3203	Technology of machinery	( M30) Energy and Process Engineering, Undergraduate Academic Studies
9.	P3402	Physical and Phase States of Polymers	( P00) Production Engineering, Undergraduate Academic Studies
10.	ZR408A	Safety at work on the machines for processing	( Z01) Safety at Work, Undergraduate Academic Studies
11.	P2407	Rapid Prototyping and Rapid Tooling	( PM0) Production Engineering, Master Academic Studies
12.	P3501	Tool Designing for Plastic	( PM0) Production Engineering, Master Academic Studies
13.	P3503A	Contemporary Process Systems for Plastic Treatment	( PM0) Production Engineering, Master Academic Studies
14.	BMIM4B	Technologies of shaping biomedical materials	( BM0) Biomedical Engineering, Master Academic Studies ( PM0) Production Engineering, Master Academic Studies
15.	PMISP1	Modelling and Simulation of Metal Forming Processes	( PM0) Production Engineering, Master Academic Studies
16.	PTS01	Technology of sintering	( PM0) Production Engineering, Master Academic Studies
17.	DP001	Design and Research Methods in Production Engineering	( M00) Mechanical Engineering, Doctoral Academic Studies
18.	DP005	State and Tendencies in Development of Metrology, Quality and Equipment	( M00) Mechanical Engineering, Doctoral Academic Studies
19.	DP008	Contemporary Methods and TPD Systems	( M00) Mechanical Engineering, Doctoral Academic Studies
20.	DP012	Physical Modelling and TPD Simulation by Computers	( M00) Mechanical Engineering, Doctoral Academic Studies
21.	DP015	Nonconventional Procedures of Forming in TPD	( 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 - PhD Studies</h2>					
DOCTORAL ACADEMIC STUDIES				Mechatronics	
List of courses being held by the teacher in the accredited study programmes					
	ID	Course name	Study programme name, study type		
22.	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		
23.	DP026	Modern methods for polymers investigation	(M00) Mechanical Engineering, Doctoral Academic Studies		
24.	DP028	Theoretical basis for forming polymer technology	(M00) Mechanical Engineering, Doctoral Academic Studies		
25.	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.	Essa K., Kačmarčík I., Hartley P., Plančak M., Vilotić D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing Technology, 2012, Vol. 212, No 4, pp. 817-824, ISSN 0924-0136				
2.	Alexandrov S., Vilotić D., Konjovčić Z., Vilotić M.: An Improved Experimental Method for Determining the Workability Diagram, Experimental Mechanics, 2012, Vol. 52, No 11340, ISSN 0014-4851				
3.	Alexandrov S., Vilotić D.: A study on an effect of geometric singularities on ductile fracture, Engineering Fracture Mechanics, 2009, Vol. 76, No 14, pp. 2309-2315, ISSN 0013-7944				
4.	Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, Experimental Mechanics, 2006, Vol. 46, pp. 115-120, ISSN 0014-4851				
5.	Plančak M., Hartley P., Essa K., Vilotić D., Movrin D., Lužanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International, 2012, pp. 1247-1250, ISSN 1611-3683				
6.	Vilotić D., Alexandrov S., Plančak M., Vilotić M., Ivanišević A., Kačmarčík I.: Material Formability at Upsetting by Cylindrical and Flat Dies, Steel Research International, 2012, pp. 1175-1178, ISSN 1611-3683				
7.	Vilotić D., Alexandrov S., Plančak M., Movrin D., Ivanišević A., Vilotić M.: Material Formability of Upsetting by V-Shape Dies, Steel Research International, 2011, pp. 923-928, ISSN 1611-3683				
8.	Lyamina E., Alexandrov S., Vilotić D., Movrin D.: Effect of Shape of Samples on Ductile Fracture Initiation in Upsetting, Steel Research International, 2010, Vol. 9, No 81, pp. 306-309, ISSN 1611-3683				
9.	D. Vilotić, D. Milikić, M. Plančak, M. Milutinović: Obrazovanje inženjera proizvodnog mašinstva iz oblasti oblikovanja plastike na Fakultetu tehničkih nauka u Novom Sadu, 4. kongres inženjera plastičara i gumara K – IPG 2006., zbornik na CDu, ppt 100 slajdova, Vršac, 13-16. juni 2006.				
10.	Obradović R., Vilotić D.: Prikaz tehnologije i opreme za za ultrazvučno zavarivanje termoplastičnih komponenata, Zbornik radova MMA 2006, strana 27-28, FTN, Novi Sad, juni 2006.				
Summary data for teacher's scientific or art and professional activity:					
Quotation total :			17		
Total of SCI(SSCI) list papers :			15		
Current projects :			Domestic :	1	International : 1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications



