STUDY PROGRAMME ACCREDITATION MATERIAL:

MATHEMATICS IN ENGINEERING

DOCTORAL ACADEMIC STUDIES

Novi Sad

2012.

Prevod sa srpskog jezika:

Jelisaveta Šafranj

Ivana Mirović

Marina Katić

Vesna Bodganović

Dragana Gak

Ličen Branislava

Content

Content

Content

Content

Content

Content

Content

Programme name	Mathematics in Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Interdisciplinary
Scientific, proffesional or art field	Applied Mathematics: Technical Sciences; Mathematical Sciences
Type of studies	Doctoral Academic Studies
Study scope, expressed in ECTS	180
Academic degree, abbreviation	Doctor of Science - Applied Mathematics, Ph.D.App.Math.
Study length	3
Programme implementation starting year	2005
Future course implementation starting year (for new programme)	
Number of students attending this programme	19
Planned number of students to be enrolled in this programme	60
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2008
Web address containing programme information	http://www.ftn.uns.ac.rs

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

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

Standard 01. Programme Structure

The name of the Doctoral Study Programme is Mathematics in Engineering. The acquired academic degree is Doctor of Science – Applied Mathematics (PhD). The outcome of the learning process is the knowledge which enables students to become capable of independent scientific research.
Doctoral academic studies in Mathematics in Engineering last three years and are worth at least 180 ECTS, of which 90 ECTS are obtained through passing subject examinations, 30 ECTS through passing theoretical basses of Doctoral dissertation and the remaining 60 ECTS are obtained by developing and defending a Doctoral dissertation. Doctoral studies cannot last longer than 10 years. Doctoral studies at one study programme last at least three years (6 semesters), and not longer than 10 academic years.
Research study on Theoretical Bases of Doctoral Dissertation is a qualifying examination for the preparation of a doctoral dissertation in which students demonstrate that they have mastered the necessary theoretical knowledge in the scientific areas of interest.
A student`s research interest is profiled by selecting courses which will be studied and taken so as to contribute to the thorough knowledge and understanding of the area (topic) of the doctoral dissertation. Optional subjects are selected from the group of proposed subjects at the study programme, but the students also have the opportunity to choose, with the consent of the mentor (supervisor), a number of subjects from the set of subjects for Doctoral Studies at Faculty of Technical Sciences, University of Novi Sad, or any other university in the country or abroad. In that case the prerequisites prescribed for attending the selected course have to be fulfilled.
Teaching activity for the subjects (compulsory or optional) is group or individual (mentoring) activity. Group classes are organized for subjects chosen by five or more students or if this type of teaching is necessary due to the nature (character) of the subject. The decision on the type of instruction and optional subjects to be taught is made by the Head of Doctoral Studies following the suggestion of the Committee for Quality Assurance of the study programme (study module).

Standard 02. Programme Objectives

The purpose of the Study Programme is education of students capable of high standard and independent scientific research in accordance with the needs of society. On the other hand, educating staff trained to critically evaluate research work and independently carry out original and scientifically relevant research facilitates the development of new technologies and procedures that contribute to the overall development of the society. In addition, the purpose of this Doctoral Study Programme is a contribution to the national science as well.

The study programme of Doctoral Studies in Mathematics in Engineering is designed to provide the acquisition of skills that are socially justified and useful. The Faculty of Technical Sciences has defined its tasks and goals for educating highly competent personnel in the field of technology and the purpose of the study programme in Mathematics in Engineering is completely in accordance with the objectives and goals of the Faculty of Technical Sciences.

Standard 03. Programme Goals

The objective of the study program is to develop the student`s scientific competencies and academic skills in the field of Mathematics in Engineering. This, among other things, includes the development of creative abilities in solving problems and the ability of critical thinking, the development of teamwork skills and the mastery of specific practical skills necessary to perform the profession.
The objective of the study program is to educate an expert who has sufficient extended knowledge consistent with the contemporary trends in the development of world science.
One of the specific objectives, which is in accordance with aims of educating experts at the Faculty of Technical Sciences, is to develop the students` awareness of the need for personal contribution to the development of society in general and environmental protection. The objective of the study program is also the education of experts in the field of teamwork, as well as developing the capacity to communicate and present one`s original results to the scholarly community.

Standard 04. Graduates' Competencies

PhD graduates of the academic study programme in Mathematics in Engineering are competent to conduct research and solve problems in real life practice activities. The competencies include, above all, the development of critical thinking skills, problem analysis capabilities, solution synthesis, predicting the behaviour of the selected solution with a clear representation of its advantages and disadvantages.
Qualifications that indicate the completion of doctoral academic studies are gained by the students:
•who have demonstrated systematic knowledge and understanding in the field of mathematics in engineering that complements the knowledge gained in 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 mathematics in engineering;
•who have shown the ability of making concepts, design and application;
•who have shown the 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 at the national and international levels;
•who are capable of critical analysis, evaluation and synthesis of new and complex ideas;
•who are capable of transferring knowledge and ideas 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
The PhD programme allows students to gain the knowledge, skills, 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 in their professional fields and to understand and use most recent scientific 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 their scientific disciplines and science in general.
After the 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 to follow modern developments in their professional field;
•necessary skills and agility in applying their knowledge in the field of mathematics in engineering;
•mastery in the use of information and communication technologies.
The students are capable of designing, organizing and controlling the production process. During their education the students acquire the abilities to independently conduct experiments, statistically analyse their results as well as to define and come to the suitable conclusions.
PhD graduates of Mathematics in Engineering programme acquire the knowledge of how to economically use natural resources in accordance with sustainable development principles.
Particular attention is given to the development of team work skills and the development of professional ethics.
The acquired competence is also verified by scientific papers. Before obtaining the Graduate Diploma a candidate is expected to publish (or to have accepted for publication) at least one paper at the SCI journal list.

Standard 05. Curriculum

The curriculum of the Doctoral Academic Study Programme in Mathematics in Engineering is designed to meet the set goals. The structure of the study programme enables the students to choose optional courses which will be worth at least 70% of ECTS credits.

During the course of the doctoral academic studies students are encouraged to specialize in the specific field of study they are most interested in. Through optional courses they are able to take further interest in the scientific and research areas studied during the course of their graduate academic studies.

All courses last one semester and are worth a certain number of ECTS credits, one credit comprising approximately 30 hours of a student`s activity.

The curriculum defines every course of the study programme stating the following: course name, type of course, year and semester when the course is lectured, the number of ECTS credits, the name of the lecturer, the course objective with the expected outcome, the knowledge and competences the student will acquire, the prerequisites for taking the course, the course content, the recommended literature, the methods of lecturing, the knowledge tests and evaluation. Each course is designed in such a way that approximately half of the classes are conducted through lectures and the other half is given to study and research work. Study and research work is independent form of research work conducted by doctoral students in the chosen field and defined in coordination with the course professor.

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

The curriculum enables students to attend 7 courses during the first three semesters.

During the first semester one compulsory courses (Methods of Scientific Research) and two optional course are taught.

During the second and third semesters (each containing two optional courses) students elect optional courses after consulting their co-mentor, one being available to every student of the doctoral studies. These courses are a part of the main preparation for research work. Generally they can be followed also by other forms of improvement: participation in conferences, summer schools, workshops, as a result of independent research for which the student is specially educated.

The fourth semester is planned for theoretical and methodological preparations for elaboration of doctoral studies(Research study on Theoretical Bases of Doctoral Dissertation is a qualifying examination for the preparation of a doctoral dissertation in which students demonstrate that they have mastered the necessary theoretical knowledge in the scientific areas of interest) worth 30 ECTS credits which are taken in the form of an exam. Doctoral dissertation is an independent scientific work created during doctoral studies. The procedure of application, elaboration and defending of doctoral dissertations defined by special General act of the Faculty. (Procedure for application, elaboration and defending of doctoral studies). The right to take exam in Theoretical Bases in Doctoral Studies has a students who enrolled at the second year and passed all exams defined by study programme. After passing Theoretical Bases, the candidate is ready for elaboration and defending of doctoral dissertation, which he works on during the fifth and sixth semester and is 60 ECTS credits.

It is determined by the study programme that 50% of ECTS credits is reserved for preparation and elaboration of doctoral dissertation and that the number of ECTS credits for the doctoral dissertation is part of total number of ECTS credits necessary for the completion of doctoral studies.

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):

- Ability of understanding varius scientific metods witch was used in scientific literature
- Ability of successful managing in proffesonal literature
- Ability of successful writing of scientific paper in area of of interests
- Ability of successful creating and ending of doctoral dissertation

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 Poper	Logika naučnog otkrića	Nolit, Beograd	1973

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

Table 5.2 Course specification

Course:		Selected Topics in Computing		
Course id:	DAU014			
Number of ECTS:	13			
Teachers:		Konjović D. Zora, Popović V. Miroslav, Hajduković P. Miroslav, Vidaković P. Milan, Perišić R. Branko		
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:

Acquiring advanced knowledge in 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. Independent research and study in the area of computing.

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 dvelop an independent project.

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,	Nije primenljivo	Odabrani naučni radovi uz predmetne oblasti	različiti izdavači	2012

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-Quiuing 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. Saupe	Chaos and Fractals	Springer Verlag, New York	2004

Literature

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

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 evolvement 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	Mandatory	Points
Term paper	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	K. Binder, D.W. Heermann	Monte Carlo Simulation in Statistical Physics	Springer-Verlag	1988

Table 5.2 Course specification

Course:		Stochastic Processes in Telecommunications		
Course id:	DE110			
Number of ECTS:	13			
Teachers:		Bajić D. Dragana, Trpovski V. Željen		
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:

Additional knowledge on mathematical methods in telecommunications.

2. Educational outcomes (acquired knowledge):

Enabling candidates for individual and creative solving of the problem-type tasks based on stochastic processes.

3. Course content/structure:

Introduction: field of probability, random variables, conditional probability, moments, distribution, characteristic functions. Concepts of stochastic convergence and limit theorems. Bernoulli processes. Stationarity and ergodicity. Poisson processes: superposition, decomposition, composite, non-stationary. Renewable processes. Markov processes.
Part of the course is conducted through individual research and study work in the field of stochastic processes in telecommunications.
The study and research work is based on active study of primary scientific sources, organization and performance of experiments and statistic data processing, numerical simulations, and writing a paper in the narrow scientific area within the topic of the Doctoral dissertation.

4. Teaching methods:

Lectures. Study and research.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	50.00	Oral part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Papoulis	Probability, random variables and stochastic processes	Willey	1989

Table 5.2 Course specification

Course:		Fundamentals of Cryptography		
Course id:	DMUT01			
Number of ECTS:	13			
Teacher:		Mihaljević J. 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:

a) Mastering the basics of cryptology (a mathematical discipline which develops the techniques for providing protection and security of information and information systems) by learning about the primary methods and results of cryptology. b) Providing the basis for research work in the field of cryptology.

2. Educational outcomes (acquired knowledge):

Fundamental courses in mathematics.

3. Course content/structure:

1) Introduction to cryptology 2) Symmetric cryptography 3) Information protection based on symmetric key cryptography 4) Cryptographic hash function and authentification code 5) Pseudorandom permutations and block cipher algorithms 6) Symmetric key management 7) asymmetric cryptography 8) Information protection based on asymmetric key cryptography 9) Asymmetric key management 10) Digital signature.

4. Teaching methods:

Consultations and lectures.

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,	J. Katz and Y. Lindell	Introduction to Modern Cryptpgraphy	Chapman&Hall/CRC, Boca Raton, FL, USA	2008
2,	A. Menezes, P.C. van Oorschot and S. Vanstone	Appllied Cryptography	CRC Press, Boca Raton, FL, USA	2001

Table 5.2 Course specification

Course:		Reliability of Power Systems		
Course id:	DE106			
Number of ECTS:	13			
Teacher:		Nimrihter D. 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:

The main objective of the course is to acquire knowledge on the principles of planning development and maintenance of power, transfer and distribution companies, from the point of work in states with failures. Planning implies the analysis on the influence of elements and system in general onto the damages due to failure, as well as element and system management.

2. Educational outcomes (acquired knowledge):

Knowledge on the conditions for failure and their analysis within production, transfer and distribution companies. Knowledge on the methods and tools for modelling system behaviour in states with and without failure. Knowledge on the manners of managing financial means with the objective of the optimal selection of additional production, transfer and distribution capacities. Knowledge on the procedures for property management.

3. Course content/structure:

Stochastic process. Reliability of elements. Outages and scheduled maintenance. Managing economic and non-economic risks.
Generation system model. Line reliability modelling, plant reliability. Reliability of the power systems. Reliability of distributions systems. Improvement of distribution network reliability. Fault passage indicators. Remote signalization and control. Techno-economical analysis. Outage costs. Estimation of outage costs of different types of customers. Selecting optimal level of reliability.
Part of the course is conducted through individual research and study work in the field of reliability of power systems.
The study and research work is based on active study of primary scientific sources, organization and performance of experiments and statistic data processing, numerical simulations, and writing a paper in the narrow scientific area within the topic of the Doctoral dissertation.

4. Teaching methods:

Lectures. Study and research.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance	Yes	5.00	Oral part of the exam	Yes	70.00
Lecture attendance	Yes	5.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R.Bilinton, R.N.Allan	Reliability Evaluation of Power Systems	Pitman Press	1984
2,	Wenyuan Li	Risk Assessment of Power Systems-Models, Methods, and Applications	IEEE PRESS	2005
3,	Razni autori	Izabrani naučni članci iz oblasti analize, prognoze i upravljanja pouzdanošću.		xxx

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

Table 5.2 Course specification

Course:		Decision-Making and Optimization
Course id:	DE107	
Number of ECTS:	13	
Teacher:		Katić A. Nenad
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:

Acquiring fundamental knowledge on economic decision-making and economic optimization of distribution network power networks.

2. Educational outcomes (acquired knowledge):

Knowledge on the principles of economic decision-making, planning and economic optimization of distribution network power network.

3. Course content/structure:

Overall economy of business and decision-making in power engineering companies. Procurement and consumption of electric power and tariff system. Consumption costs of power distribution networks. Economic (profit) optimization of distribution network power plants. Economic load of built electric power facilities. Technical and economic analysis in planning the erection of electric power facilities. Automation of electric power distribution networks.
Part of the course is conducted through individual research and study work in the field of decision-making and optimization.Study and research work includes active following of the primary scientific sources, organization and carrying out of experiment and statistical data processing, numeric simulations, scientific paper writing in the field of the doctoral thesis.

4. Teaching methods:

Lectures or mentor work. Consultation. Study and research work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	50.00
Term paper	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	grupa autora	Zakon o energetici	Službeni glasnik Republike Srbije	2011
2,	N.Katić	Ekonomski metodi u elektroenergetici	skripta	2004
3,	E.Lakervi, E.J.Holmes	Electricity Distribution Network Design	Peter Peregrinus Ltd.,London	1989
4,	S.Stoft	Power System Economics	Wiley	2002
5,	D. Kirschen, G. Strbac	Power System Economics	John Wiley & Sons	2004
6,	N.Katić	Elektroprivreda u uslovima slobodnog tržišta	FTN	2012

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

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

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

Table 5.2 Course specification

Course:		Selected chapters in Analytical Mechanics		
Course id:	DM401			
Number of ECTS:	13			
Teacher:		Kovačić N. Ivana		
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:

Introducing students to classic terms in analytical mechanics.

2. Educational outcomes (acquired knowledge):

Ability to solve problems in the field of mechanical systems movement with analytical mechanics methods.

3. Course content/structure:

Dynamic connections classification. Movement classification. Lagrange izochrone variation. Generalization – non izochrone variation. Zurdenov, Gaussian and Manzzeron-Deleano variation. Lagrange-Dalamber principle of analytical mechanics. Lagrange equation of movement with nondetermined multiplicators. The connection between Lagrange – Dalamber principles and variational calculation. Hamilton variational principle of mechanics. Natural and forced two-point bourder conditions. Examples of formulating technical problems of dynamics by variational Hamilton principle.Hamilton canonian equations of analytical dynamics. Cannon transformations. Integration methods of cannon equations. Hamilton-Jacobi differential equation. Jacobi theoreme. First movement integral. Noether theorem. This program depends on candidate`s previous knowledge and can be adjusted to it.

4. Teaching methods:

Lectures. Mentor work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	40.00	Oral part of the exam	Yes	60.00

Literature

Ord.	Author	Title	Publisher	Year
1,	A. L. Lurije	Analitičeskaja mehanika	Gos. izd. FML Moskva	1961
2,	E.T. Whittaker	Analytical dynamics of particles and rigid bodies	Cambridge UP	1970
3,	G. Hamel	Theoretische Mechanik	Springer Berlin	1949

Table 5.2 Course specification

Course:		Selected Chapters in Process Modelling in Construction		
Course id:	GD021			
Number of ECTS:	13			
Teacher:		Ćirović S. Goran		
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 acquire knowledge on methods for modelling building processes (building construction, hydro construction and civil engineering construction).

2. Educational outcomes (acquired knowledge):

Enabling students to analyse building processes, elaborate models by applying research methods, as well as analyse risk in decision-making process. The acquired knowledge can be applied in further researches in the field of construction management, as well as in concrete practical applications.

3. Course content/structure:

Modelling a building process. Research methods (deterministic methods, probabilistic methods, heuristic methods, simulation models, expert methods). Decision-making process. Decision-making and risks. Risk management. Fuzzy logic in risk management. Neural networks in risk management.

4. Teaching methods:

Teaching are realized by lectures in the form of presentations of individual method units, as well as n tutorials. Students select a field for a seminar paper elaborated with consultations with the teacher. The examination covers the entire subject content presented during the semester and it is taken both in writing and orally. Examination grade comprises lecture attendance, seminar paper grades, written and oral examination.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	35.00
Term paper	Yes	60.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Novaković V.	Kvantitativni metodi u građevinskom menadžmentu	Izgradnja, Beograd	2002
2,	Petrić, J., Šarenac, L., Kojić, Z.	Operaciona istraživanja, Zbirka rešenih zadataka, Knjiga 1 i 2	Univerzitet u Beogradu	1978
3,	Praščević Ž.	Operaciona istraživanja u građevinarstvu – determinističke metode	GF Beograd	1992
4,	Opricović S.	Višekriterijumska optimizacija	Naučna knjiga, Beograd	1986
5,	Bronson, R.	Theory and Problems of OPERATIONS RESEARCH	Schaum"s outline series,McGraw-Hill,USA	1982
6,	Scheid, F.	NUMERICAL ANALLYSIS	Schamu"s Outline Series, McGRAW-HILL, New York	1982
7,	Wideman, R.M.	Project and Program RISK MANAGEMENT A Guide to Managing Project Risk and Opportunities	PMI, A Publication of the Pr. Manag. Inst., Penn	1992

Table 5.2 Course specification

Course:		Parallel Computing		
Course id:	DMUT02			
Number of ECTS:	13			
Teachers:	Davidović M. Tatjana, Ognjanović D. Zoran, Urošević -. 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:

Acquiring fundamental theoretical and practical knowledge about parallel computing and taking part in scientific research.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and methods of parallel computing. Participating in research work in certain areas which use parallel computing, chosen by students who work with scientists from the country and abroad.

3. Course content/structure:

Parallel computation models. Parallel systems with shared memory. Parallel systems based on message passing. Programming languages for parallel computing. MPI (Message Passing Interface) Standard. Parallel algorithm realization for numerical and symbolic problem solving. Beowulf cluster programming.