Name and last name:		Vučinić-Vasić T. Milica	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		15.04.2000	
Scientific or art field:		Physics	
Academic career	Year	Institution	Field
Academic title election:	2007	Faculty of Technical Sciences - Novi Sad	Physics
PhD thesis	2007	Faculty of Sciences - Novi Sad	Physics
Magister thesis	2000	Faculty of Sciences - Novi Sad	Physics
Bachelor's thesis	1996	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.	F102	Physics	( F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	GG06	Civil Engineering Physics	( G00) Civil Engineering, Undergraduate Academic Studies
3.	S014	Physics	( S00) Traffic and Transport Engineering, Undergraduate Academic Studies ( S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	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
5.	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.	Milica Vučinić-Vasić, Divko Čirić, Tatjana Škrbić, Miroljub Đurić, Zbirka zadataka iz fizike, FTN Izdavaštvo, Novi Sad 2005.		
2.	Ljuba Budinski-Petković, Milica Vučinić, Dušan Ilić, Praktikum eksperimentalnih vežbi iz fizike – odsek za računarstvo i automatiku, S PRINT, Novi Sad, 2003		
3.	Ljuba Budinski-Petković, Milica Vučinić-Vasić, Dušan Ilić, Praktikum eksperimentalnih vežbi iz fizike – odsek za mašinstvo – odsek za grafičko inženjerstvo – odsek za mehatroniku, Delta press, Novi Sad, 2003.		
4.	Vučinić-Vasić M.: Exchange-Bias and Grain-Surface Relaxations in Nanostructured NiO/Ni Induced by a Particle Size Reduction, Journal of Physical Chemistry C, 2012, Vol. 116, pp. 4356-4364, ISSN 1932-7447		

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6		
	<b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES <span style="float: right;">Mechatronics</span>		
Representative references (minimum 5, not more than 10)			
5.	Vučinić-Vasić M., Mihailović A., Kozmidis-Luburić U., Nemeš T., Ninkov J., Zeremski T., Antić B.: Metal contamination of short-term snow cover near urban crossroads: Correlation analysis of metal content and fine particles distribution, Chemosphere, 2012, Vol. 6, No 86, pp. 585-592		
6.	Kremenović A., Jančar B., Ristić M., Vučinić-Vasić M., Rogan J., Pacevski A., Antić B.: Exchange-Bias and Grain-Surface Relaxations in Nanostructured NiO/Ni Induced by a Particle Size Reduction, Journal of Physical Chemistry C, 2012, Vol. 116, pp. 4356-4364, ISSN 1932-7447		
7.	Antić B., Kremenović A., Vučinić-Vasić M., Dohčević-Mitrović Z., Nikoloć A., Gruden-Pavlović M., Jančar B., Meden A.: Composition related properties of (Yb,Y)(2)O-3 nanoparticles synthesized by controlled thermal degradation of AA complexes, Materials chemistry and physics, 2010, Vol. 122, No 2-3, pp. 386-391, ISSN 0254-0584		
8.	Antić B., Rogan J., Kremenović A., Nikoloć A., Vučinić-Vasić M., Božanić D., Goya G., Colomban P.: Optimization of photoluminescence of Y2O3:Eu and Gd2O3:Eu phosphors synthesized by thermolysis of 2,4-pentanedione complexes, NANOTECHNOLOGY, 2010, Vol. 21, No 24, pp. 2457-2457, ISSN 0957-4484		
9.	Jović N., Vučinić-Vasić M., Kremenović A., Antić B., Jovalekić Č., Vulić P., Kahlenberg V., Kaindl R.: HEBM synthesis of nanocrystalline LiZn0.5Ti1.5O4 spinel and thermally induced order-disorder phase transition (P4332-Fd3m), Materials chemistry and physics, 2009, No 2-3, pp. 542-549, ISSN 0254-0584		
10.	Vučinić-Vasić M., Antić B., Blanuša J., Rakić S., Kremenović A., Nikolić A., Kapor A.: Formation of nanosize Li-ferrites from acetylacetonato complexes and their crystal structure, microstructure and order-disorder phase transition, Applied Physics A, 2006, Vol. 82, No 1, pp. 49-54, ISSN 0947-8396		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :		53	
Total of SCI(SSCI) list papers :		17	
Current projects :		Domestic :	2
		International :	1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 <b>Study Programme Accreditation - PhD Studies</b> DOCTORAL ACADEMIC STUDIES	
	Mechatronics	