4. Teaching methods:

The presentation of the theoretical part of the material during the lecture classes is followed by the corresponding examples which contribute to the better understanding of the subject matter. The students independently study the suggested literature which they later discuss with the lecturers at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	K. Hwang, D. DeGroot	Parallel processing for supercomputers and AI	McGraw-Hill	1989
2,	D.P. Brrtsekas, J. N. Tsitsiklis	Parallel and distributed computing (numerical methods)	Prentice-Hall	1989
3,	G. C. Fox	Solving problems on concurrent processors	Prentice-Hall	1989
4,	Liu, M. L.	Distributed Computing: Principles and Applications	Pearson, Addison Wesley	2004

Table 5.2 Course specification

Course:		Applied Analysis of Physical and Chemical Parameters		
Course id:	ZDO03			
Number of ECTS:	13			
Teachers:		Radonić R. Jelena, Španik J. Ivan, Turk-Sekulić M. Maja, Vojinović-Miloradov B. Mirjana		
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:

Improvement of theoretical knowledge, competencies and skills in the field of environmental engineering and detailed theoretical and applied analysis of key physical and chemical parameters in environmental engineering.

2. Educational outcomes (acquired knowledge):

Acquiring necessary level of knowledge, skills and competencies of multidisciplinary field of environmental engineering with a specific theoretical and applicative analysis of physical-chemical characteristics, the dominant process in the field of environmental protection.

3. Course content/structure:

Introduction to applied analysis of physical-chemical characteristics and parameters which are dominant in the field of environment protection. Interface surface phenomena. Chemical and physical adsorption and energy. Absorption. Kinetics of physical-chemical reactions. Kinetics of photo-chemical reactions Macro-molecules. Biomacromolecules. Nanomolecules. Cluster systems of organic molecules. Fullerenes, endohedral and egzohedral molecules. Nano phenomena and nano technologies. Supramolecules and supramolecular systems.

4. Teaching methods:

Lectures, seminars, project task.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	25.00
Laboratory exercise attendance	Yes	5.00	Oral part of the exam	Yes	25.00
Lecture attendance	Yes	5.00			
Project task	Yes	15.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Jean-Marie Lehn	Supramolecular Chemistry: Concepts and Perspecitves	Wiley-VCH	1995
2,	Peter Atkins, Julio De Paula	Atkins" Physical Chemistry	Oxford University Press	2006
3,	James I Drever	The Geochemistry of Natural Waters	Prentice Hall	1982

Table 5.2 Course specification

Course:		Selected Topics in Computer System Architectures		
Course id:	DRT02			
Number of ECTS:	13			
Teacher:		Kovačević D. Vladimir		
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:

Mastering facilities in the area of computer systems architecture.

2. Educational outcomes (acquired knowledge):

Mastering facilities in the area of computer systems architecture

3. Course content/structure:

Overview of modern programming tools for the development of digital systems. Overview of modern methods and techniques for the synthesis of digital systems. Overview of modern environment for testing and verification of possible routes of digital systems. Stating further research. Defining topics and tasks. Implementation. Experiments. Writing a paper. Review and defense of the paper.

4. Teaching methods:

Classes are held through presenting current and possible new research directions through introductory lectures, the choice of topics and formulation of the task in cooperation with the mentor, making simulators, laboratory models and prototype solutions, a series of laboratory experiments in order to collect necessary data, writing a paper, and its review by the subject teacher.

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,	grupa autora	Odabrani naučni radovi iz predmetne oblasti		nema

Table 5.2 Course specification

Course:		Optimization of the Goods Transportation Process		
Course id:	SDI6			
Number of ECTS:	13			
Teachers:		Gladović V. Pavle, Krstanoski -. Nikola, Simeunović M. Milan		
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:

Understanding modelling knowledge in procedures of optimization and transportation systems management.

2. Educational outcomes (acquired knowledge):

Application, improvement and development of model for transportation process optimization.

3. Course content/structure:

Information systems for tracking and management of transportation. Tracking methods of natural and financial results of working in transportation process. Transportation processes modelling. Criteria for exploitation effectiveness of freight vehicles. Functional optimization of freight cars exploitation. Methods of transportation process technological optimization. Economic optimization of freight cars exploitation.

4. Teaching methods:

Lectures, audit practice, elaboration of professional paper and presentation.

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,	Pavle Gladović	Tehnologija drumskog saobraćaja	FTN, Novi Sad	2006
2,	Pavle Gladović, Milan Simeunović	Sistemi javnog autotransporta robe	FTN, Novi Sad	2004
3,	M. Marković	Optimizacija prevoznog procesa u automobilskom transportu	Saobraćajni fakultet u Beogradu	2003
4,	C. S. Kuznjecov	Upravlenie tehničeskoj eksploatacijej automobilej	Transport, Moskva	1990
5,	H. Wagner	Economie des transports	Transpres, Berlin	1979

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

Table 5.2 Course specification

Course:		Functional Analysis 1		
Course id:	D0M01			
Number of ECTS:	14			
Teachers:		Kovačević M. Ilija, Kostić Z. Marko, Grbić P. Tatjana		
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:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of Functional Analysis (Topological spaces; Metric spaces, Normed spaces, Hilbert spaces, Measure theory, Lebesgue integral)

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in further education and to postulate and solve mathematical models from functional analysis in engineering subjects.

3. Course content/structure:

Theoretical aspects: Fundamentals of topology (Topological spaces; Metric spaces; Functions; Compactness; Connectivity; Complexity; Fixed point theorems). Normed spaces, L(X,Y) spaces, Hilbert spaces; Fourier analysis of Hilbert spaces. Three basic theorems of functional analysis. Bounded and linear operators. Spectral theory of bounded operators; Freshoe and Gatto operator inference. Topologival vector spaces, Lebesgue measure and Lebesgue integral. 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. 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,	I.Kovačević,N.Ralević	Funkcionalna analiza	FTN (edicija tehničke nauke-udžbenici), Novi Sad	2004
2,	N.Ralević,I.Kovačević	Zbirka rešenih zadataka iz Funkcionalne analize	FTN (edicija tehničke nauke-udžbenici), Novi Sad	2004
3,	O.Hadžić	Fixed Point Theory in Topological Vector Spaces	Univerzitet u Novom Sadu, Institut za matematiku ,Novi Sad	1984
4,	S.Kurepa	Matematička analiza	Školska knjiga, Zagreb	1981

Table 5.2 Course specification

Course:		Partial Differential Equations		
Course id:	D0M02			
Number of ECTS:	14			
Teacher:		Ralević M. Nebojša		
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 enable students to think abstractly and acquire knowledge in partial differential equations.

2. Educational outcomes (acquired knowledge):

Acquired knowledge utilized in professional subjects and practical work and designing and solving mathematical models in professional subjects using acquired knowledge in partial differential equations.

3. Course content/structure:

Theoretical classes (lectures): Partial differential equations PDE (introductory definitions; Couchy-Kovalevska theorem). First grade equations (characteristics method). Second grade equations (classification; cannonic forms; characteristic multiplicity for higher grade equations). Couchy`s problem for onedimensional wave equation-integral of energy. Multiple problem for onedimenisonal wave equation – Furey method. Couchy`s problem for equation of heat conducting – maximum principle. Dirichlet and Neuman problem for Laplace equation – maximum principle. Numeric solving of PDE. Utilization of computers for solving PDE. Sobolev spaces. Equation of mathematical physics. Schrodinger equation. Euler and Navier-Stokes equations. Part of the teaching is realized through independent research and study work in the field of mathematics. Research and study work includes active following of primary scientific sources, organization and conducting experiments and statistical data processing, numeric simulation, possible writing of scientific paper in the field of mathematics.

4. Teaching methods:

Lectures. Consultations. Lectures are realized by combining theory and practice. Theoretical part is followed by appropriate examples which lead to clarification of the theoretical part. Apart from lectures and practical classes, consultations are held regularly. Part of subject content, which represents a logical unity, can be taken as a part of the exam during the teaching process. During lectures (through project work) it is necessary to prove elementary knowledge of at least one program packages (Maple, Matlab. Mathematica) needed for sloving PDE. Part of subject content as agreed upon and which makes unity is can be taken orally as a presentation and submitted in written form as a seminar paper. Oral part of the final exam is eliminatory. Through research and study work, student studies scientific journals and other relevant literature and individually expands subject content covered in classes. In cooperation with professor, student is enabled for independent writing of scientifi

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Project defence	Yes	10.00	Practical part of the exam - tasks	Yes	30.00
Term paper	Yes	15.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	T. Dauxois, M. Peyrard	Physics of Solitons	Cambridge University Press, Cambridge, New York	2006
2,	R.K.Dodd, J.C.Eilbeck, J.D.Gibbon, H.C.Morris	Solitons and Nonlinear Wave Equations	Academic Press Inc.	1982
3,	P. R. Garabedian	Partial Differential Equations	Wiley	1964
4,	E. Pap	Parcijalne diferencijalne jednačine	Univerzitet u Novom Sadu, Institut za matematiku	1986
5,	E. Sapiro	Geometric Partial Differential Equations and Image Analysis	Cambridge University Press, Cambridge, New York	2001
6,	V.S. Vladimirov	Equations of Mathematical Physics	Nauka	1980
7,	Z. Rubinstein	A Course in Ordinary and PartialDifferential Equations	Academic Press, New York – London	1969
8,	T. Roubiček	Nonlinear Partial Differential Equations with Applications	Birkhauser	2005

Table 5.2 Course specification

Course:		Operational Research		
Course id:	D0M03			
Number of ECTS:	14			
Teacher:		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:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of operational research.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Markov processes, Birth-death processes, Poisson processes, Queueing theory, Markovian model; Combined arrivals and departures, Priorities, Series queues, Queues with general distribution, Analysis by imbedded Markov chain. Part of the course is organized in the form of independent study and research work 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. Consultations. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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,	Hamdy Taha	Operational Research	Macmillan Publ.Co., New York	1988
2,	Svetozar Vukadinović	Sistemi masovnih opsluživanja	Naučna knjiga	1988

Table 5.2 Course specification

Course:		Random Processes		
Course id:	D0M04			
Number of ECTS:	14			
Teacher:	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:

Enabling students to think abstractly and acquire basic knowledge in the field of random processes.

2. Educational outcomes (acquired knowledge):

Student is enabled to develop and solve mathematical models in the field of random processes in further education and professional subjects.

3. Course content/structure:

Depending on the chosen area of applied mathematics in engineering, some of the random processes classes will be covered in detailed: Stationary, Markov, overhauling, Gauss, diffusion, martingale, complex processes, Reversible processes, Decision-making processes, branching processes, Brown movement.
Part of the teaching is realized through independent research and study work in the field of mathematics. Research and study work includes active following of primary scientific sources, organization and conducting experiments and statistical data processing, numeric simulation, possible writing of scientific paper in the field of mathematics.

4. Teaching methods:

Lectures, Consultations. The presentation of the theoretical part is followed by the corresponding examples for easier understanding of subject content. 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. In cooperation with professors, student is enabled to independently write scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	40.00	Oral part of the exam	Yes	60.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Sheldon Ross	Probability models	Academic Press	1997
2,	Athanasios Papoulis	Probability, random variables, stochastic processes	McGraw Hill	2002

Table 5.2 Course specification

Course:		Semantics of Programming Languages		
Course id:	D0M05			
Number of ECTS:	14			
Teachers:		Gilezan K. Silvia, Mijajlović -. Žarko		
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:

Acquiring fundamental knowledge about semantics of programming languages and participating in scientific and research work. .

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of semantics of programming languages. Research in the narrow area of semantics, based on student`s interests and in cooperation with researchers in the country and abroad.

3. Course content/structure:

Denotational semantics. Operational semantics. Axiomatic semantics.

4. Teaching methods:

The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the subject teacher at the consultation classes. Through research and study work the student will, on the bases of scientific journals and other literature, 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,	G. Winskel	The Formal Semantics of Programming Languages	MIT Press, Boston	1993
2,	R. Amadio, P.-L. Curien	Domains of Lambda Calculi	Cambridge University Press	1999

Table 5.2 Course specification

Course:		Logic in Computer Science		
Course id:	D0M06			
Number of ECTS:	14			
Teacher:		Gilezan K. Silvia		
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:

Acquiring fundamental knowledge in the field of mathematical logic and its application in computing as well as participating in scientific and research work. .

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of mathematical logic. Participating in the research in the particular area of logic, based on student`s interests and in cooperation with researchers in the country and abroad.

3. Course content/structure:

Propositional calculus: axiomatic systems, natural deduction, sequent calculus. Predicate calculus. Proof theory. Godel`s incompleteness theorem. Modal logic. Temporal logics. Set theory.

4. Teaching methods:

The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. Through research and study work the student will, on the bases of scientific journals and other literature, 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,	P. Janičić	Matematička logika u raunarstvu		2007
2,	K.Došen, Z.Marković, Ž.Mijajlović	Hilbertovi problemi i logika	Zavod za udžbenike i nastavna sredstva, Beograd	1986
3,	<end>A. Nerode, R. Shore	Logic for Application	Springer-Verlag, Berlin	1996
4,	G. Winskel	Introduction to Modal Logic		1995

Table 5.2 Course specification

Course:		Mathematical Foundations of Fuzzy Systems		
Course id:	D0M07			
Number of ECTS:	14			
Teachers:		Grbić P. Tatjana, Mihailović P. Biljana, Pap E. Endre, Ralević M. Nebojša		
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:

Enabling students to develop abstract thinking and acquire knowledge about the theory of fuzzy systems.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice, postulate and solve mathematical models in engineering subjects using the knowledge about fuzzy systems.

3. Course content/structure:

Theoretical part of the course (lectures): Aggregation operators. Fuzzy and ordinary sets. Operations with fuzzy sets. Fuzzy arithmetic. Fuzzy relations and relational equations. Fuzzy measures and integrals. Fuzzy logic. Part of the course is organized in the form of independent study and research work in the field of mathematics. The study and research work is based on active study of primary scientific sources, organization and performing of experiments, and statistical processing of data, numerical simulations, with the option of writing a paper in the field of mathematics.

4. Teaching methods:

Lectures. 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. The students can take partial exams during the course. A part of the course material (which represents a unit of course subject matter) is presented orally and submitted as a written seminar paper. The oral part of the final examination is eliminatory. 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
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Project defence	Yes	10.00	Practical part of the exam - tasks	Yes	25.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Grabisch M., Nguyen H. Walker E. A.	Fundamentals of Uncertainty Calculi with Application to Fuzzy Inference	KluwerAcademicPublishers,Dordrecht-Boston-London	1995
2,	P. Klement, R. Mesiar, E. Pap	Triangular norms	Kluwer Academic Publishers, Dordrecht	2000
3,	Klir J. G., Yuan B.	Fuzzy Sets and Fuzzy Logic: Theory and Applications	Prentice Hall PTR Upper Saddle River, New Jersey	1995
4,	V. P. Maslov, S. N. Samborskij (eds.)	Idempotent Analysis	Adv. in Soviet Math.13, Amer.Math.Soc.,Provid.	1992
5,	Pap E.	Fazi mere i njihova primena	Univ. u Novom Sadu, Prirod. Mat. Fak., Novi Sad	1999
6,	Wang, Z., Klir J. G.	Fuzzy Measure Theory	Plenum Press, New York and London	1992

Table 5.2 Course specification

Course:		Models of Computation		
Course id:	D0M11			
Number of ECTS:	14			
Teachers:		Gilezan K. Silvia, Marković M. Zoran, Ognjanović D. Zoran		
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				

1. Educational goal:

Acquiring fundamental knowledge in the field theory of computation and participating in scientific and research work.

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of theory of computation. Participating in research in particular models of computation, based on student`s interests and in cooperation with researchers in the country and abroad.

3. Course content/structure:

Fundamantals of mathematical logic. Turing machines. Recursive functions. Lambda calculus without types: syntax and semantics. Lambda calculus with types: syntax and semantics.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	H.P.Barendrekt	Lambda Calculus: Its Syntax and Semantics	North-Holland, Amsterdam	1984
2,	C. Hankin	Lambda Calculi: A Guide for Computer Scientists	Oxford University Press	1994

Table 5.2 Course specification

Course:		Introduction to Functional Programming Languages		
Course id:	D0M12			
Number of ECTS:	14			
Teacher:		Gilezan K. Silvia		
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				

1. Educational goal:

Acquiring fundamental knowledge about functional programming lanuages and participating in scientific and research work.

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of functional programming languages theorem proofs. Participating in research in the particular aspect of the subject area, based on student`s interests and in cooperation with researchers in the country and abroad.

3. Course content/structure:

Functional programming languages without types: LISP, SCHEME. Functional programming languages with types: ML, HASKELL, Theorem prover HOL, ISABELLE, COQ, LEGO.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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
Computer excersise defence	Yes	10.00	Theoretical part of the exam	Yes	50.00
Term paper	Yes	40.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	J. Mitchell	Foundation of Programming Languages	MIT Press, Boston	1996
2,	M. Gordon	Programming Languages Theory and Its Implementation	Prentice Hall	1988
3,	L.C. Paulson	Isabelle: A Generic Theorem Prover	Springer-Verlag, Berlin	1994

Table 5.2 Course specification

Course:		Theory of Mobile Processes		
Course id:	D0M13			
Number of ECTS:	14			
Teachers:		Gilezan K. Silvia, Pantović B. Jovanka		
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				

1. Educational goal:

Acquiring fundamental knowledge about Theory of mobile processes. Participating in scientific and research work.

2. Educational outcomes (acquired knowledge):

2. Educational outcomes (acquired knowledge): Knowledge about fundamental notions and tools for studying calculi of mobile processes and work in national and international scientific-research teams.

3. Course content/structure:

Introduction to mobile processes: processes, communication, concurrency, mobility and interference. Behaviour of mobile processes: transition and bisimilarity relations, structural equivalences and reductions, equational theories, logics and types. Calculi of concurrent and mobile processes: Pi-Calculus, Ambient Calculus, dPi-Calculus, XdPi-Calculus, etc. Optional field (modelling web data and documents, programming languages based on mobile processes, reasoning including communication protocols, modal logics for mobile processes, etc.)

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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,	Milner,R.,Parrow,Z., Walker, D.	A calculus of mobile processes. Part I and II.	Information and Computation, 100 (1)	1992
2,	Robin Milner	Communication and concurrency	Prantice Hall	1989

Table 5.2 Course specification

Course:		Process Algebra		
Course id:	D0M14			
Number of ECTS:	14			
Teachers:	Gilezan K. Silvia, Pantović B. Jovanka			
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				

1. Educational goal:

Acquiring fundamental knowledge about process algebras and participating in scientific and research work.

2. Educational outcomes (acquired knowledge):

Introduction to theory of reactive and concurrent systems.

3. Course content/structure:

Labeled Transitions Systems. CCS. Pi-calculus. Strong Bisimilarity. Weak Bisimilarity. Henessy-Milner Logic. Tarski's Fixed Point Theorem. Henessy-Milner Logic with Recursion. Timed Automata. Binary Decision Diagrams. Applications of Binary Decision Diagrams.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Davide Sangiorgi, David Walker	The Pi-Calculus - A Theory of Mobile Processes	Cambridge University Press	2003
2,	Joakim Parrow	An introduction to the pi-calculus, In Handbook of Process Algebra, ed. Bergstra, Ponse, Smolka	Elsevier	2001
3,	Luca Aceto, Anna Ingólfsdóttir, Kim Guldstrand Larsen and Jiri Srba	Reactive Systems: Modelling, Specification and Verification	Cambridge University Press	2007

Table 5.2 Course specification

Course:		Statistics		
Course id:	D0M15			
Number of ECTS:	14			
Teacher:		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:

Acquiring the ability of abstract thinking and fundamental knowledge about statistics.

2. Educational outcomes (acquired knowledge):

Students are able to postulate and solve mathematical models in statistics in their further education in engineering subjects.

3. Course content/structure:

Parametric point estimation, Characteristics, Unbiased estimations, Bayes estimators
Parametric interval estimation, Test of hypotheses, The analysis of variance,
Linear regression and correlation, Distribution free procedures, Application in engineering.
Part of the course is organized in the form of independent study and research work 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 possibly writing a paper in the field of mathematics

4. Teaching methods:

Lectures. Consultations. The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. 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,	B.S.Everit	Statistics	Cambridge University Press	2006

Table 5.2 Course specification

Course:		Differential Equations		
Course id:	D0M16			
Number of ECTS:	14			
Teacher:		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	4	0
Precondition courses		None		

1. Educational goal:

Acquiring fundamental methods for numerical solution of differential equations and enabling students to use the acquired knowledge in other general and engineering subjects.

2. Educational outcomes (acquired knowledge):

Students are able to analyze and solve mathematical models described by differential equations in practice and in their further education in engineering subjects.

3. Course content/structure:

Ordinary differential equations (initial value problems). Ordinary differential equations (boundary value problems); finite difference method, collocation method, finite element method. Singularly perturbed boundary value problems. Partial differential equations: finite difference method for elliptic partial differential equations, finite difference method for wave equation, finite difference method for heat transfer eqation.

4. Teaching methods:

Lectures. Consultations. The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. In addition to lectures, there are regular consultations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Practical part of the exam - tasks	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Samarski, A. A.	Teorija diferencijalnih šema	Nauka, Moskva	1983
2,	Kincaid, D., Cheney, W.	Analysis - Mathematics of Scientific Computing	Brooks/Cole Publishing Company, California	1991
3,	D. Herceg, N. Krejić	Numerička analiza	Stylos	1997
4,	Herceg,D, Herceg,Dj.	Numerička matematika	Stylos	2003
5,	Mathews,J.H.	Numerical Methods for Mathematics, Sciences and Endineering	Prentice-Hall Inc.	1992

Table 5.2 Course specification

Course:		Combinatorics		
Course id:	D0M17			
Number of ECTS:	14			
Teachers:		Doroslovački D. Rade, Simić K. 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:

Enabling students to develop abstract thinking and acquire basic knowledge in the field of classic and modern combinatorics.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in further education and in engineering subjects, to postulate and solve mathematical models in engineering subjects using the knowledge acquired at this course.

3. Course content/structure:

Basics of configuration. Polynomials. Inclusion-exclusion principle. Permutation. Recurrent formulas. Fibonacci numbers. Generating functions. System of distinct representatives. Combinatorics on words. Latin squares. Finite geometries. Codes. Study and research work is organized in the form of seminar papers which are practically oriented and are based on the above mentioned combinatorics topics.

4. Teaching methods:

The teaching process consists of theoretical part and practice classes where various practical problems are solved using the knowledge of the theoretical part. 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
Lecture attendance	Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	D. Cvetković, S.Simić	Kombinatorika klasična i moderna	Nučna knjiga, Beograd	1984
2,	R. Tošić	Kombinatorika	Univerzitet u Novom Sadu, Novi Sad	1999
3,	R. Doroslovački, O. Marković	Kombinatorika na rečima	Feljton, Novi Sad	2000

Table 5.2 Course specification

Course:		Numerical Analysis		
Course id:	D0M18			
Number of ECTS:	14			
Teacher:	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	4	0
Precondition courses	None			

1. Educational goal:

To enable students to think abstractly and acquire knowledge in numeric mathematics.

2. Educational outcomes (acquired knowledge):

Student is competent to utilize methods of numeric solution of mathematic models in practical work and further education.

3. Course content/structure:

Numeric solution of linear equations system: direct procedures, iterative procedure. Numeric solving of non linear equations. Numeric solving of non linear equation systems. Interpolation and approximation: methods of interpolation, average square approximation, approximation by splines, spectral approximation. Numeric integration: Newton-Cotes formulae, square formulae Gaussian type.

4. Teaching methods:

Lectures. Consultations. Theoretical part is presented in lectures and it is followed by adequate examples with the aim of better understanding of the subject. Along with lectures, regular consolations are held.

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,	Radunović,D.	Numeričke metode	Gradjevinska knjiga, Beograd	1995
2,	Herceg, D. Krejić, N.	Numerička analiza	Stylos, Novi Sad	1997
3,	Herceg, D. , Herceg,Dj.	Numerička matematika	Stylos, Novi Sad	2003
4,	Mathews, J. H	Numerical Methods for Mathematics, Sciences and Engineering	Prentice - Hall Inc., 1992	1992
5,	Herceg, D. Krejić, N.	Numerička analiza	Stylos, Novi Sad	1997

Table 5.2 Course specification

Course:		Graph Theory		
Course id:	D0M20			
Number of ECTS:	14			
Teacher:		Doroslovački D. Rade		
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 enable students to abstract thinking and to acquire basic knowledge in the field of graph theory.

2. Educational outcomes (acquired knowledge):

To utilize acquired knowledge in further education and professional subjects, development and solving mathematical models in professional subjects utilizing subject content.

3. Course content/structure:

Operations with graphs. Connections. Trees. Eulerian and Hamiltonian graphs. Planned graphs. Graph colouring. Digraphs and tournaments. Graph core. Graphs and plays. Matrix graph representations. Algorithms on graphs. Graph spectrum. Research and study work includes elaboration of seminar papers in the field of graph theory, i.e., constructing algorithms and programming of practical problems for which knowing graph theories is necessary.

4. Teaching methods:

Teaching process consists of theoretical lectures and practice classes based on solving various practical problems by utilizing acquired theoretical knowledge. Through research and study work and following of scientific journals and other literature, student individually expands teaching content. In collaboration with the teacher, student is enabled for independent writing of 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,	Vojislav Petrović	Teorija Grafova	Univerzitet u Novom Sadu	1998
2,	I. Bošnjak, D. Mašulović, V. Petrović, R. Tošić	Zbirka zadataka iz teorije grafova	Univeryitet u Novom Sadu, Novi Sad	2005

Table 5.2 Course specification

Course:		Fuzzy Systems and Their Applications		
Course id:	D0M21			
Number of ECTS:	14			
Teachers:		Grbić P. Tatjana, Mihailović P. Biljana, Ralević M. Nebojša, Štajner-Papuga V. Ivana		
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:

Enabling students to develop abstract thinking and acquire fundamental knowledge about the selected topics in mathematics such as data bases, pattern recognition, image processing, decision theory and the application of fuzzy systems in these fields.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice, postulate and solve mathematical models in engineering subjects using the knowledge about fuzzy systems.

3. Course content/structure:

Theoretical part (lectures). Aggregation operators. Fuzzy and ordinary sets. Operations with fuzzy sets. Fuzzy arithmetic. Fuzzy relations and relational equations. Fuzzy measures and integrals. Fuzzy logic. Approximate reasoning. Fuzzy systems. Fuzzy data bases. Pattern recognition. Fuzzy decision theory. Engineering applications. Application of fuzzy systems in medicine, economics, ecology. Computer use – fuzzy toolbox. Part of the course is organized in the form of independent study and research work in the field of mathematics. The study and research work is based on active study of primary scientific sources, organization and performing of experiments, and statistical processing of data, numerical simulations, with the option of writing a paper in the field of mathematics.

4. Teaching methods:

Lectures. 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. The students choose in coordination with the course teacher 1-3 areas and can also take partial exams in each of these areas during the course. A student is expected to write a seminar paper in one of these subject areas which is presented orally. During the course the students do a project-program (C,Pascal,Matlab,Mathematica) for a given problem. The oral part of the final examination is eliminatory. 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 scientif

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	55.00
Project defence	Yes	20.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Grabisch M., Nguyen H. Walker E. A.	Fundamentals of Uncertainty Calculi with Application to Fuzzy Inference	KluwerAcademicPublishers, Dordrecht-Boston-London	1995
2,	P. Klement, R. Mesiar, E. Pap	Triangular norms	Kluwer Academic Publishers, Dordrecht	2000
3,	Klir J. G., Yuan B.	Fuzzy Sets and Fuzzy Logic: Theory and Applications	Prentice Hall PTR Upper Saddle River, New Jersey	1995
4,	V. P. Maslov, S. N. Samborskij (eds.)	Idempotent Analysis	Adv. in Soviet Math.13, Amer.Math.Soc., Provi.	1992
5,	Pap E.	Fazi mere i njihova primena	Univ. u Novom Sadu, Prirod. Mat. Fak., Novi Sad	1999
6,	Wang, Z., Klir J. G.	Fuzzy Measure Theory	Plenum Press, New York and London	1992

Table 5.2 Course specification

Course:		Multiple-Valued Logic		
Course id:	D0M22			
Number of ECTS:	14			
Teachers:		Pantović B. Jovanka, Vojvodić D. Gradimir		
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:

Acquiring fundamental knowledge about logic synthesis and theory of optimization of logical circuits.

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of Boolean algebra and multiple-valued logic.

3. Course content/structure:

Boolean Algebra. Boolean Functions. Multiple Valued Functions. Binary Decision Diagrams. Multiple Valued Decision Diagrams. Application of Decision Diagrams.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Bernd Becker; Rolf Drechsler	Binary Decision Diagrams: Theory and Implementation.	Springer	1998
2,	Stanley N. Burris and H.P. Sankappanavar	A Course in Universal Algebra	Springer	2000

Table 5.2 Course specification

Course:		Clone Theory		
Course id:	D0M23			
Number of ECTS:	14			
Teacher:		Pantović B. Jovanka		
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				

1. Educational goal:

Acquiring fundamental knowledge about clone theory and participating in scientific and research work.

2. Educational outcomes (acquired knowledge):

Knowledge about fundamental notions and results in the field of algebra and clone theory. Participating the research related to in the narrow research area of clone theory chosen by the student in cooperation with researchers from the county and abroad.

3. Course content/structure:

Fuctional and relational algebras. Clone lattice. Maximal and minimal clones. Completenes, functional and relative. Classification of operations and bases. Clones of partial operations. Clones of hyperoperations. Application to CSP. Optional field.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the characteristic examples which contribute to better understanding of the subject matter. The students are expected to individually study the additional literature which they discuss with the . subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	R. Poeschel, L.A. Kalužnin	Funktionen- und Relationenalgebren. Ein Kapitel der diskreten Mathematik	VEB Deutcher Verlag der Wissenschaften, Berlin	1979
2,	G.Gindikin	Algebraic logic	Springer-Verlag	1985
3,	Agnes Szendrei	Clones in Universal algebra	Les presses de l'Universite de Montreal, Montreal	1986

Table 5.2 Course specification

Course:		Numerical Solutions of Differential Equations		
Course id:	D0M24			
Number of ECTS:	14			
Teacher:		Adžić Z. Nevenka		
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				

1. Educational goal:

Students will be able to numerically solve mathematical models with problems described by different differential equations.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used for solving mathematical models in engineering subjects.

3. Course content/structure:

Numerical solutions of initial and boundary value problems for ordinary and partial differential equations using differential schemes and splines. Spectral methods for numerical solution of initial and boundary value problems for simple differential equations. Singularly perturbed problems. Part of the course is carried out through individual study and research work in the field of mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Teaching is organized in the form of consultations. During the course the student is obliged to write and defend a seminar paper. Through study and research work the students are expected to individually study scientific journals and additional literature to 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	Written part of the exam - tasks and theory	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Nevenka Adžić	Numerika		2001
2,	D. Kincaid i W. Cheney	Numerical Analysis	Pacific Grove, California	1991
3,	A.A. Samarskij	Uvod u numeričke metode	Nauka, Moskva	1982

Table 5.2 Course specification

Course:		Application of Linear Algebra in Engineering		
Course id:	D0M26			
Number of ECTS:	14			
Teachers:		Cvetković D. Ljiljana, Kostić R. Vladimir		
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:

Students will develop the ability of abstract thinking and acquire fundamental knowledge in the field of liner algebra as well as its application in engineering.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in further education and in engineering subjects, the knowledge of linear algebra is related to different areas of mathematics and engineering.

3. Course content/structure:

The role of matrices in mathematical modeling. Singular Value Decomposition. Projective methods. Localization of characteristic roots. Liner differential and differential equations. Generalized eigenvalue problem.

4. Teaching methods:

Teaching is organized in the form of theoretical lectures and consultations which are based on solving different practical problems using the acquired theoretical knowledge. Through study and research work the students are expected to individually study scientific journals and additional literature to 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	40.00	Written part of the exam - tasks and theory	Yes	60.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Lloyd N. Trefethen, David Bau, III <\eng>	Numerical Linear Algebra <\eng>	SIAM <\eng>	1997
2,	James W. Demmel <\eng>	Applied Numerical Linear Algebra <\eng>	SIAM <\eng>	1997
3,	Leslie Hogben <\eng>	Handbook of Linear Algebra <\eng>	CRC Press <\eng>	2007

Table 5.2 Course specification

Course:		Digital Geometry		
Course id:	D0M28			
Number of ECTS:	14			
Teacher:		Sladoje Matić I. Nataša		
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 objective of the course is to introduce basic concepts of digital geometry, main topological and metric properties of digital spaces, representations and properties of discrete sets, and basics of mathematical morphology with some applications. The suggested topics may be of interest from both theoretical and practical aspects. They offer a possibility to study a mathematical theory related to digital space, nowadays forced upon us by the intensive presence of computers in our everyday life. In addition, a variety of possible applicatanios is suggested, and can be explored as well. The course is an introduction to any image processing and computer graphics course.

2. Educational outcomes (acquired knowledge):

Understanding of digital spaces and their specificities. Theoretical knowledge about digital objects which can be both further theoretically studied and developed, and applied in various fields of computer science, in particular in image processing and computer graphics.

3. Course content/structure:

1. Introduction: Discretization, digitization. Tessellations and grids. Voronoi cells and Delaunay triangulation. Regular and semi-regular grids.
2. Digital spaces: Basic definitions. Interior and exterior. Neighbourhoods. Connectedness. Topological digital spaces.
3. Representations of some geometrical entities; Digitization of a continuous line. Characterization of a digital straight line segment. Digital circles. Digital set (shape) representation and description.
4. Metric properties of discrete sets; Measuring length, area, surface area, volume. Local and global approaches. Multigrid convergence.
5. Mathematical morphology; Basic morphological concepts. Binary erosion and dilation. Thinning, thickening, skeletonization, convex hull.
6. Distance transforms. Distance transforms in a square grid (path generated distance transforms, weighted distance transforms, Euclidean distance transforms). Application of distance transforms.
Part of the course is organized in the form of independent study and research work in the field of discrete mathematics and digital geometry. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	G. T. Herman<\eng>	Geometry of digital spaces<\eng>	Birkhauser<\eng>	1998
2,	G. Bertrand, A. Imiya, and R. Klette (Eds.)<\eng>	Digital and image geometry, advanced lectures, Lecture Notes in Computer Science 2243<\eng>	Springer-Verlag<\eng>	2001
3,	razni	Odabrani stručni materijal (naučni radovi, izvodi iz predavanja i sl.)		2000

Table 5.2 Course specification

Course:		Image Processing 1		
Course id:	D0M29			
Number of ECTS:	14			
Teacher:		Sladoje Matić I. Nataša		
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 objectives of the course are to introduce basic concepts of digital images and image processing. The suggested topics provide information on main tasks and methodologies in image processing, being focused on practical problems and real world applications. The course is intended to be a basis for further study and research in this field.

2. Educational outcomes (acquired knowledge):

The suggested topics provide knowledge of main concepts and methodologies for digital image processing.

3. Course content/structure:

1. Fundamentals of Digital Images: Fundamental steps in digital image processing. Imaging systems and image acquisition. Sampling and quantization. Representing digital images. Topology of digital images.
2. Image Enhancement: Histogram processing. Arithmetic/logic operations. Spatial filtering. Fourier transform and filtering in the frequency domain.
3. Morphological Image processing: Morphological operations (erosion, dilation, opening, closing). Morphological algorithms (boundary extraction, region filling, extraction of connected components, convex hull, thinning, thickening, skeletons).
4. Image segmentation; Edge detection and linking. Boundary detection. Thresholding. Region-based segmentation.
5. Representation and description: Chain codes, polygonal approximation, signatures, skeletons. Boundary- and region-based description. Feature extraction. Estimation of geometric features.
Part of the course is organized in the form of independent study and research work in the field of discrete mathematics and digital image processing. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of discrete mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R.C. Gonzales, R.E.Woods<\eng>	Digital Image Processing , 2ndEd.<\eng>	Prentice-Hall, Inc<\eng>	2002
2,	razni	Odabrani stručni materijal (naučni radovi, izvodi iz predavanja i sl.)		2000

Table 5.2 Course specification

Course:		Applied Algorithms		
Course id:	D0M31			
Number of ECTS:	14			
Teachers:		Sladoje Matić I. Nataša, Stojaković Z. Miloš, Urošević -. 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 educational objective of the course is to introduce the basic concepts of algorithms theory. Algorithms emerge from almost every branch of computer science, as well as engineering, biology, etc. Every problem that emerges in a scientific process and needs to be solved, requires an algorithm that processes given data and finds solution. That is why the suggested topics may be of interest from both theoretical and practical aspect.

2. Educational outcomes (acquired knowledge):

Understanding the concept of an algorithm, as well as its main property - complexity of an algorithm. Knowing several basic complexity classes with some well-known problems as their representatives. Understanding the standard ways of dealing with difficult problems in practice, like using approximation algorithms and randomized algorithms.

3. Course content/structure:

1. Introduction: Recursive functions. Turing machines, their languages. Algorithm, definition. Algorithm complexity. Space and time complexity.
2. Complexity classes: Examples of polynomial algorithms. Reductions. P=NP question. NP-complete problem, examples. coNP class.
3. Space complexity: Savich Theorem. Classes L and NL. Class Pspace, winning game strategies. Counting problems. Class #P.
4. Randomized algorithms and approximation algorithms. Probabilistic algorithms. Classes BPP, RP and coRP. Derandomization. Small sample spaces. Approximation algorithms. Class NPO.
Part of the course is organized in the form of independent study and research work in the field of applied mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of applied mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Atallah<\eng>	Algorithms and theory of computation hanbook<\eng>	CRC Press, London<\eng>	1999
2,	M. Sipser<\eng>	Introduction to the theory of computation,<\eng>	PWS Publishing Company, Boston<\eng>	1997
3,	U. Schöning<\eng>	Theoretische Informatik kurzgefaßt<\eng>	Spektrum Akademischer Verlag GmbH, Berlin<\eng>	1995

Table 5.2 Course specification

Course:		Combinatorial and Geometric Algorithms		
Course id:	D0M32			
Number of ECTS:	14			
Teachers:		Sladoje Matić I. Nataša, Stojaković Z. Miloš, Urošević -. 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 educational objective of the course is to introduce some basic concepts of combinatorial and geometric algorithms. Combinatorial algorithms are applied on discrete combinatorial structures, which can be found in almost every branch of science. In that case, using a computer to deal with data requires a combinatorial algorithm. Geometric algorithms are applied on visual, geometric data, and have wide area of application for similar reasons.

2. Educational outcomes (acquired knowledge):

Understanding the concepts of both combinatorial and geometric algorithms. Knowing the usual data structures for storing the discrete and geometric data. Understanding the basic techniques, and how they can be applied on some of the well-known combinatorial and geometric problems.

3. Course content/structure:

1. Combinatorial structures: Data structures for storing sets, sequences, graphs. Divide-and-conquer algorithms. Permutations and sequences. Sorting, algorithms, complexity.
2. Graph algorithms: Graph representation. Weighted graphs. Testing connectedness. Shortest path. Minimum spanning tree. Colorings. Network algorithms. Routing.
3. Geometric structures: Data structures for storing geometric data. Dealing with point sets, divide-and-conquer, sweeping. Closest pair of points.
4. Geometric algorithms: Convex hull. Polytopes. Convex hull of balls. Triangulations. Binary space partitions. Quadtrees and octrees. Geometric randomized algorithms.
Part of the course is organized in the form of independent study and research work in the field of mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Theoretical part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	de Berg, van Kreveld, Overmars, Schwarzkopf<\eng>	Computational Geometry<\eng>	Springer-Verlag, Berlin<\eng>	2000
2,	M. Atallah<\eng>	Algorithms and theory of computation handbook<\eng>	CRC Press, London<\eng>	1999
3,	J.D. Boissonnat, M. Yvinec<\eng>	Algorithmic Geometry<\eng>	Cambridge University Press, London<\eng>	1998

Table 5.2 Course specification

Course:		Optimization Methods and Mathematical Modelling		
Course id:	D0M39			
Number of ECTS:	14			
Teachers:		Ralević M. Nebojša, Urošević -. Dragan, Davidović M. Tatjana		
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:

Enabling students to think abstractly and acquire knowledge in the field of selected optimization methods.