Science, arts and professional qualifications

Name and last name:		Žigić M. Miodrag	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad	
		01.10.2007	
Scientific or art field:		Mechanics	
Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanics
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	GG15	Strength of Materials	( G00) Civil Engineering, Undergraduate Academic Studies
2.	GG410	Selected Chapters in the Theory of Elasticity	(G00) Civil Engineering, Undergraduate Academic Studies
3.	H112	Mechanics 1 – Fundamentals	( H00) Mechatronics, Undergraduate Academic Studies ( S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	H201	Mechanics 2 - General	( H00) Mechatronics, Undergraduate Academic Studies
5.	H202	Strength of materials	( H00) Mechatronics, Undergraduate Academic Studies
6.	H303	Mechatronics 3 – Further Chapters	( H00) Mechatronics, Undergraduate Academic Studies
7.	M204	Strength of Materials	( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies ( M30) Energy and Process Engineering, Undergraduate Academic Studies ( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies ( P00) Production Engineering, Undergraduate Academic Studies
8.	M4302	Biomechanics and mechanics of sport	( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	M4306	Similarity and dimensional methods	( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
10.	BMI128	Continuum Biomechanics	( BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	II1004	Mechanics and Industrial Engineering	( I10) Industrial Engineering, Undergraduate Academic Studies
12.	M44061	Optimization of mechanical systems	( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
13.	M4504	Thermal Elasticity	( M40) Technical Mechanics and Technical Design, Master Academic Studies
14.	BMIM4A	Transport phenomena and Living systems	( BM0) Biomedical Engineering, Master Academic Studies
15.	M45991	Biomechanics of cardiovascular system	( M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	SZD051	Applications of optimal control theory in living environment protection	( Z00) Environmental Engineering, Specialised Academic Studies
17.	DM801	Biomedical mechanics	( M40) Technical Mechanics, Doctoral Academic Studies
18.	DTM02	Theory of impact	( H00) Mechatronics, Doctoral Academic Studies ( M00) Mechanical Engineering, Doctoral Academic Studies ( M40) Technical Mechanics, Doctoral Academic Studies ( S00) Traffic Engineering, Doctoral Academic Studies
19.	DTM03	Biomechanical models and analysis of impact	( M40) Technical Mechanics, Doctoral Academic Studies
20.	ZRD16A	Selected chapters in mechanics and elasticity theory	( Z01) Safety at Work, Doctoral Academic Studies
Representative 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 - PhD Studies</h2> <div style="display: flex; justify-content: space-between;"> <span>DOCTORAL ACADEMIC STUDIES</span> <span>Mechatronics</span> </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



**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES  
Mechatronics

**Standard 10. Organizational and Material Resources**

To perform the study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students' number are provided. Lectures at the study programme of Mechatronics are organized in two shifts so that the required minimum of 2m<sup>2</sup> of space per student is fulfilled.

To perform the study programme, the adequate space for lecturing is provided, as well as the adequate laboratory space necessary for the experimental work and the contemporary equipment necessary for qualitative and productive scientific and research work. Lectures are held in classrooms and specialized laboratories.

Faculty provides the usage of the library fund from its own or other sources (books, monographs, scientific magazines, other periodicals) in the amount necessary for the Doctoral study programme. Doctoral study students have the access to databases necessary for Doctoral dissertation elaboration and scientific and research work.

The library possesses more than 100 library units relevant for the performance of the study programme. All courses from the study programme have adequate textbooks, devices and supplementary equipment available on time and in a satisfactory number for the normal teaching process. There is also adequate information support.

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Faculty has the library and the study room and provides a seat for each student in amphitheatres, classrooms and laboratories.

Faculty has a short-term and a long-term plan and the budget for the realization of scientific and research work.

Means for the realization of Doctoral studies, besides the ones provided by the resource ministries, are also provided in cooperation with other higher education institutions, accredited scientific institutions and international organizations.

Faculty provides students to utilize equipment or have access to necessary and adequate equipment in the possession of the Faculty, for scientific and research work.

Faculty provides students to utilize equipment or have access to the equipment necessary for scientific and research work on the basis of contracts on cooperation with other appropriate institutions.





**Study Programme Accreditation - PhD Studies**  
DOCTORAL ACADEMIC STUDIES Mechatronics

**Standard 11. Quality Control**

Estimation of the study programme quality is elaborated regularly and systematically via self-evaluation and external quality control. One should place an emphasis on the multi-decade practice of students' surveys.

Study programme quality control is elaborated in the following manners:

- Surveying students at final lecture from the given course.
- Surveying students on the quality of the study programme and logistic support to the studies in the event of awarding the Diploma. Also, the studying comfort (classroom cleanness and tidiness) is evaluated there.
- Surveying students during the confirmation on completing a year of studies. Then students evaluate the logistic support to the studies.
- Surveying students on enrolling each year of studies. Then students evaluate the study programme at the year they completed in the prior academic year.
- Surveying the teaching and non-teaching staff on the quality of the study programme and the logistic support to the studies. This survey evaluates the work of the Dean's office, Registrar's office, library, and other services at the Faculty.

Furthermore, the studying comfort (classroom cleanness and tidiness) is also evaluated.

To monitor the quality of the study programme, there is also a committee with all heads of all Departments participating in the realization of the study programme, together with a student from each study group.

Additional quality is obtained by the obligatory scientific production of candidates. Prior to beginning the defense of the Doctoral dissertation, each candidate is obliged to publish at least 2 (two) papers in the R54 rank (following the categorization provided by the Ministry of Science) and at least one paper in the magazine from the SCI list.