2. Educational outcomes (acquired knowledge):

To utilize acquired knowledge in professional subjects and practical work, develop and solve mathematical models in the field of professional subjects using covered subject content in optimization methods.

3. Course content/structure:

Theory (lectures): Mathematical modelling and simulation. Classic optimization methods. One-dimensional optimization. Convex and non-convex programming. Linear programming (graph method; simplex method, transport problem). Non linear programming (unconditional optimization, square programming, convex programming, separable programming, integer programming). Dynamic programming. Multicriteria optimization. Compromise programming. Abstract programming. Variation bill.
Part of the teaching is realized through independent research and study work in the field of mathematics. Research and study work includes active following of primary scientific sources, organization and conducting experiments and statistical data processing, numeric simulation, possible writing of scientific paper in the field of mathematics.

4. Teaching methods:

Lectures. Consultations. Lectures are realized by combining theory and practice. Theoretical part is followed by appropriate examples which lead to clarification of the theoretical part. Apart from lectures and practical classes, consultations are held regularly. Part of subject content, which represents a logical unity, can be taken as a part of the exam during the teaching process. During lectures (through project work) it is necessary to prove elementary knowledge of at least one program packages (C, Pascal, Matlab. Mathematica) needed for modelling and simulation of a problem treated by optimization methods. Part of subject content as agreed upon and which makes unity is can be taken orally as a presentation and submitted in written form as a seminar paper. Oral part of the final exam is eliminatory. Through research and study work, student studies scientific journals and other relevant literature and individually expands subject content covered in classes. In cooperation with prof

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	55.00
Project defence	Yes	20.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	I. Ekeland, R. Temam	Convex analysis and variational problems	Nort-Holand	1976
2,	Petrić J.	Operaciona istraživanja	Naučna knjiga, Beograd	1987
3,	Zeidler E.	Nonlinear Functional Analysis and Aplications	Springer-Verlag, New York-Berlin-Heidelberg-Tokyo	1985
4,	Zlobec S., Petrić J.	Nelinearno programiranje	Naučna knjiga, Beograd	1989

Table 5.2 Course specification

Course:		Numerical Methods for Solving Differential Equations		
Course id:	D0M48			
Number of ECTS:	14			
Teacher:		Teofanov Đ. Ljiljana		
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 provide the overview of basic notions and theoretical results of numerical solving of differential equations and to learn about finite difference method and finite element method.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice when solving differential equations. The students are expected to be able to independently design programs for numerical solving of some differential equations.

3. Course content/structure:

1.Motivation, analysis and solution of ordinary differential equations with examples.
2.Hilbert spaces, orthogonality and projections.
3.Duality, bilinear functionals, variational formulation, some important inequalities, maximum principle.
4.Finite difference method.
5.Finite element method.
6.Convergence, post processing and singularly perturbed problems.

4. Teaching methods:

Lectures and 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. The student chooses a topic for seminar paper from one of the above listed topics. The paper is expected to include programming and testing of numerical examples which illustrate the chosen method.

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,	Qun Lin, Jiafu Lin	Finite Element Methods: Accurasy and Improvement	Science Press	2006
2,	Alexandre Ern, Jean-Luc Gearmond	Theory and Practice of Finite Elements	Springer	2004
3,	O. Axelsson, V. A. Barker	Finite Element Solution of Bounadry Value Problems	SIAM	2001
4,	H-G. Roos, M. Stynes, L. Tobiska	Robust Numerical Methods for Singularly Perturbed Differential Equations	Springer	2008

Table 5.2 Course specification

Course:		Large Deviations Principles		
Course id:	D0M51			
Number of ECTS:	14			
Teachers:	Grbić P. Tatjana, Mihailović P. Biljana			
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:

Enabling students to develop abstract thinking and acquire basic knowledge about probability theory, stochastic processes and large deviations principles as well as the application of large deviations in image processing, statistical mechanics, encoding theory.

2. Educational outcomes (acquired knowledge):

The students can use the acquired knowledge in engineering subjects and in practice, to develop and solve mathematical models using the knowledge of large deviations theory.

3. Course content/structure:

The course content includes the following topics.
1) Probability theory
2) Stochastic processes
3) Definition of large deviations principles
4) Large deviation principle for stochastic process
5) Some applications of large deviations principles

4. Teaching methods:

Lectures. Consultations. The 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. A students writes a seminar paper in the filed of application of large deviation theory in the field of their scientific interest and gives an oral presentation related to it. Through study and research work a student works independently on getting deeper understanding of the subject matter through study of the scientific journals and other relevant literature. Working with the course teacher, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	P. Billingslay	Probability and Measure	John Wiley and Sons	1968
2,	A. Dembo, O. Zeitouni,	Large Deviation Techniques and Applications	Springer	1988
3,	J. Mališić	Slučajni procesi	Građevinska knjiga,Beograd	1989
4,	J. Feng, T.G.Kurtz	Large Deviation for Stohastic Processes	American Mathematical Society	2006

Table 5.2 Course specification

Course:		Formal Languages Theory and Programming Languages
Course id:	DOM44	
Number of ECTS:	14	
Teachers:		Crvenković Đ. Siniša, Marković M. Zoran, Ognjanović D. Zoran
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

1. Educational goal:

Gaining fundamental knowledge about formal languages theory and application in developing programming languages.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and results in formal languages theory. Participating in the research in some areas of application of formal languages theory of student`s choice, working with scientists in the country and abroad.

3. Course content/structure:

Formal grammars. Presentation of formal languages. Chomsky hierarchy. Regular languages, regular expressions and finite automata. Context free languages and push-down automata. Context sensitive languages. Type 0 grammar. Computabilty and grammar. Application of formal grammar in programming languages. Automata over infinite words and aplication in verification.

4. Teaching methods:

The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature				
Ord.	Author	Title	Publisher	Year
1,	J.Hopcroft, J.Ullman	Formal languages and their relation to automata	Addison-Wesley	1969
2,	H. Lewis, C. Papadimitriou	Elements of the theory of computation	Prentice-Hall	1981
3,	A. Aho, R. Sethi, J. Ullman	Compilers, principles, techniques, and tools	Addison-Wesley	1986
4,	Zoran Ognjanović, Nenad Krdžavac	Uvod u teorijsko računarstvo	Fakultet organizacionih nauka, Beograd	2005
5,	Irena Spasić, Predrag Janičić	TAJA - Zbirka zadataka	Matematički fakultet, Beograd	2000

Table 5.2 Course specification

Course:		Computational geometry		
Course id:	DOM54			
Number of ECTS:	14			
Teachers:		Petrović -. Vojislav, Ralević M. Nebojša, Stojaković Z. Miloš		
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:

Enabling students to develop abstract thinking and acquire knowledge about computational geometry.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice, postulate and solve mathematical models in engineering subjects using the knowledge about computational geometry.

3. Course content/structure:

Introduction (Euclidean, projective, affine and analytical geometry). Geometric Searching. Convex Hulls. Fundamental Algorithms. Variants and Generalizations. Intersections. Geometry of Rectangles. Fuzzy Computational Geometry. Computer Graphics and Geometric Modeling. Geometric algorithms of pattern recognition.

4. Teaching methods:

Lectures. 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. The students can take partial exams during the course. A part of the course material (which represents a unit of course subject matter) is presented orally and submitted as a written seminar paper. The oral part of the final examination is eliminatory. 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
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Project defence	Yes	10.00	Practical part of the exam - tasks	Yes	25.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Agoston, M. K	Computer Graphics and Geometric Modeling: Mathematics	Springer-Verlag, New York	2005
2,	Agoston, M. K.	Computer Graphics and Geometric Modeling: Implementation and Algorithms	Springer-Verlag, New York	2005
3,	De Berg, M., Cheong, O., Van Kreveld, M., Overmars, M.	Computational Geometry: Algorithms and Applications	Springer-Verlag, New York-Berlin-Heidelberg-Tokyo	2008
4,	Shamos, M. I., Preparata, F. P.	Computational Geometry: An Introduction	Springer-Verlag, New York-Berlin-Heidelberg-Tokyo	1985
5,	Valentin E. Brimkov (Editor), Reneta P. Barneva (Editor)	Digital Geometry Algorithms: Theoretical Foundations and Applications to Computational Imaging (Lecture Notes in Computational Vision and Biomechanics)	Springer	2012

Table 5.2 Course specification

Course:		Pattern Recognition		
Course id:	DOM55			
Number of ECTS:	14			
Teacher:		Ralević M. Nebojša		
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:

Enabling students to develop abstract thinking and acquire knowledge about pattern recognition.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice, postulate and solve mathematical models in engineering subjects using the knowledge about pattern recognition.

3. Course content/structure:

Introduction. Resolute Functions. Pattern Recognition - Supervised Learning . Probabilistic Pattern Recognition. Syntactic Pattern Recognition. Classifying. Applications of Pattern Recognition.

4. Teaching methods:

Lectures. 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. The students can take partial exams during the course. A part of the course material (which represents a unit of course subject matter) is presented orally and submitted as a written seminar paper. The oral part of the final examination is eliminatory. 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
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Project defence	Yes	10.00	Practical part of the exam - tasks	Yes	25.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Webb, A.	Statistical Pattern Recognition	Arnold, London-Sydney-Auckland	1999
2,	Duda, R. O., Hart, P. E., Stork, D. G.	Pattern Classification	Willey-Interscience, New York	2005
3,	Bishop, C. M.	Pattern Recognition and Machine Learning	Springer-Verlag, New York	2006
4,	Acketa D.	Odabrana poglavlja teorije prepoznavanja oblika sa primenama	Univerzitet u Novom Sadu, PMF, Institut za matematiku, Novi Sad	1986

Table 5.2 Course specification

Course:		Fixed point theory		
Course id:	DOM59			
Number of ECTS:	14			
Teachers:		Stojaković M. Mila, Gajić . Ljiljana, Došenović -. Tatjana		
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:

Enabling students to develop abstract thinking and acquire basic knowledge in fixed point theory.

2. Educational outcomes (acquired knowledge):

Student is enabled to develop and solve mathematical models in fixed point theorz in further education and professional subjects.

3. Course content/structure:

Metric and Banach spaces, Differentiation and integration in Banach spaces , Contraction principles, the Brouwer fixed-point theorem , Kakutani's fixed-point theorem and applications , The Jordan curve theorem, The Leray–Schauder mapping degree, Compact operators, The Leray–Schauder mapping degree ,The Leray–Schauder principle and the Schauder fixed-point theorem ,Applications to integral and differential equations . .

4. Teaching methods:

Lectures, Consultations. The presentation of the theoretical part is followed by the corresponding examples for easier understanding of subject content. 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. In cooperation with professors, student is enabled to independently write scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	40.00	Oral part of the exam	Yes	60.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Olga Hadžić	Fixed point theory		1987
2,	Kim Border	Fixed point theorems with applications to economics and game theory	Cambridge Univ.Press	1985

Table 5.2 Course specification

Course:		Selected Chapters of Computer Communications		
Course id:	DRT05			
Number of ECTS:	14			
Teacher:		Bašičević V. Ilija		
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				

1. Educational goal:

Introduction to some contemporary trends in the area of computer networks and computer communications in general.

2. Educational outcomes (acquired knowledge):

Students have foundation for research of some problems in the area of computer networks and computer communications in general.

3. Course content/structure:

The course covers technological foundations of contemporary computer communications. Part of course is realized through research that encompasses introduction to contemporary trends in computer networks.

4. Teaching methods:

Consultations. Student prepares exam 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,	D. Komer	TCP/IP Internet		2005

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. Kirćanski	Kinematics and Trajectory Synthesis of Manipulation Robots,	Springer Verlag, ISBN 3-540-13071-3	1986
3,	M. Vukobratović, D. Stokić, N. Kirćanski	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

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

Table 5.2 Course specification

Course:		Design and Planning Processes to Minimize Waste and Hazardous Materials		
Course id:	ZSP21			
Number of ECTS:	14			
Teachers:		Kosec L. Borut, Ubavin M. Dejan, Vujić V. Goran		
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 introduce students to systematic approach in the environmental field, through the design and planning of lower production of waste and use of less hazardous substances.

2. Educational outcomes (acquired knowledge):

Students acquire knowledge on environmental protection, sustainable production, with elements of eco-design products and waste minimization, minimizing the use of hazardous substances.

3. Course content/structure:

The environmental protection system and the concept of cleaner production.
Sustainable production methods of minimization of waste in production processes. Eco-design and case studies of design and planning.
Methods to minimize the use of hazardous substances (chemicals) in production processes and case studies of design and planning.
Partnership as instrument in the design and planning process.

4. Teaching methods:

Lecture and consultation.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	30.00	Written part of the exam - tasks and theory	Yes	30.00
			Oral part of the exam	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Ed. David H.F; Liu & Bela G. Liptak	Environmental Engineer's Handbook	Boca Raton: CRC Press LLC	1999
2,	M.D.La Grega, P.L.Buckingham, J.C.Evans, ERM,	Hazardous Waste Management	McGraw Hill	2001

Table 5.2 Course specification

Course:		Preparation for the Application of Doctoral Dissertation Topic		
Course id:	SID05			
Number of ECTS:	2			
Teachers:				
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:

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.

2. Educational outcomes (acquired knowledge):

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.

3. Course content/structure:

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.

4. Teaching methods:

Teaching is performed as tutorials.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	70.00	Oral part of the exam	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Priznati naučnici i stručnjaci iz oblasti teme Dr teze	Razna naučna dela		sve

Table 5.2 Course specification

Course:		Applied Abstract Algebra		
Course id:	D0M08			
Number of ECTS:	14			
Teachers:		Blagojević M. Pavle, Doroslovački D. Rade, Pantović B. Jovanka, Vojvodić D. Gradimir		
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:

Enabling students to develop abstract thinking and acquire fundamental knowledge in the field of applied abstract algebra.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in further education and in engineering subjects, postulate and solve mathematical models in engineering subjects using the knowledge acquired in this course.

3. Course content/structure:

Lattices• Boolean Algebras• Finite Fields•Algebraic Structures• Coding Thoery• Cryptology•Formal Languages• Automata Theory Study by doing research includes active following of primary scientific sources, organisation and presentation of seminal papers from the field of Abstract Algebra, i.e. algorithm construction and programming practical problems that require knowledge in abstract algebra.

4. Teaching methods:

The teaching process consists of theoretical part, lectures and practical classes where various practical problems are solved using the knowledge acquired during lectures. 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	30.00	Homework	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	R.Sz. Madarasz, S. Crvenković	Uvod uteoriju automata i formalnih jezika	Univerzitet u Novom Sadu, Novi Sad	1995
2,	Rudolf Lidl, Gunter Pilz	Applied abstract algebra	Springr-Verlag	1984
3,	R.Doroslovački	Elementi opšte i linearne algebre	ALFA-GRAF NS	2006
4,	Sergiu Rudeanu	Boolean Functions And Equations	NORT-HOLAND PUBLISHING COMPANY	1974

Table 5.2 Course specification

Course:		Functional Analysis 2		
Course id:	D0M19			
Number of ECTS:	14			
Teachers:		Kovačević M. Ilija, Kostić Z. Marko, Grbić P. Tatjana		
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				

1. Educational goal:

To enable students to think abstractly and to acquire basic knowledge in the field of Functional Analysis (spaces, operators, distribution theory, short waves theory)

2. Educational outcomes (acquired knowledge):

To utilize the acquired knowledge in further education and professional subjects, design and solve mathematical models in professional subjects using the subject content of Functional Analysis.

3. Course content/structure:

Lectures: Local convex spaces: function spaces and their duals; measures, spaces; various operators classes; distribution theory, Fourier and Laplas transformation; Sobolev spaces; fundamentals of small waves theory. Study and research work includes active following of primary scientific sources, organization and conducting experiments and statistical data processing, numeric simulations, possiblem writing of scientific papers using functional analysis methods. Note: stated topics are very wide so the student will in cooperation with professors get appropriate literature that covers several topics from the list.

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 exampled 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 ot 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,	M.Reed, B.Simon	Modern Mathematical Physics, Acad Press	Acad.Press.	1975
2,	R.Adams	Sobolev Spaces	Acad. Press.	1975
3,	F.Hirsh, G.Lacombe	Elements of Functional Analysis	Springer	1999
4,	P.D.Hislop,L.M.Sigal	Introduction to Sprectal Theory	Springer	1996
5,	J. Duoandikoetxea	Fourier Analysis	AMS	2001
6,	P.S.Aleksandrov,B.A.Pasljnkov	Vvdenie v teorijo razmernosti	Nauka, Moskkva	1973
7,	S.Kurepa	Matematička analiza	Školska knjiga, Zagreb	1981
8,	V.Huston,J.S.Pym	Applications of Functional Analysis and Operator Theory	Acad. Press.	1980

Table 5.2 Course specification

Course:		StatisticsApplied in Engineering		
Course id:	D0M27			
Number of ECTS:	14			
Teachers:		Lozanov-Crvenković S. Zagorka, 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:

Students are able to postulate and solve mathematical models using statistical methods applied in engineering in their further education and engineering subjects.

2. Educational outcomes (acquired knowledge):

. Students are able to postulate and solve mathematical models using statistical methods applied in engineering in their further education and engineering subjects,

3. Course content/structure:

Application of statistical packages : Statistica, Exel, Mathematica , MathStatica, SPSS, MATLAB.
Part of the course is carried out through individual study and research work in the field of mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics

4. Teaching methods:

Lectures. Consultations. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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,	Jay Devore	Probability and statistics for engineering and sciences	BrooksCole Publ.Co.	1987
2,	J.P.Marques de Sa	Applied statistics using SPSS,Statistica and MATLAB	Springer	2005
3,	Colin Rose, Murray Smith	Mathematical statistics with MATHEMATICA	Springer	2002

Table 5.2 Course specification

Course:		Image Processing 2
Course id:	D0M30	
Number of ECTS:	14	
Teacher:		Sladoje Matić I. Nataša
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

1. Educational goal:

The educational objective of the course is to give a deeper knowledge about image processing tasks and methodologies, first introduced in Image Processing I course. The suggested topics cover main steps in image processing: image pre-processing, image segmentation, shape analysis and feature extraction, and interpretation. Additional topics are related to 3D images, colour images, and fuzzy segmented images. Such a concept provides an overview and practical understanding of this up-to-date field of applied mathematics and computer science.

2. Educational outcomes (acquired knowledge):

Knowledge of steps and methodologies of image processing. Practical knowledge that can be applied in a variety of real world image analysis tasks.

3. Course content/structure:

1. Image pre-processing (advanced): Geometric transformations. Local pre-processing (image smoothing, edge detectors, scale in image processing). Image restoration.
2. Image segmentation (advanced): Advanced edge- and region-based segmentation methods. (Hough transform, watersheds, matching, live-wire, active contours (snakes)).
3. Object recognition: Statistical pattern recognition. Optimization techniques in recognition. Recognition as graph-matching.
4. Image registration: Registration transformations (translation, rotation, scaling, projective transformations). Geometric features. Similarity measures.
5. Basics of 3D image processing. 3D vision. 3D image geometry and topology. 3D image analysis methods.
6. Basics of colour image analysis: Colour models. Colour image segmentation.
7. Fuzzy Image Analysis: Introduction to fuzzy set theory. Discrete fuzzy spatial sets. Fuzzy segmentation methods. Fuzzy shape analysis. Defuzzification
Part of the course is organized in the form of independent study and research work in the field of discrete mathematics and image processing. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of discrete mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Sonka, V. Hlavac, and R. Boyle<\eng>	Image processing, analysis, and machine vision, 2ndEd<\eng>	International<\eng>	1998
2,	razni	Odabrani stručni materijal (naučni radovi, izvodi iz predavanja i sl.)		2000

Table 5.2 Course specification

Course:		Positional Games		
Course id:	D0M33			
Number of ECTS:	14			
Teachers:		Petrović -. Vojislav, Sladoje Matić I. Nataša, Stojaković Z. Miloš		
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 objective of the course is to introduce the basic concepts of combinatorial game theory with special accent on positional game theory. The suggested topics may be of interest from both theoretical and practical aspect. Combinatorial games have many real world applications, such as network algorithms, artificial intelligence, scheduling, etc. On the other hand, many results from classical mathematics and theoretical computer science lean on combinatorial game theory.

2. Educational outcomes (acquired knowledge):

Understanding the concept of a combinatorial game, having deeper insight in positional game theory, knowing the set of tools available, and knowing how to apply them.

3. Course content/structure:

1. Introduction Types of combinatorial games. Strategy. Game tree. Total min-max search. Strategy stealing. Probabilistic approach.
2. Some combinatorial games Operations on the space of games. Equivalence of games. Nim-like games. Hackenbush. Potentials. Solitaire Army
3. Positional games Definition. Tic-tac-toe, generalization to n dimensions. Hales-Jewitt Theorem. Pairing strategy. Strong and weak games. Maker-Breaker games. Biased positional games.
4. Games on graphs¸Clique game. Hamiltonian cycle game. Perfect matching game. Ramsey games. Probabilistic methods.
Part of the course is organized in the form of independent study and research work in the field of mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized in combined form. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. 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
Lecture attendance	Yes	10.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	J. Beck<\eng>	Tic-tac-toe theory<\eng>		2006
2,	J. Beck<\eng>	Foundations of positional games<\eng>		1996
3,	E.R. Berlekamp, J.H. Conway, R.K. Guy<\eng>	Winning Ways<\eng>	Academic Press, London<\eng>	1982

Table 5.2 Course specification

Course:		Actuarial Mathematics		
Course id:	D0M34			
Number of ECTS:	14			
Teacher:		Doroslovački D. Rade		
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:

Developing the ability of abstract thinking and acquiring fundamental knowledge in the field of financial and actuarial mathematics.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in further education and in engineering subjects and the students are able to practically apply the knowledge of financial and actuarial mathematics without remembering and using the formulas which frequently appear in different course books.

3. Course content/structure:

Lectures Theoretical part). Probability of life and death of a person. Term insurance. The insurance of capital, annual insurance premium, two lives insurance. Probability of life and death of two persons.
Consultations. Consultation classes are devoted to doing suitable examples which provide additional practice for the material covered at lectures and thus contribute to better understanding of the material. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Lectures. Consultations. The lectures are organized as dynamic and interactive. The presentation of the theoretical part during the lecture classes is followed by the characteristic examples which contribute to better understanding of the subject matter. During the consultation classes the material from the lectures is further studied and characteristic problems are solved. Students can take partial examinations during the course in the following two modules: Module 1: Financial mathematics, Module 2: Actuarial mathematics. 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
Lecture attendance	Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Dr Jelena Kočović	AKTUARSKE OSNOVE FORMIRANJE TARIFA	Centar za izdavačku delatnost, Ekonomski fakultet Beograd	2004
2,	Dr Jelena Kočović i Dr Tatjana Rakonjac-Antić	Zbirka rešenih zadataka iz Finansijske i Aktuarske matematike	Centar za izdavačku delatnost, Ekonomski fakultet Beograd	2005
3,	N. Bowers at al.	Actuarial Mathematics	Society of Actuaries	1997

Table 5.2 Course specification

Course:		Non-linear Equations and Their Applications
Course id:	D0M38	
Number of ECTS:	14	
Teacher:		Ralević M. Nebojša
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:

Enabling students to develop abstract thinking and acquire knowledge about non-linear equations.

2. Educational outcomes (acquired knowledge):

To use the acquired knowledge in engineering subjects and in practice, postulate and solve mathematical models in engineering subjects using the knowledge of non-linear equations.

3. Course content/structure:

Theoretical part (Lectures): Non-linear operator equations – introduction to basic notions. Numerical solutions of differential equations. Functional equations. Differential equations. Delay differential equations. Integral equations. Integro differential equations. Stochastic differential equations. Geometry and differential equations. Part of the course is organized in the form of independent study and research work in the field of mathematics. The study and research work involves active study of primary scientific sources, organization and conduction of experiments and statistical data analysis, numerical simulations, and possibly writing a paper in the filed of mathematics.

4. Teaching methods:

Lectures. 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. The students can also take partial exams (covering one module) during the course. In consultation with the course teacher a student gives an oral presentation (covering one module) and writes a seminar paper. The oral part of the final examination is eliminatory. 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
Lecture attendance	Yes	5.00	Theoretical part of the exam	Yes	40.00
Project defence	Yes	10.00	Practical part of the exam - tasks	Yes	25.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	R.K.Dodd, J.C.Eilbeck, J.D.Gibbon, H.C.Morris	Solitons and Nonlinear Wave Equations	Academic Press Inc.	1982
2,	A. Kufner, S. Fučik	Nonlinear Differential Equations	Amsterdam-Oxford-New York	1980
3,	M. Kuczma	An introduction to the Theory of Functional Equations and Inequalities	Universytet Slaski, Warszava-Krakow-Katowice	1985
4,	Saaty, T. L.	Modern Nonlinear Equations	Dover Publications, Inc., New York	1981

Table 5.2 Course specification

Course:		Aggregation Functions		
Course id:	D0M49			
Number of ECTS:	14			
Teacher:		Mihailović P. Biljana		
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 students learn about theoretical overview, methods and applications of aggregation.

2. Educational outcomes (acquired knowledge):

The students are capable of analysis of aggregation methods. The acquired knowledge can be used in solving practical problems using mathematical models based on aggregation functions.

3. Course content/structure:

The course content includes the following topics: Properties of aggregation functions. Construction methods. Means, triangular norms, triangular conorms, uninorms, nullnorms, copulas. Aggregation on symmetric intervals. Aggregation functions based on nonadditive integrals. Applications of aggregation functions. Study and research work includes monitoring of adequate scientific literature.

4. Teaching methods:

Lectures. Consultations. The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. Through homework assignments, work with the course teacher and study of the scientific journals and other relevant literature, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	M. Grabisch, J.-L. Marishal, R. Mesiar, E. Pap	Aggregation Functions	Cambridge University Press	2009
2,	E. P. Klement, R. Mesiar, E. Pap	Triangular Norms	Kluwer Academic Publishers	2000
3,	P. S. Bullen	Handbook of Means and Their Inequalities	Kluwer Academic Publishers	2003
4,	R. B. Nelsen	An Introduction to Copulas	Springer	2005

Table 5.2 Course specification

Course:		Fuzzy Measures and Integrals		
Course id:	D0M50			
Number of ECTS:	14			
Teachers:		Mihailović P. Biljana, Grbić P. Tatjana		
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 students learn about theoretical overview, methods and applications of fuzzy measures and integrals.

2. Educational outcomes (acquired knowledge):

The students are capable of independent scientific work. The acquired knowledge can be used in solving practical problems using mathematical models based on fuzzy integrals.

3. Course content/structure:

The course content includes the following topics. Non-additive set functions. Fuzzy measures. Generalized fuzzy measures (fuzzy bi-measures, real fuzzy measures). Co-monotone functions. Fuzzy measures based integrals. (Choquet integral, Sugeno integral, Shilkret integral). Convergence theorems. Symmetric and asymmetric extension of fuzzy integrals. Applications of fuzzy integrals and their extensions in decision theory, mathematical psychology and pattern recognition. Study and research work includes relevant scientific literature.

4. Teaching methods:

Lectures. Consultations. The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. Through homework assignments, work with the course teacher and study of the scientific journals and other relevant literature, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	30.00	Theoretical part of the exam	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	E. Pap	Null-additive Set Functions	Kluwer Academic Publishers	1995
2,	E. Pap, editor	Handbook of Measure Theory	Elsevier	2002
3,	M. Grabisch, T. Murofushi, M. Sugeno, editors	Fuzzy Measures and Integrals-Theory and Applications	Physica-Verlag	2000
4,	D. Denneberg	Non-Additive Measure and Integral	Kluwer Academic Publishers	1994

Table 5.2 Course specification

Course:		Random Sets		
Course id:	D0M52			
Number of ECTS:	14			
Teacher:		Grbić P. Tatjana		
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 offer an overview and fundamental understanding of basic notions of random sets theory with emphasis on random closed sets theory and their application in engineering.

2. Educational outcomes (acquired knowledge):

The students can use the acquired knowledge in engineering subjects and in practice, to develop and solve mathematical models using the knowledge of random sets theory.

3. Course content/structure:

The course content includes the following topics.
1) Random sets (definition and examples)
2) Distribution of random set
3) Transformations of random sets
4) Selectors
5) Numerical characteristics of random sets

4. Teaching methods:

Lectures. Consultations. The 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. A students writes a seminar paper on one of the above mentioned topics and gives an oral presentation related to it. Through study and research work a student works independently on getting deeper understanding of the subject matter through study of the scientific journals and other relevant literature. Working with the course teacher, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	I. Molchanov	Theory of Random Sets	Springer	2005
2,	H. T. Nguyen	An Introduction to Random Sets	Chapman and Hall	2006

Table 5.2 Course specification

Course:		Statistical Processing of Fuzzy Data		
Course id:	D0M53			
Number of ECTS:	14			
Teacher:		Grbić P. Tatjana		
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 offer an overview and fundamental understanding of some methods in fuzzy data processing, i.e. to teach students about processing and making conclusions on fuzzy data.

2. Educational outcomes (acquired knowledge):

The students can use the acquired knowledge in engineering subjects and in practice, to develop and solve statistical models using the acquired knowledge of fuzzy data processing.

3. Course content/structure:

The course content includes the following topics.
1) Random sets, fuzzy numbers, fuzzy random variables and random fuzzy sets
2) Fuzzy data modelling
3) Fundamentals of statistical decision theory
4) Descriptive statistics of fuzzy data
5) Mean hypothesis testing
6) Analysis of fuzzy time series

4. Teaching methods:

Lectures. Consultations. The 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. A students writes a seminar paper on one of the above mentioned topics and gives an oral presentation related to it. Through study and research work a student works independently on getting deeper understanding of the subject matter through study of the scientific journals and other relevant literature. Working with the course teacher, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Theoretical part of the exam	Yes	20.00
			Practical part of the exam - tasks	Yes	30.00

Literature

Ord.	Author	Title	Publisher	Year
1,	H. T. Nguyen, B. Wu	Fundamentals of Statistics with Fuzzy Data	Springer	2006
2,	R. Kruse, K. D. Meyer	Statistics with Vague Data	Kluwer	1987

Table 5.2 Course specification

Course:		Selected Chapters in Nonlinear Control Systems
Course id:	DAU010	
Number of ECTS:	14	
Teachers:		Jeličić D. Zoran, Rapaić R. Milan
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
5	0	0	4	0

Precondition courses None

1. Educational goal:

The objective of the course is to enable students to actively study the scientific literature and participate in the study research work in the field of Nonlinear Control Systems.

2. Educational outcomes (acquired knowledge):

The student is able to actively study the scientific literature and conduct the study research work in the field of Nonlinear Control Systems.

3. Course content/structure:

Nonlinear system characteristics. System stability. Nonlinear control systems.
A part of the course work is conducted through independent individual study and research work in the field of Nonlinear Control Systems. The research study work requires the student`s active and constant interest in and reading of the primary scientific resources, the organisation and conducting of experiments, numerical simulations and, optionally, writing a paper in the field of Nonlinear Control Systems.

4. Teaching methods:

Lectures, seminar paper, tutorial work. Research study 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,	Hassan K. Khalil	Nonlinear Systems	Prentice Hall	2002
2,	grupa autora	odbarani radovi iz časopisa		nema

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 nonsmoothe mathematical analysis: general and multivalue functions. Unilateral functions. Differential equations. Differential inclusions. Complementar formulations. Systems with unilateral limitations. Variational principles and unilateral limitations. Collision of two or more bodies. Moor`s process. Stability of nonsmooth dynamic systems with unilateral limitations. Quazidifferential functions and sets. Quazidifferential 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	Quasidifferntiability and nonsmooth modelling in mechanics, engineering and economics	Kluwer	1996

Table 5.2 Course specification

Course:		Combinatorial Matrix Theory		
Course id:	DOM31			
Number of ECTS:	14			
Teachers:		Doroslovački D. Rade, Simić K. 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:

Students are introduced to combinatorial (graph) aspects of matrix theory which contributes to better understanding of the theory and enables the students to learn about different graph theory and matrix theory which have interesting applications.

2. Educational outcomes (acquired knowledge):

General mathematical subjects from the first two years of study.

3. Course content/structure:

Review of some elementary concepts in linear algebra with combinatorial approach. Matrix operations. Powers of matices. Determiners. Cofactors and invertible matrix. Solving a system of linear algebra equations using graphs. Matrix eigenvalue. Combinatorial proof of Cayley-Hamilton theorem. Finding the Jordan canonical form of a matrix. Nonnegative matices. Reducible and irreducible matrices. Signal flow graph techniques. Mathematical fundamentals and application in system theory and electric circuit theory. Applications in physics and chemistry. Membrane movement. Huckel theory of unsaturated carbohydrogen.

4. Teaching methods:

Consultations with the subject teacher using email address ecvetkod ecvetkod@etf.bg.ac.yu Contact in person with the course teacher can be arranged. Part of the course is available on electronic slides.

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,	. Brualdi R.A., Cvetković D.	A Combinatorial Approach to Matrix Theory and Its Applications	CRC Press, Boca Raton	2008
2,	. Cvetković D.	Kombinatorna teorija matrica sa primenama u elektrotehnici, hemiji i fizici,	Naucna knjiga, Beograd	1987

Table 5.2 Course specification

Course:		Spectral Graph Theory		
Course id:	DOM40			
Number of ECTS:	14			
Teacher:		Simić K. 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:

Students are introduced to possibilities offered by methods developed within linear algebra in solving combinatorial problems, with special emphasis on graphs.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is expected to be applied in solving practical problems which can be modelled using graphs.

3. Course content/structure:

Types of matrices associated with graphs, spectral invariants of graphs (eigenvalues, eigenspaces, etc), relation between eigenvalues of a graph and its structure, spectral properties, spectral techniques and their applications.

4. Teaching methods:

The emphasis is placed on students` independent research work which includes theoretical as well as practical part which assumes the use of different software tools: GRAPH, NEWGRAPH, MATHEMATICA, etc.

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,	D. Cvetković, P. Rowlinson, S. Simić	Introduction to the spectral graph theory	Cambridge University Press	2009

Table 5.2 Course specification

Course:		Metaheuristic Methods
Course id:	DOM42	
Number of ECTS:	14	
Teachers:		Davidović M. Tatjana, Mladenović M. Nenad, Urošević -. 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

1. Educational goal:

Gaining knowledge about modern heuristic methods in solving Combinatorial and Global optimization tasks.

2. Educational outcomes (acquired knowledge):

The ability to recognize a problem which needs to be solved using heuristic methods. The ability to choose the right method for a particular problem. The ability of computer implementation of some metaheuristic problems.

3. Course content/structure:

Combinatorial and global optimization problems. Classic heuristics. Metaheuristics (simulated annealing, tabu search, environment change method, genetic algorithms, matheuristics). Examples of application. Travelling salesman problem, P- median problem, clustering problem, location problems.

4. Teaching methods:

Theoretical bases of the problems and their mathematical formulations are explained during lecture classes. Students independently work on the additional literature related to particular metaheuristic methods. Working with the course teacher, the students are prepared for independent work on writing a scientific paper.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Glover F, Kochenberger G	Handbook of Metaheuristics	Kluwer	2003
2,	Burke EK, Kendall G	Search methodologies. Introductory tutorials in optimization and decision support techniques	Springer	2005
3,	Ribeiro C and P. Hansen	Essays and surveys in metaheuristics	Kluwer	2001
4,	Talbi, E.-G.	Metaheuristics: From Design to Implementation	Wiley	2009

Table 5.2 Course specification

Course:		Computability Theory		
Course id:	DOM43			
Number of ECTS:	14			
Teachers:	Marković M. Zoran, Ognjanović D. Zoran			
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				

1. Educational goal:

Gaining fundamental knowledge about computability theory.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and results in computability theory. The ability to apply the methods used in this theory in the research of student`s choice, working with scientists in the country and abroad.

3. Course content/structure:

Turing machines, partial recursive functions and other computability systems. Church` thesis. Computability. Recursively enumerable sets. Halting problems. Arithmetic hierarchy of (un)computable sets. Abstract State Machines and applications in specification and verification.

4. Teaching methods:

The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	N. Cutland	Computability, an introduction to recursive function theory	Cambridge university press	1986
2,	H. Lewis	Elements of the theory of computation	Prentice-Hall	1981
3,	Ž. Mijajlović, Z. Marković, K. Došen	Hilbertovi problemi i logika	Zavod za udžbenike i nastavna sredstva	1986
4,	Zoran Ognjanović, Nenad Krdžavac	Uvod u teorijsko računarstvo	Fakultet organizacionih nauka, Beograd	2005

Table 5.2 Course specification

Course:		Categorical Proof Theory		
Course id:	DOM45			
Number of ECTS:	14			
Teacher:		Petrić J. Zoran		
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				

1. Educational goal:

The students are expected to familiarize themselves with the basic results of categorical proof theory, particularly with the coherence results for different categories interesting for classical statement logic.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and results in category theory. Participating in the research in some areas of category theory and proof theory of student`s choice, working with scientists in the country and abroad.

3. Course content/structure:

Fundamental results of the general proof theory, basic notions of category theory, basic notions of categorical proof theory . Introduction to coherence and categorization. Syntactic categories and basic notion of category theory. Monoidal categories. Symmetric monoidal categories. Bimonoidal categories. Dissociative categories. Bicartesian categories. Distributive bicartesian categories. Categories with zero morphisms. Boolean categories.

4. Teaching methods:

The presentation of the theoretical part is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	G. Gentzen	Investigations into logical deduction	North-Holland, Amsterdam	1969
2,	J. Lambek, P.J. Scott	Introduction to Higher Order Categorical Logic	Cambridge University Press	1986
3,	S. Mac Lane	Categories for the Working Mathematician	Springer	1998
4,	K. Došen, Z. Petrić	Proof-Theoretical Coherence	KCL Publications, London	2004

Table 5.2 Course specification

Course:		Computational Complexity Theory		
Course id:	DOM46			
Number of ECTS:	14			
Teachers:		Ognjanović D. Zoran, Urošević -. 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				

1. Educational goal:

Gaining fundamental knowledge about computational complexity theory, taking part in research and scientific work.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and results in computational complexity theory. The ability to apply the methods of this theory in the research area of student`s choice, working with scientists in the country and abroad.

3. Course content/structure:

Computational complexity theory O-notation. Abstract computational complexity. Computational complexity class., class hierarchy. Open problems in complexity class hierarchy. P – NP problem. Complete problems. Probabilistic complexity class. Application of complexity theory in cryptology.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	H. Lewis, C. Papadimitriou	Elements of the theory of computation	Prentice-Hall	1981
2,	C. Papadimitriou	Computational complexity	Addison-Wesley	1995
3,	Zoran Ognjanović, Nenad Krdžavac	Uvod u teorijsko računarstvo	Fakultet organizacionih nauka, Beograd	2005

Table 5.2 Course specification

Course:		Knowledge Representation and Automated Reasoning
Course id:	DOM47	
Number of ECTS:	14	
Teachers:		Marković M. Zoran, Ognjanović D. Zoran, Rašković D. 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

1. Educational goal:

Gaining fundamental knowledge about knowledge representation and automated reasoning and taking part in research and scientific work.

2. Educational outcomes (acquired knowledge):

Knowledge about basic notions and results in the field of knowledge representation and automated reasoning. Taking part in the research work in some areas of knowledge representation and automated reasoning chosen by students and working in cooperation with scientists in the country and abroad.

3. Course content/structure:

Classical logic. Herbrand theorem and Skolem form. Resolution and analytic tableaux in predicate logic. Modal logic (epistimic logic,temporal logic, dynamic logic). Probability logic. Logic for nonmonotonic reasonong. Polyvalent logic. Possibility logic. Intuistionistic logic. Application of logic theories in knowledge modelling. Automated theorem proving.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	H. Lewis, C. Papadimitriou	Elements of the theory of computation	Prentice-Hall	1981
2,	J. Halpern, R. Fagin, Y. Moses, M. Vardi	Reasoning About Knowledge	MIT Press	2003
3,	J. Halpern	Reasoning About Uncertainty	MIT Press	2005
4,	Huges and Creswell	A companion to modal logic	Addison-Wesley	1990
5,	Zoran Ognjanović, Nenad Krdžavac	Uvod u teorijsko računarstvo	Fakultet organizacionih nauka, Beograd	2005
6,	P. Janičić	Matematička logika u računarstvu	Matematički fakultet, Beograd	2004

Table 5.2 Course specification

Course:		Selected Topics in Electronic Business		
Course id:	DRNI16			
Number of ECTS:	14			
Teachers:	Vidaković P. Milan, Sladić S. Goran			
Course status:	Elective			
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
5	0	0	4	0
Precondition courses	None			

1. Educational goal:

Students gain advanced knowledge in the field of research and development electronic business.

2. Educational outcomes (acquired knowledge):

Acquiring knowledge for the analysis of various approaches and solutions in the field of electronic business, as well as the implementation and development of complex heterogeneous electronic business systems.

3. Course content/structure:

Standards in electronic business. Electronic business systems. Technologies for implementing electronic business systems. Development of complex heterogeneous electronic business systems. A part of the course work is conducted through independent individual research study work in the field of electronic business. The research study work requires the student's active and constant interest in and reading of the primary scientific resources and, optionally, writing a paper in the field of electronic business.

4. Teaching methods:

Teaching is performed through: lectures, research work, completing a project, and consultations. Through the teaching process, students are constantly motivated to an intensive discussion, problem oriented reasoning, independent research work and active participation in the whole lecturing process. Students are required to complete an individual project. Preparing a research paper from the course topics is appreciated.

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,	različiti autori	Monografske publikacije i naučni radovi iz oblasti elektronskog poslovanja		2012

Table 5.2 Course specification

Course:		Selected Topics in ICT enhanced learning
Course id:	DRNI17	
Number of ECTS:	14	
Teachers:		Konjović D. Zora, Obradović J. Đorđe
Course status:		Elective

Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
5	0	0	4	0

Precondition courses None

1. Educational goal:

Qualifying students for comprehensive and creative development of ICT powered systems in education.

2. Educational outcomes (acquired knowledge):

After successful course student has gained deep insight in problems and opportunities of contemporary education, especially those emerging from education globalization and ICT applications to education. Also she/he is qualified to design and implement complex software systems for ICT supported learning.

3. Course content/structure:

Theoretical foundations of curriculum. ICT and learning. EU research projects concerning TEL (Technology Enhanced Learning). Technologies of ICT supported learning. Electronic courses management. LMS (Learning Management System) structure, applications, and integration. eLearning and eKonowledge. Models for electronic courses management. TEL in Serbia.

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 dvelop an independent project.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Computer excersise defence	Yes	5.00	Theoretical part of the exam	Yes	30.00
Lecture attendance	Yes	5.00			
Project	Yes	40.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Bloom, B., Engelhart, M., Furst, E., Hill, W., Krathwohl, D.	Taxonomy of Educational Objectives The Classification of Educational Goals	Cognitive Domain, Longmans	1958
2,	William F. Pinar	Understanding Curriculum	Peter Lang Publishing Inc. New York	2008
3,	Francisco Milton Mendes Neto, Francisco Vilar Brasileiro	Advances in Computer-Supported Learning	Idea Group Inc (IGI)	2007
4,	Različiti autori	Monografske publikacije i naučni radovi iz odabranih oblasti elektronski podržanog učenja		2012

Table 5.2 Course specification

Course:		Suistainable safe road design		
Course id:	DSSK6S			
Number of ECTS:	14			
Teachers:		Tollazzi B. Tomaž, Kostić I. Svetozar, Tollazzi B. Tomaž, Kostić I. Svetozar		
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 provide candidates with an understanding of the system driver - vehicle - environment, human psycho-physical properties, the choice of driving speed, orientation and understanding, understanding of the causes of traffic accidents.
•To provide candidates with an understanding of the sustainable safe road design
•To demonstrate how sustainable safe road design should be undertaken
•To provide candidates with the tools to undertake sustainable safe road design
•To provide an examples of previous SSRD undertaken in other countries

2. Educational outcomes (acquired knowledge):

Understanding the system driver - vehicle - environment, human psycho-physical properties, the choice of driving speed, orientation and understanding, understanding of the causes of traffic accidents.
Understanding the concept of sustainable safe road design.

3. Course content/structure:

MODULE 1: HUMAN BEHAVIOUR
1. Human – environment – vehicle system
2. Incident and Accident
3. Accident reasons
4. Random nature of accidents
5. Accident analysis

MODULE 2: SUSTAINABLE SAFE ROAD DESIGN
1SUSTAINABLE SAFE ROAD DESIGN: THEORY
•Safety concept
•Safety principles
•Road functions
•Recognizable road categories
•Road categories
•Network classification
•Capacity

2SUSTAINABLE SAFE ROAD DESIGN: CROSS SECTION
•Cross section
•Intermediate cross sections
•Design of roadside
•Restraint systems

3SUSTAINABLE SAFE ROAD DESIGN: JUNCTIONS
•General requirements
•Roundabout
•Priority junctions
•Priority junctions with traffic lights

4SUSTAINABLE SAFE ROAD DESIGN: ALIGNMENT
•Introduction
•Sight distance
•Horizontal alignment
•Transition curves
•Super elevation
•Vertical alignment
•Composed alignment

5SUSTAINABLE SAFE ROAD DESIGN: LINEAR VILLAGES
•Traffic calming
•Problems encountered linear villages
•Problem analysis
•Goals

•Solutions

6SUSTAINABLE SAFE ROAD DESIGN: PEDESTRIAN CROSSING
•The problem
•Causes / origins
•Objectives
•Solutions
•Give way crossings
•Split level crossings

7 SUSTAINABLE SAFE ROAD DESIGN: CYCLISTS
•General requirements
•Categorisation
•Horizontal alignment
•Cross sections
•Vertical alignment
•Crossings
•Parking places
•Pavement

4. Teaching methods:

At the end of each module: At the end of each module, student completes a short test, which covers the teaching material of that module.
At the end of teamwork: At the end of teamwork, team completed checklists and prepare a final report.

Oral presentations supportet by Power point and case studies of good and bad practice (in teams).
Passing the course means that the following conditions are met:
-knowledge is demonstrated on ongoing verifications
-knowledge is demonstrated at the final hearing.

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,	EU	Directive 2008/96/EC – Road Infrastructure Safety Management (2008)		2008
2,	R.Elvik et al.	Accident Prediction Models and Road Safety Impact Assessments: Results of the Pilot Studies – RI-SWOV-WP2-R4-Results (2007)		2007
3,	Reurings et al.	Accident Prediction Models and Road Safety Impact Assessments – a state of the art study – RI-SWOV-WP2-R1-State of the Art (2008)		2008
4,	Kononov, Allery	Explicit Consideration of Safety in Transportation Planning and Project Scoping (2005)		2005
5,	Kononov et al.	Safety Conscious Planning – Corridor Level Application and a Review of the Case History – Kononov et al (2005)		2005
6,	Falco, Proctor, Gonzales	Euro-Audits		2007
7,	ETSC	Road Safety Audit and Impact Assessment		1997
8,	Proctor et al.	Institute of Highways and Transportation – Road Safety Audit		2008
9,	Nielsen, Mathiasen	Road Safety Audit in Practise		2003
10,	Matena et al.	RIPCORD-ISEREST Road Safety Audit – Best Practise Guidelines, Qualification for Auditors and 'Programming' – RI-WP4-D4		2008

Table 5.2 Course specification

Course:		Engineering of Renewable Energy in Agriculture		
Course id:	ZSP16			
Number of ECTS:	14			
Teachers:		Schulze Lamers H. Peter, Martinov L. Milan, Veselinov V. Branislav		
Course status:		Elective		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
5	0	0	4	0
Precondition courses		None		

1. Educational goal:

Acquiring knowledge in the field, seeing new developments and the ability to define goals and tasks of their ownresearch and development activities.

2. Educational outcomes (acquired knowledge):

Capability for research activities in the area.

3. Course content/structure:

Consideration of new regulations and guidelines in the production and use of renewable energy sources in agriculture and rural areas.
Detailed consideration of European and national regulations in the field.
Modern solutions for the application of solar energy.
Biomass, standardization of procedures, production. Energy-oriented agricultural production, processes, machines.
Fast-growing plants, as sources of energy. Procedures of collection, storage and processing.
The second-generation biofuels, state and perspectives, possibilities for application in Serbia.
Advanced production technology and use of biogas.
Research in the field of renewable energy sources.
Economic and social aspects of production and use of renewable energy sources in agriculture and rural areas.
Impacts on the environment.

Problem definition and goals of action in the future, with special emphasis on research and development activities.

4. Teaching methods:

Auditory teaching, study with mentor, consultation.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Kaltschmitt, M., Hartmann, H.	Energie aus Biomasse, Grundlagen, Techniken und Verfahren	Springer, Berlin	2009
2,	Schmitz, K., Schaumann, G.	Kraft-Wärme-Kouplung	Springer, Berlin	2005
3,	Kitani, O	Handbook of Agricultural Engineering, Volume V Energy and Biomass Engineering	CIGR ASABE	2006
4,	Brkić, M., Janić, T.	Briketiranje i peletiranje biomase	Poljoprivredni fakultet, Novi Sad	2010
5,	Mitić, D., Stnović, Milena, Protić, M.	Biomasa za toplotnu energiju	Univerzitet u Nišu, Fakultet zaštite na radu, Niš	2009

Table 5.2 Course specification

Course:		Logistics Systems		
Course id:	DSN1			
Number of ECTS:	14			
Teachers:		Groznik F. Aleš, Simić S. 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:

To teach the students of doctoral studies to develop a systematic approach and study of logistics systems and logistics processes, modelling of these systems, functional description or simulation of their processes, developing optimal configuration to realize spatial and temporal transformation of the matter, energy and information within a logistic system, control and monitoring of a logistic system.

2. Educational outcomes (acquired knowledge):

The acquired theoretical and practical knowledge and skills necessary for research and analysis of the existing logistics systems, determining their place and role in a logistics environment, improving the existing logistics systems and designing optimal configuration logistics systems and logistics processes within new logistics systems.

3. Course content/structure:

Elements of system theory applied to the analysis of logistics systems. Classification of logistics systems (micro, meta, macro, inter, intra, etc) . Classification of logistics subsystems (primary, secondary, tertiary, quartile and quinta); Functions of logistics; Institutional aspects of logistics functions; Economic and international aspects of logistics systems; Designing, planning and optimization of logistics networks; Functional analysis and of relations and entities of logistics systems. Methods and models of designing logistics chains configurations; Logistics systems in production, trade, distribution and consumption (realization of order, warehouse, reloading, packaging, transport). Warehouse management systems. Transport management systems.

4. Teaching methods:

Lectures, computer practice, practicals,. Developing, presenting and defending two seminar papers (paper I: improvement of an existing logistics system, paper II: designing a new logistics system)

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	20.00	Oral part of the exam	Yes	50.00
Term paper	Yes	30.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Bloomberg D., LeMay S., Hanna J	Logistika,Prevod dela	Zagrebačka škola ekonomije i menagementa	2006
2,	Langevin A., Riopel D.	Logistics System	Springer Sciennce+Business Media Inc., USA	2005
3,	Zečević S.	Robni terminali i robno-transportni centri	Saobraćajni fakultet, Beograd,	2006
4,	Ratko Zelenika	Logisticki sustavi	Ekonomski fakultet Rijeka	2005

Table 5.2 Course specification

Course:		Topics in Information Security and Information Systems		
Course id:	DOM51			
Number of ECTS:	14			
Teacher:		Mihaljević J. 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				

1. Educational goal:

a) Mastering the basics of imposing protection - security of information and information systems by introduction to certain classes of problems and methods/techniques of establishing information security. b) providing the basis for research work in the field of cryptology and information security.

2. Educational outcomes (acquired knowledge):

Basics of informatics/computing and cryptology.

3. Course content/structure:

1) Introduction to information security. 2) Inormation security of computers and networks 3) Internet and information security 4) Wireless communication and information security 5) Access control 6) Database security 7) Risk management 8) Standardization of information security 9) Information security of specialized information systems (I) 10) Information security of specialized information systems (II).

4. Teaching methods:

Consultations and lectures.

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,	H. Bidgoli, Editor-in-Chief	Handbook of Information Security}	John Wiley\& Sons, Hoboken, New Jersey	2006
2,	A. Menezes, P.C. van Oorschot and S. Vanstone	Appllied Cryptography		2001
3,	M. Gertz and S. Jajodia (Eds)	Handbook of Database Security: Applications and Trends	Springer	2008
4,	E. Humphreys	Implementing the ISO/IEC 27001 Information Security Management System Standard	Artech House, Boston, 2007	2007

Table 5.2 Course specification

Course:		Selected Topics in Digitization of Cultural and Scientific Heritage		
Course id:	DOM52			
Number of ECTS:	14			
Teachers:		Mijajlović -. Žarko, Ognjanović D. Zoran		
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:

Acquiring fundamental knowledge in the field of digitization of cultural and scientific heritage.

2. Educational outcomes (acquired knowledge):

Knowledge of the basic notions and procedures in the field of digitization of cultural and scientific heritage. Participating in the research in certain areas of digitization of cultural and scientific heritage, chosen by the student, and working with scientists from the country and abroad.

3. Course content/structure:

Formats of textual, audio and image data. Digital libraries. Standards for digitization and metadata. Compression algorithms. Internet and heritage digitization.

4. Teaching methods:

The presentation of the theoretical part during the lectures is followed by the corresponding examples which contribute to better understanding of the theoretical part. The students are expected to individually study the additional literature and discuss it with the subject teacher at the consultation classes. 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	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	T. Vaugham	Multimedia, How it works	Osborne-McGraww-Hill	2001
2,	Ž. Mijajlović, Z. Ognjanović	Review of the National Center for Digitization	Matematički fakultet, Beograd	2002

Table 5.2 Course specification

Course:		Nonlinear Mechanics with Nonconservative Properties		
Course id:	DM407			
Number of ECTS:	14			
Teacher:		Simić S. Srboljub		
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:

Acquiring knowledge of basic principles of analysis of nonlinear and nonconservative mechanical systems.

2. Educational outcomes (acquired knowledge):

Ability to apply the methods of analysis of nonlinear and nonconservative systems in solving engineering problems.

3. Course content/structure:

Conservation laws of conservative and nonconservative dynamical systems. Theorem of Emmy Noether. Generalized Killing's equations. Application of Hamilton-Jacobi method and the field method in nonlinear and nonconservative mechanics. Applications in the theory of nonlinear oscillations. Variational principles with vanishing parameter. Variational principle with noncomutative variational rule. Gauss' principle.

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.D. Vujanovic and T.M. Atanackovic	An introduction to modern variational techniques in mechanics	Birkhauser Boston	2004
2,	B.D. Vujanovic and S.E. Jones	Variational methods in nonconservative phenomena	Academic Press NY	1989

Table 5.2 Course specification

Course:		Chaos in Dynamic Systems		
Course id:	DM405			
Number of ECTS:	14			
Teacher:		Cvetićanin J. Livija		
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:

Development of abstract thinking and mastering methods of chaos testing in dynamic systems.

2. Educational outcomes (acquired knowledge):

Ability to recognize and analyse chaotic movements of mechanic systems.

3. Course content/structure:

Qualitative dynamics. Vector field as a dynamic system. Balance position and their stability. Attractors. Poincare conjecture. Bifurcation of periodic orbits. Chaos in deterministic systems. Criterion for chaos existing. Melnikov criterion. Numerical method for chaotic movement analysis. Qualitative measures of deterministic chaos. Ljapunov characteristic exponent. Strange attractors. Examples of chaos: Van der Pol`s oscillator, Duffing equation, Lorenz equations.

4. Teaching methods:

Lectures. Mentor 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,	J.M.T. Thompson and H.B. Stewart	Nonlinear Dynamics and Chaos	John Wiley and Sons, NY	1986
2,	S. Wiggins	Global Bifurcations and Chaos	Springer-Verlag, NY	1988
3,	J. Guckenheimer and P. Holmes	Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields	Springer-Verlag NY	1983

Table 5.2 Course specification

Course:		Mathematical Rod Theory		
Course id:	DM403			
Number of ECTS:	14			
Teachers:		Maretić B. Ratko, 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:

Formulating and solving problems of elastic rod stability theory.

2. Educational outcomes (acquired knowledge):

Ability to apply methods of mathematical theory of elastic rods in solving engineering problems.

3. Course content/structure:

Basic equations of nonlinear theory of elastic rods. Great deformations and material nonlinearity. Plain and spatial deformations. Influence of compressibility axis and sharing load on balance equations and movement. Stability analysis procedures. Euler`s method and their relation to bifurcations. Energy method. Ljapunov dynamic method and their relation to Euler`s and energy method. Examples of elastic rods stability analysis.

4. Teaching methods:

Lectures. Mentor work. Science and research 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,	T. Atanackovic	Stability Theory of Elastic Rods	World Scientific	1997

Table 5.2 Course specification

Course:		Selected Chapters in FEM		
Course id:	GD011			
Number of ECTS:	14			
Teacher:		Kovačević I. 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:

Acquiring knowledge in the field of numerical modelling of structure behaviour using finite elements method (FEM) with the aim of applying, evaluating, and developing FEM and FEM software for structural analysis.

2. Educational outcomes (acquired knowledge):

The ability of numerical modelling of structure behaviour using finite elements method (FEM). with the aim of applying, evaluating, and developing FEM and FEM software for structural analysis.

3. Course content/structure:

Modelling and numerical modelling of structures. The importance of finite elements method (FEM) in continuum mechanics. Historical development of FEM. Various types of FEM. Algorithm concept of FEM modelling. Geometric modelling – discretization. Numeric modelling – approximation. Forms and types of finite elements (FE). Interpolation functions. Conformity and continuity. Linear, surface and space FE. FE stiffness matrix. FE networks and systems. Boundary and conditions. Stiffness matrix of FE system. FEM system of equations. Existence and error of FEM solution. FEM modelling in dynamic structural analysis. Computer implementation of FEM.

4. Teaching methods:

Interactive work with students aimed at continual supervision of their level of knowledge. Theoretical analysis of the phenomena covered by the course material and FEM numerical modelling of structures for two different actions using CASA (Computer Aided

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Term paper	Yes	50.00	Theoretical part of the exam	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Miodrag Sekulović	Metod konačnih elemenata	Građevinska knjiga	1988
2,	Dušan Kovačević	MKE modeliranje u analizi konstrukcija	Građevinska knjiga, Beograd	2006
3,	Bathe K.J.	Finite Element Procedures	Prentice Hall	1996
4,	Hartmann F., Katz C.	Structural Analysis with Finite Elements	Springer, New York	2003
5,	Wilson E.L.	Three-Dimensional Static and Dynamic Analysis of Structures	CSI, Berkeley	2002

Table 5.2 Course specification

Course:		Selected Chapters in Biomedical Instrumentation and Telemetry		
Course id:	DAU009			
Number of ECTS:	14			
Teachers:		Jorgovanović Đ. Nikola, Bojanić M. Dubravka		
Course status:		Elective		
Number of active teaching classes (weekly)				
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:
5	0	0	4	0
Precondition courses		None		

1. Educational goal:

The acquisition of knowledge in the field of biomedical instrumentation and telemetry. Students should be acquainted with current literature and take part in active research work in the field of biomedical instrumentation and telemetry.

2. Educational outcomes (acquired knowledge):

Students should be acquainted with current literature and take part in active research work in the field of biomedical instrumentation and telemetry.

3. Course content/structure:

Basic concepts of medical instrumentation. Basic sensors and principles. Amplifiers. Biopotentials. Biopotential electrodes and amplifiers. Blood pressure and sound. Measurement of flow and volume of blood. Measurement of the respiratory sistem. Chemical biosensors. Clinical laboratory instrumentation. Medical imaging systems. Therapeutic and prosthetic devices (cardiac pacemaker, defibrillators and cardioverters, surgical instruments, hemodialysis...). Telemedicine: remote access to
health services and information. Telediagnostic, teleconsulting, telemonitoring, telecare. Standards for handling, storing, printing, and transmitting information, DICOM standard.

4. Teaching methods:

Lectures, consultations. Research and study 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,	Webster,J.G. (Ed.)	Medical Instrumentation, Application and Design	J. Wiley & Sons, Inc., New York	1995
2,	Webster,J.G. (Ed.)	Bioinstrumentation	John Wiley & Sons, Inc., New York	2003

Table 5.2 Course specification

Course:		Digital Image Processing Algorithms		
Course id:	DE412			
Number of ECTS:	14			
Teachers:		Crnojević S. Vladimir, Trpovski V. Željen		
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:

Knowledge about the algorithms which are used in digital image processing. Knowledge about the latest methods in this field through several projects.

2. Educational outcomes (acquired knowledge):

Students will be able to understand basic algorithms which are used in digital image processing and can expand their knowledge by working at a particular problem related to their doctoral dissertation.

3. Course content/structure:

Primitive tools for digital image processing.
Theorems of pre-processing of line and edge detection.
Image compression
Image restoration
Image matching
Parallel algorithms for digital image processing
Part of the course is based on the independent study and research work in the field of algorithms for digital image processing.
Study and research work is based on the primary scientific sources, organization and conduction of experiments as well as statistical analysis of data, numerical simulations, and writing a paper on the narrow scientific area in which doctoral dissertation is based

4. Teaching methods:

Lectures. Consultations. Study and research work..

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	30.00	Written part of the exam - tasks and theory	Yes	70.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Rafael Gonzalez, Richard Woods	Digital Image Processing	Prentice Hall	2002

Table 5.2 Course specification

Course:		Signal Processing in Medical Research		
Course id:	DE411			
Number of ECTS:	14			
Teacher:		Bajić D. Dragana		
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 the course is to teach students about the latest trends and methods of signal processing used in top medical research.

2. Educational outcomes (acquired knowledge):

Students will be able to independently and creatively think in a different professional environment.

3. Course content/structure:

Depends on the current research projects to which it is closely related.
Part of the course is based on the independent study and research work in the field of signal processing in medical research.
Study and research work is based on the primary scientific sources, organization and conduction of experiments as well as statistical analysis of data, numerical simulations, and writing a paper on the narrow scientific area in which doctoral dissertation is based.

4. Teaching methods:

Lectures and presentations, visits to laboratories, active participation through projects and homework assignments. Study and research work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project defence	Yes	50.00	Written part of the exam - tasks and theory	Yes	50.00

Literature

Ord.	Author	Title	Publisher	Year
1,	Više autora	Odabrani radovi iz vodećih međunarodnih časopisa	IEEE	2007

Table 5.2 Course specification

Course:		Automation and Robotics in Construction		
Course id:	GD018			
Number of ECTS:	14			
Teachers:		Borovac A. Branislav, 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 introduce students to new areas in the application of automation and non-industrial robotics in construction (service robotics, humanoid robotics...). The objective is also to introduce students with the course into the research and scientific work.

2. Educational outcomes (acquired knowledge):

Course outcome is the ability of students to understand the issues in automation and robotics, and to enable them to participate in the field actively.

3. Course content/structure:

Introductory observations and fundamental notions. System defining and classification. System analysis. Technical system management. Automated systems. Automated protection systems. Signal acquisition. Events monitoring and processing. Event chronology and analysis. Monitoring systems for non-industrial processes. Safety in monitoring systems. Application of service robots (in households, construction, hazardous environment, inspection robots, safe-guard robots…), robot autonomy, management and regulation in biological systems, comparison of “managing architecture” of biological systems and autonomous robots, types of autonomous robots from the aspect of movement (robots on wheels and caterpillars, robots that jump, snake-like robots, robots that fly, multi-legged and two-legged locomotion…), robotic learning, grasping, humanoid robots.

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. Mikell	Automation, production System and Computer Integrated Manufacturing	Prentice Hall	2003

Table 5.2 Course specification

Course:		Models of Economic Evaluation of Projects for Environment Protection
Course id:	ZDO42	
Number of ECTS:	14	
Teachers:		Pavlović D. Milan, Vujić V. Goran
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 enable students to understand and apply the principles of integrated sustainable economical and environmental science at market conditions at local, national and global markets.

2. Educational outcomes (acquired knowledge):

To train doctoral students to present market conditions in a sustainable way for the purpose of integrating economic goals, maintaining and improving environmental quality.

3. Course content/structure:

Fundamentals of business ecology. National economic interest and planetary sustainable development. Sustainable technological development. Impact of EMS on innovation processes and products. Economic valuation of biodiversity. Indicators in ecological economics. Economic and environmental concept for the evaluation of environmental services. The costs of pollution prevention and reduction of pollution and specific economic interest in protecting the environment. Modeling in ecological economics. Ecological marketing. The influence of eco-labels on business success. Ecological branding. Ecological entrepreneurship. Ecological entrepreneurship and sustainable development. Ecological entrepreneurship and legal regulations. Influence of integrated management systems on the development of ecological entrepreneurship. Directions for development of ecological entrepreneurship. Standardization of environmental metrics. Analysis of ecological service programs in developed and developing countries. Launch of eco-businesses. Ecological incubation centers. Ecological entrepreneurship in Serbia, the state and development.

4. Teaching methods:

Lectures, dialogue, seminars,pre-examination obligations.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	5.00	Coloquium exam	No	20.00
Lecture attendance	Yes	5.00	Oral part of the exam	Yes	70.00
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Pavlović, M	Kvalitet i integrisani menadžment sistemi	Tehnički fakultet «M. Pupin» Zrenjanin	2006
2,	. Winter, G	Business and the Environment	Mc Grow Hill	1998
3,	J. Bennet	Ecopreneuring	John Wiley & Sons, Inc., New York	2001
4,	Heal, G	Nature and Marketplace	Island Press, Washington	2000
5,	Hanley, N, et all,	Environment Economics in Theory and Practice	Oxford University Press, Oxford	1997

Table 5.2 Course specification

Course:		Selected Topics in the Field of Automatic Control		
Course id:	DE410			
Number of ECTS:	14			
Teacher:		Kulić J. Filip		
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				

1. Educational goal:

Providing deeper knowledge (theoretical and practical) in the field of automatic system control (analogue and digital) .

2. Educational outcomes (acquired knowledge):

- the ability to successfully apply some of control algorithms on the concrete problem related to the topic of doctoral dissertation.

3. Course content/structure:

Mathematical description of continual linear and nonlinear systems. Determining the quality of control in stationary and transition regime. Analysis of the stability of the system using analytical methods. Choice and tuning of parameters of industrial regulators: PID regulator. Direct digital control, Z-transformation. Concept of digital system state. Analysis of digital systems. Stability of digital system. Design of digital control systems: regulators, PID regulators, servo regulators, cancelling of system dynamics, regulators in space state. Implementation of digital control algorithms. Part of the course is based on the independent study and research work in the field of automatic control. Study and research work is based on the primary scientific sources, organization and conduction of experiments as well as statistical analysis of data, numerical simulations, and writing a paper on the narrow scientific area in which doctoral dissertation is based.

4. Teaching methods:

Lectures, consultations, study and research work.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Homework	Yes	30.00	Oral part of the exam	Yes	30.00
			Practical part of the exam - tasks	Yes	40.00

Literature

Ord.	Author	Title	Publisher	Year
1,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice Hall	1997
2,	R. Isermann	Digital Control Systems	Springer-Verlag	1999
3,	M. Stojić	Digitalni sistemi upravljanja	Nauka, Beograd	1990

Table 5.2 Course specification

Course:		Selected Chapters in Computational Intelligence		
Course id:	DRNI07			
Number of ECTS:	14			
Teachers:		Konjović D. Zora, Kovačević D. Aleksandar, Obradović J. Đorđe		
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 the acquisition of knowledge in the field of computer intelligence and understanding the possibilities of implementation of artificial intelligence techniques and methods in different fields.

2. Educational outcomes (acquired knowledge):

The student is able to develop new techniques and methods of computer intelligence and to implement the existing methods in different fields in a new and creative way.

3. Course content/structure:

Selected methods and techniques of computer intelligence. Selected problems whose solution requires the implementation of methods and techniques of artificial intelligence. Examples of solved and unsolved problems.
A part of the course work is conducted through independent individual research study work in the field of Artificial Intelligence. The research study work requires the student`s active and constant interest in and reading of the primary scientific resources and, optionally, writing a paper in the field of Artificial Intelligence.

4. Teaching methods:

Lectures, practical computer work, project work and tutorial work. Using the necessary didactic tools, the lectures present the course content and stimulate the active participation of students by asking them to present a part of the course content assigned to them. The practical knowledge required by the course in obtained through computer practice. The student is required to do the project work on his own.

Knowledge evaluation (maximum 100 points)

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Project	Yes	25.00	Oral part of the exam	Yes	50.00
Project task	Yes	5.00			
Term paper	Yes	20.00			

Literature

Ord.	Author	Title	Publisher	Year
1,	Različiti autori	Monografske publikacije i naučni radovi iz odabranih oblasti računarske inteligencije		2007

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

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

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

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 Dcotoral 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

Standard 06. Programme Quality, Contemporaneity and International Compliance

The Study Programme is consistent with the modern scientific developments in the world and the status of the profession, and comparable to similar programmes in foreign higher education institutions.
Mathematics in Engineering Study Programme is formed so as to satisfy all the requested objectives. The structure of the Mathematics in Engineering Study Programme is designed as comprehensive enough to offer students the latest scientific and technical knowledge in this area and follow the latest scientific developments.
Mathematics in Engineering Study Programme is comparable to and in compliance with:
1.Technische Universitat Wien, www.tuwien.ac.at/
2.ETH (Die Eidgenossische Technsche Hochschule), Zurich, www.ethz.ch
3.Tennessee Technological University, www.tntech.edu
4.Massachusetts Institute of Technology, www.mit.edu

The Study Programme is formally and structurally consistent with the adopted subject specific standards for accreditation and conformity with European standards in terms of enrolment, length of study, conditions of enrolling in the next year of study, obtaining a diploma and methods of study.

Standard 07. Student Enrollment

Faculty of Technical Sciences announces competition for admission of candidates to the study programme of Doctoral Academic Studies Mathematical in Engeering in accordance with the social needs, available resources and approved number of students in the accreditation procedure. The number of students to be enrolled and the method of financing their studies (budget or self-financed) is defined each year by the special Decision of the Teaching Academic Council of the Faculty of Technical Sciences.

In the first year of doctoral studies may enroll a person who has completed the appropriate undergraduate academic and master academic studies in the aggregate are worth a total of at least 300 ECTS credits and average grade:
at undergraduate studies at least 8.00
at master academic studies at least 8.00
, as defined by the Rules and regulations on enrollment and studying at the doctoral studies and PhD titles at the Faculty.
Doctoral studies can (under specific conditions) enroll a person who does not have fulfilled these conditions. Conditions of enrollment of such persons is also regulated by these Rules and regulations .

The Committee for the Study Programme Quality of the Doctoral Academic Studies in Matematical in Engeering evaluates the previously completed study programmes of all applied candidates and makes the decision whether or not they are adequate for the enrolment.

Candidates who completed the adequate study programme, according to the Committee's opinion, acquire the right to enroll the Doctoral Academic Studies. The Committee for Quality makes the decision whether the candidates, who have the right to enroll, have to take the entrance examination. If the Committee for Quality makes the decision on taking the entrance examination, then the candidates take the entrance examination: Testing the knowledge in the field of the study programme.
The final ranking list for enrolment of the candidates is formed based on the success during previous education, on the duration of the studies and achieved success at the entrance examination, as defined by the Regulations of the Student Enrolment to the Study Programmes.
In accordance to the Regulations of the Student Enrolment to the Study Programmes, the Committee has the right to approve the enrolment of candidates who did not complete the adequate undergraduate academic and master academic studies and worth at least 300 ECTS credits, only if there are free places left after all candidates, who fulfill the set conditions by the Competition (adequate undergraduate academic and master academic studies, passed entrance examination), had enrolled. Candidates who did not complete the adequate study programme of undergraduate academic studies, according to the professional opinion of the Committee, may be allowed to enroll if the entrance examination is passed. In this case, the Committee determines the difference in examinations that need to be passed from the undergraduate academic studies for each of these candidates individually. The sum of the ECTS courses which are determined by this difference must not exceed 30 (thirty).
In addition, the candidate is required to know world languages and to have IT skills which guarantees the smooth attendance of classes and the use of literature.
At enrolment, the student and the Faculty conclude an agreement on the rights and obligations during studies.

Standard 08. Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students` accomplishments throughout the academic year and the success at the final examination.
Students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme. Each course within the programme is worth a certain number of ECTS credits which students obtain by successfully passing the course examination. The number of ECTS credits is based on the students` work load during a course and on the Faculty of Technical Sciences` unique methodology for all study programmes. Students` success in mastering a certain course is continually monitored during classes and is expressed in points. The maximum number of points obtained in a course is 100.
Students obtain points from a course through their work during classes, completion of the pre exam duties and taking the examination. The minimum number of points a student can obtain by fulfilling the course prerequisites during classes is 30, the maximum 70.
Each course at the study programme has a clear and transparent mode of obtaining points. The ways of obtaining points during the classes includes the number of points obtained on the basis of each individual activity during the classes or completing pre exam assignments and by passing the course examination.
The final success of students at a course is presented with a grade from 5 (fail) to 10 (excellent). The student`s grade is based on the overall number of points obtained by fulfilling pre exam assignments and taking the examination, and in accordance with the quality of acquired knowledge and skills.
For students to be able to take a course examination, they have to obtain at least 15 points of the overall number of points through pre exam assignments during the semester. Additional requirements for taking the examination are defined separately for every course.
Studying at the study programme is carried out in the following way:
The Head of the Study Programme , upon admission, assigns for every student a supervisor from the existing teaching stuff at the study programme, who will be their councillor until they choose a mentor. At the end of each semester, the supervisor submits to the Head of the Study Programme a report on the student`s work at a research project and the achieved results.
The requirement for admission to the next year of study programme is defined in the Regulations.
The right to take the qualifying exam in order to be able to write and defend the doctoral dissertation (a research study of the theoretical framework for the doctoral thesis) is given to students who have completed the second year of studies and passed all the examinations within the study programme. The research study on the Theoretical Framework for the Doctoral Dissertation is a qualifying examination the student has to pass before he is allowed to start writing the doctoral thesis.(Research study on Theoretical Bases of Doctoral Dissertation is a qualifying examination for the preparation of a doctoral dissertation in which students demonstrate that they have mastered the necessary theoretical knowledge in the scientific areas of interest) worth 30 ECTS credits which are taken in the form of an exam . The qualifying examination is taken before a three-member jury, three being the minimum number of members, who are appointed by the Head of the Doctoral Studies at the Study Programme Quality Committee`s suggestion. The Theoretical Framework examination cannot be taken sooner than 30 days, upon a student`s request, or later than 12 months after the student has passed his last examination at the study programme.
Exams in doctoral studies can be taken up to three times.
The final part of doctoral studies is the preparation and defense of a doctoral dissertation.
Student advancement during the studies is defined by the Rule book on doctoral academic studies.

Standard 09. Teaching Staff

For the realization of the study programme Mathematics in Engineering, there is 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 journals, 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.

Mentor has at least five papers in the last ten years of published or accepted for publication in scientific journals in a given field. It has been established that a supervisor cannot lead more than five Doctoral dissertation candidates simultaneously. 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. The total number of teachers is sufficient to cover the total number of classes on the study programme, so each teacher has an average of 180 active classes (lectures, tutorials, practice classes, field classes) per year, i.e. 6 classes per week. Out of the total number of necessary teachers, over 50% are full time employed. A minimal number of teachers participating in the given study programme with full time employment is five.

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, appointments and references) are available to the public.

Science, arts and professional qualifications

Name and last name:	Schulze Lamers H. Peter
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Biosystems Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009		Biosystems Engineering
PhD thesis	2004	Essex university - Nepoznato	Biosystems Engineering
Bachelor's thesis	1980	Essex university - Nepoznato	Mechanical Engineering
Magister thesis	1900		Biosystems Engineering

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

	ID	Course name	Study programme name, study type
1.	SZSP14	Contemporary approach to the biosystems engineering	(Z00) Environmental Engineering, Specialised Academic Studies
2.	SZSP16	Engineering of renewable enery sources in agriculture	(Z00) Environmental Engineering, Specialised Academic Studies
3.	ZSP14	Contemporary Approaches to Sustainable Engineering Biosystems	(Z00) Environmental Engineering, Doctoral Academic Studies
4.	ZSP16	Engineering of Renewable Energy in Agriculture	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sun, Y., Schulze Lammers, P. Ma, D., Lin, J., Zeng, Q. (2008) Determining soil physical properties by multi-sensor technique. Sensors & Actuators: A 147, p 352-357
2.	Konstantinovic, M., Wöckel, S., Schulze Lammers, P., Sachs, J.(2008) UWB Radar System for Yield Monitoring of Sugar Beet. Transactions of the ASABE, 51(2): 753-773
3.	Haas, T., Schulze Lammers, P., Diekmann, B., Horner, G. and Boeker, P. (2008) A method for online measurement of odour with a chemosensor system. Sensors & Actuators, B Chemical, 132 p545-550
4.	Sun, Y., Lin. J., Zeng, Q., a. P. Schulze Lammers (2006) Determination of penetration force using a Hall-current sensor. Soil Tillage Research 92, p 264-268
5.	Sun, Y., Lin. J., Schulze Lammers, P. a. L. Damerow (2006) Estimating surface porosity by roughness measurement in a silt-loam field. J. Plant Nutr. Soil Sci. 169 (5), p 630-632y
6.	Sun, Y., Ma, D., Schulze Lammers, P., Schmittmann, O. a. M. Rose (2005) On-the-go-measurement of soil water content and mechanical resistance by a combined horizontal penetrometer. Soil & Tillage Research 86, p 209-217
7.	Sun, Y., Schulze Lammers, P. a. D. Ma (2004) Evaluation of a combined penetrometer for simultaneous measurement of penetration resistance and soil water content. J. Plant Nutr. Soil Sci. 2004, 167, p 1-7
8.	Hamacher, T., Nieß, J., Boeker, P., Schulze Lammers, P. a. B. Diekmann (2003) Online odour measurement close to the odour threshold with a QMB sensor system with integrated preconcentration unit. Sensors and Actuators B95, ELSEVIER, p 39-45
9.	Schulze Lammers, P. a. J. Strätz (2003) Progress in soil tare separation in sugar beet harvest. J. Plant Nutr. Soil Sci. 166, ELSEVIER, p 126-127
10.	Schramm, U., Meinhold, D., Winter, S., Heil, C., Müller-Albrecht, J., Wächter, L., Hoff, H., Roesky, C., Rechenbach, T., Boeker, P., Schulze Lammers, P., Weber, E. a. J. Bargon (2000) A QMB-based temperature-modulated ammonia sensor for humid air. Sensors and Actuators B67, ELSEVIER, p 219-226

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

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

Science, arts and professional qualifications

Name and last name:	Tollazzi B. Tomaž
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Traffic Paths

Academic carieer	Year	Institution	Field
Academic title election:	2012		Traffic Paths
PhD thesis	1995	University of Maribor - Maribor	Traffic Paths

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

	ID	Course name	Study programme name, study type
1.	DSSK6S	Suistainable safe road design	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	LERHER, Tone, POTRČ, Iztok, ŠRAML, Matjaž, TOLLAZZI, Tomaž. Travel time models for automated warehouses with aisle transferring storage and retrieval machine. Eur. J. oper. res.. [Print ed.], Sep. 2010, vol. 205, iss. 3, str. 571-583, doi: 10.1016/j.ejor.2010.01.025. [COBISS.SI-ID 13815830], [JCR, WoS up to 7. 5. 2010: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0, Scopus up to 13. 6. 2012: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 3]
2.	LERHER, Tone, ŠRAML, Matjaž, POTRČ, Iztok, TOLLAZZI, Tomaž. Travel time models for double-deep automated storage and retrieval systems. Int. J. Prod. Res., June 2010, vol. 48, no. 11, str. 3151-3172, doi: 10.1080/00207540902796008. [COBISS.SI-ID 13163286], [JCR, WoS up to 7. 5. 2010: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0, Scopus up to 18. 6. 2012: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0]
3.	TOLLAZZI, Tomaž, ŠRAML, Matjaž, LERHER, Tone. Roundabout arm capacity determined by microsimulation and discrete functions technique. Promet (Zagreb), 2008, vol. 20, no. 5, str. 291-300. [COBISS.SI-ID 12787222], [JCR, WoS up to 7. 8. 2009: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1, Scopus up to 21. 6. 2012: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1]
4.	TOLLAZZI, Tomaž, LERHER, Tone, ŠRAML, Matjaž. The use of micro-simulation in determining the capacity of a roundabout with a multi-channel pedestrian flow. Stroj. vestn., 2008, letn. 54, št. 5, str. 334-346. http://en.sv-jme.eu/scripts/download.php?file=/data/upload/SV_JME_54(2008)05_334_346_Sraml.pdf. [COBISS.SI-ID 12305174], [JCR, WoS up to 7. 8. 2009: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1, Scopus up to 13. 6. 2012: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1]
5.	TOLLAZZI, Tomaž, LERHER, Tone, ŠRAML, Matjaž. Analiza vpliva prometnega toka pešcev na prepustno zmožnost krožišča z uporabo diskretnih simulacij = An analysis of the influence of pedestrians` traffic flow on the capacity of a roundabout using the discrete simulation method. Stroj. vestn., 2006, letn. 52, št. 6, str. 359-379. http://www.sv-jme.eu/scripts/download.php?file=/data/upload/2006/6/SV-JME_52(2006)06_359-379_Tollazzi.pdf. [COBISS.SI-ID 10601494], [JCR, WoS up to 7. 8. 2009: no. of citations (TC): 3, without self-citations (CI): 1, weighted no. of citations (NC): 1, Scopus up to 1. 8. 2012: no. of citations (TC): 6, without self-citations (CI): 3, weighted no. of citations (NC): 4]
6.	ŠRAML, Matjaž, TOLLAZZI, Tomaž, RENČELJ, Marko. Traffic safety analysis of powered two-wheelers (PTWs) in Slovenia. Accident anal. prev.. [Print ed.], Available online 30 January 2012, doi: 10.1016/j.aap.2011.12.013. [COBISS.SI-ID 15767574], [JCR, Scopus up to 30. 10. 2012: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0]
7.	TOLLAZZI, Tomaž, RENČELJ, Marko, RODOŠEK, Vlasta, ZALAR, Borut. Traffic safety of older drivers in various types of road intersections. Promet (Zagreb), 2010, vol. 22, no. 3, str. 193-201. [COBISS.SI-ID 14240022], [JCR, WoS up to 10. 4. 2012: no. of citations (TC): 1, without self-citations (CI): 1, weighted no. of citations (NC): 1, Scopus up to 30. 5. 2012: no. of citations (TC): 4, without self-citations (CI): 4, weighted no. of citations (NC): 4]
8.	TOLLAZZI, Tomaž, RENČELJ, Marko, TURNŠEK, Sašo. New type of roundabout : roundabout with "depressed" lanes for right turning - "flower roundabout". Promet (Zagreb), 2011, vol. 23, no. 5, str. 353-358. [COBISS.SI-ID 15507990], [JCR, WoS up to 8. 5. 2012: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0, Scopus up to 28. 12. 2011: no. of citations (TC): 0, without self-citations (CI): 0, weighted no. of citations (NC): 0]
9.	TOLLAZZI, Tomaž, RENČELJ, Marko. Typical deficiencies in traffic safety and irregularities of Slovenian roads. V: 5th International Congress SIIV ROMA MMXII, Rome, Italy, 29-31 October 2012. Sustainability of road infrastructures. Roma: Sapienza Università di Roma: Società Italiana Infrastrutture Viarie: Dipartimento di Ingegneria Civile, Edile e Ambientale, 2012, [9] str. [COBISS.SI-ID 16408086]
10.	TOLLAZZI, Tomaž, RENČELJ, Marko, TURNŠEK, Sašo. Roundabout with "depressed" lanes for right turning - "flower roundabout". V: 3rd International Conference on Roundabouts, Carmel, Indiana, May 18-20, 2011. 2011 TRB Roundabout Conference. [S. l.]: TechAmerica, 2011, 11 str. http://teachamerica.com/RAB11/RAB11Papers/RAB1116Tollazzi-0130.pdf. [COBISS.SI-ID 15161110]

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

Quotation total :	17
Total of SCI(SSCI) list papers :	8

Current projects :	Domestic :	5	International :	0

Science, arts and professional qualifications

Name and last name:	Adžić Z. Nevenka
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.09.1978
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	1990	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1986	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	N. Adzic, On the spectral solution for boundary value problem, ZAMM 70,(1990) 6, T647-T649.
2.	V. Vrcelj, N. Adzic, Z. Uzelac: A numerical asymptotic solution for singular perturbation problems, International journal of computer mathematics, Vol.39, (1991) 229-238.
3.	N. Adzic: Modified hermite polynomials in the spectral approximation for boundary layer problems, Bulletin of the Australian mathematical society, Vol.45, (1992) 267-276.<\eng>
4.	N. Adzic: Spectral approximation for single turing point problem, ZAMM72(1992)6, T621-T624.
5.	N. Adzic: Nonclassical orthogonal polynomials and singularly perturbed problems, ZAMM73(1993) 7/8, T868-T871.
6.	N. Adzic: Spectral approximation and asymptotic behaviour of boundary layer problems, ZAMM74(1994)6, T-553-T555.
7.	N. Adzic, Z. Uzelac: A combination of spline and spectral approximation for a class of singularly perturbed problems, ZAMM78 (1998), S853-S854
8.	Z. Uzelac, N. Adzic: The Approximate Solution for Problems with Nonlocal Boundary Conditions, ZAMM79 (1999), S881-S882
9.	N. Adzic, Z. Uzelac: On spectral approximation for some two-dimensional singularly perturbed problems, ZAMM79 (1999), S851-S852
10.	N. Adzic: On the spectral approximation for singularly perturbed problems,ZAMM 71(1991)6,T773-T776.

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

Science, arts and professional qualifications

Name and last name:	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 carieer	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 (GI0) 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 (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

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 refferences (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

Science, arts and professional qualifications

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

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

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

	ID	Course name	Study programme name, study type
1.	EK313	Computer Communication	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	BMI105	Statistical basics, processing and modelling of biomedical signals	(BM0) Biomedical Engineering, Undergraduate Academic Studies
3.	BMI123	Advanced biomedical signal analysis	(BM0) Biomedical Engineering, Undergraduate Academic Studies
4.	EK202	Communication networks - introduction	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	EK458	Telecommunication networks	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	EK460	Biomedical signal processing	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
7.	ETI21	Communication Protocols	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE411S	Signal processing in medical research	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	EK530	Nonlinear Biomedical Signal Processing	(OM1) Mathematics in Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EK531	Multiuser Detection	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	SI029	Biomedical signal processing	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
13.	BMIM2B	Biomedical statistics	(BM0) Biomedical Engineering, Master Academic Studies
14.	BMIM2C	Multivariable analysis and complexity of physiological processes	(BM0) Biomedical Engineering, Master Academic Studies
15.	BMIM2D	Information theory in biosystems	(BM0) Biomedical Engineering, Master Academic Studies
16.	EK550	Speech Technologies	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
17.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	DE411	Signal Processing in Medical Research	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

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

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

Science, arts and professional qualifications

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

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

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

	ID	Course name	Study programme name, study type
1.	E23B	Fundamentals of Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E23B1	Computer Network Fundamentals 2	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	RT41	Intercomputer Communications and Computer Networks 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
4.	DRT05	Selected Chapters of Computer Communications	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	I. Basicevic, M. Popovic, "Use of SIP in the Development of Telecom Services - A Case Study", "The Journal of the Institute of Telecommunications Professionals", 2008, Vol. 2, Part 3, ISSN 1447-4739.
2.	I.Basicevic, M. Popovic, V. Kovacevic, "Use Of Publisher-Subscriber Design Pattern in Infrastructure of Distributed IDS Systems", ICNS 2007, Athens, Greece, June 19-23, 2007
3.	I.Basicevic, M. Popovic, D. Kukolj, "Comparison of SIP and H.323 Protocols", ICDT 2008, Bucharest, Romania, June 29- July 5, 2008.
4.	M. Popovic, I.Basicevic, V.Vrtunski, "A Task Tree Executor: New Runtime for Parallelized Legacy Software", ECBS 2009, San Francisco, USA, April 14-16, 2009.
5.	Bašičević I., Popović M.: Session Initiation Protocol, Encyclopedia of Internet technologies and applications, Editors Mario Freire and Manuela Pereira, IGI Global, Hershey, Pennsylvania 17033, USA, 2008, ISBN 978-1-59140-993-9
6.	Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849
7.	Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248
8.	Bašičević I., Kukolj D., Popović M.: On the Application of Fuzzy-based Flow Control Approach to High Altitude Platform Communications, DOI 10.1007/s10489-009-0190-y, Applied Intelligence, 2010, ISSN 1573-7497
9.	Popović M., Bašičević I.: Formal verification of embedded software based on software compliance properties and explicit use of time, International Journal of Computers, 2011, Vol. 5, No 3, pp. 423-430, ISSN 1998-4308
10.	Bašičević I., Popović M.: Operational profiles for Statistical Testing of Distribution Management System, INFOCOMP Journal of Computer Science, 2011, Vol. 10, No 2, pp. 8-16, ISSN 1807-4545

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

Quotation total :	10			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Blagojević M. Pavle
Academic title:	Senior Science Associate
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.10.2008
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:	2008	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematical Sciences
PhD thesis	2000	Faculty of Mathematics - Beograd	Mathematics
Magister thesis	1996	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1994	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pavle Blagojević, Benjamin Matschke, Günter Ziegler, Optimal bounds for a colorful Tverberg–Vrećica type problem, Advances in Mathematics 226 (2011) 5198-5215 http://dx.doi.org/10.1016/j.aim.2011.01.009
2.	Imre Bárány, Pavle Blagojević, András Szűch: Equipartitioning by a convex 3-fan, Advances in Mathematics 223 (2010) 579–593 http://dx.doi.org/10.1016/j.aim.2009.08.016
3.	Pavle V.M. Blagojević, Roman Karasev, Extensions of theorems of Rattray and Makeev, Topological Methods in Nonlinear Analysis 40 (2012) 189-215 http://www.tmna.ncu.pl/htmls/archives/vol-40-1.html
4.	Imre Bárány, Pavle V.M. Blagojević, Aleksandra S. Dimitrijević Blagojević, Functions, measures, and equipartitioning convex k-fans, Discrete and Computational Geometry, http://www.springerlink.com/content/a1u207t121477758/
5.	Pavle Blagojević, Günter Ziegler, Tetrahedra on deformed spheres and integral group cohomology, The Electronic Journal of Combinatorics, Volume 16 (2) (2009), #R16, 111, http://www.combinatorics.org/Volume_16/PDF/v16i2r16.pdf
6.	Pavle Blagojević, Günter Ziegler, The idealvalued index for a dihedral group action, and mass partition by two hyperplanes, Topology and its Applications 158 (2011) 1326–1351, http://dx.doi.org/10.1016/j.topol.2011.05.008
7.	Pavle V.M. Blagojević, Aleksandra S. Dimitrijević Blagojević, John McCleary, Equilateral triangles on a Jordan curve and a generalization of a theorem of Dold, Topology and its Application 156 (2008), 1623, http://dx.doi.org/10.1016/j.topol.2008.04.008
8.	Pavle Blagojević, Benjamin Matschke, Günter Ziegler, A tight colored Tverberg theorem for maps to manifolds, Topology and its Applications 158 (2011) 1445–1452, http://dx.doi.org/10.1016/j.topol.2011.05.016
9.	Pavle V.M. Blagojević, Aleksandra S. Dimitrijević Blagojević, John McCleary, Spectral sequences in combinatorial geometry Cheeses, inscribed sets, and Borsuk–Ulam type theorems, Topology and its Applications 158 (2011) 1920–1936, http://dx.doi.org/10.1016/j.topol.2011.06.035
10.	Pavle V.M. Blagojević, Aleksandra S. Dimitrijević Blagojević, Using Equivariant obstruction Theory in Combinatorial Geometry, Topology Appl. 154 (2007), no. 14, 2635–2655, http://dx.doi.org/10.1016/j.topol.2007.04.007

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

Quotation total :	30			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

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

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

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

	ID	Course name	Study programme name, study type
1.	EM436	Mechatronics	(M30) Energy and Process Engineering, Undergraduate Academic Studies
2.	H102	Fundamentals in Product Development	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1404	Mechatronics	(H00) Mechatronics, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	H308	Industrial Robotics	(H00) Mechatronics, Undergraduate Academic Studies
5.	I600	Industrial Robotics	(F10) Engineering Animation, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
6.	BM116A	Basics of medical robotics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	EM436A	Mechatronics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
8.	II1035	Industrial robotics	(I10) Industrial Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	H1503	Non Industrial Robotics and Automation in Buildings	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
10.	HDOK1S	Selected topics in industrial robotics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	HDOK2S	Selected topics in non-industrial robotics	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	NIT05	Advanced Technology for Material Handling	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
14.	AD0007	Interactive systems in architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
15.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
16.	H829	Advanced robotics	(I10) Industrial Engineering, Master Academic Studies (M40) Technical Mechanics and Technical Design, Master Academic Studies
17.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
18.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

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

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

Representative refferences (minimum 5, not more than 10)

1.	M. Vukobratović, V. Potkonjak, K. Babković, B. Borovac, Simulation model of general human and humanoid motion, Multibody System Dynamics, Volume 17, Number 1, (February, 2007), pp. 71-96 (ISSN 1384-5640 (Print) 1573-272X (Online))
2.	Vukobratović M., Borovac B., Potkonjak V., Towards a Unified Understanding of Basic Notions and Terms in Humanoid Robotics, Robotica (2007) Vol. 25, pp. 87-101
3.	Vukobratović M., Borovac B., Potkonjak V., ZMP: A Review of Some Basic Misunder-standings, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 153-176
4.	V. Potkonjak, M. Vukobratović, K. Babković, B. Borovac, General Model of Dynamics of Human and Humanoid Motion: Feasibility, Potentials and Verification, Int. Jour. of Humanoid Robotics, Vol. 3, No. 2 (2006), pp. 21-48
5.	Vukobratović M., Borovac B., Babković K., "Contribution to the Study of Anthropomorphism of Humanoid Robots", Int. Jour. of Humanoid Robotics, Vol. 2, No. 3 (2005), pp. 361-387
6.	Vukobratović M., Borovac B., Note on the Article "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 2, No.2, June 2005, pp. 225-227
7.	Vukobratović M., Borovac B., "Zero-Moment Point- Thirty Five Years of its Life", Int. Jour. of Humanoid Robotics, Vol. 1, No.1, March 2004, pp. 157-173
8.	M. Vukobratović, D. Andrić, B. Borovac, “How to Achieve Various Gait Patterns from Single Nominal “, International Journal of Advanced Robotic Systems, Vol. 1., No. 2, Page 99-108, 2004
9.	L. Juhas, A. Vujanić, N. Adamović, L. Nagy, B. Borovac "A Platform for Micro-Positioning Based on Piezo-Legs", The Journal of Mechatronics, Vol. 11, (2001), pp.869-897
10.	M. Vukobratović, D. Andrić, B. Borovac, “Humanoid Robot Motion in Unstructured Environment - Generation of Various Gait Patterns from a Single Nominal “, Cutting Edge Robotics, Edited by V. Kordic, A. Lazanica, M. Merdan, Published by pIV pro literatur Ver-lag Robert Mayer-Scholz, © 2005 Advanced Robotic Systems International, Page 577-598, 2005

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

Quotation total :	1998			
Total of SCI(SSCI) list papers :	35			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

Representative refferences (minimum 5, not more than 10)

4.	Lončarević I., Budinski-Petković Lj., Vrhovac S., Belić A.: Generalized random sequential adsorption of polydisperse mixtures on a one-dimensional lattice, Journal of Statistical Mechanics: Theory and Experiment, 2010, ISSN 1742-5468
5.	Lončarević I., Budinski-Petković Lj., Vrhovac Lj., Belić A.: Adsorption, desorption, and diffusion of k-mers on a one-dimensional lattice, Physical Review E, 2009, Vol. 80, No 2
6.	Budinski-Petković Lj., Vrhovac S., Lončarević I.: Random sequential adsorption of polydisperse mixtures on discrete substrates, Physical Review E, 2008, Vol. 78, No 061603, pp. 1-7
7.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Simulation study of random sequential adsorption of mixtures on a triangular lattice , The European Physical Journal E, 2007, Vol. 24, pp. 19-26, ISSN 1292-8941
8.	Lončarević I., Budinski-Petković Lj., Vrhovac S.: Reversible random sequential adsorption of mixtures on a triangular lattice, Physical Review E, 2007, Vol. 76, No 031104, pp. 1-9
9.	Arsenović D., Vrhovac S., Jakšić Z., Budinski-Petković Lj., Belić A.: Simulation study of granular compaction dynamics under vertical tapping, Physical Review E, 2006, Vol. 74
10.	Lj. Budinski-Petković and S. B. Vrhovac: Memory effects in vibrated granular systems: Response properties in the generalized random sequential adsorption model, The European Physical Journal E, 2005, Vol. 16, pp. 89-96, ISSN 1292-8941

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

Quotation total :	75			
Total of SCI(SSCI) list papers :	30			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Dejan Vukobratovic, Cedomir Stefanovic, Vladimir Crnojevic, Francesco Chiti, Romano Fantacci: "Rateless Packet Approach for Data Gathering in Wireless Sensor Networks", IEEE Journal on Selected Areas in Communications, Vol. 28, No. 7, pp. 1169-1179, September 2010.
2.	Petrovic, N.I.; Crnojevic, V.: Universal Impulse Noise Filter Based on Genetic Programming, IEEE Transactions on Image Processing, 2008, Vol. 17, No. 7, str. 1109- 1120, ISSN 1057-7149
3.	D. Culibrk, M. Mirkovic, V.Zlokolica, M. Pokric, V. crnojevic, D. Kukolj, "Salient Motion Features for Video Quality Assessment", IEEE Trans. on Image Processing, Volume: 20 Issue:4, pp(s): 948 - 958, ISSN: 1057-7149
4.	Cedomir Stefanovic, Dejan Vukobratovic, Francesco Chiti, Lorenzo Niccolai, Vladimir Crnojevic, Romano Fantacci: "Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes", IEEE Journal on Selected Areas in Communications, Vol. 29, No. 1, pp. 94-102, January 2011.
5.	Vladimir Crnojević, Nemanja Petrović, „Impulse Noise Filtering Using Robust Pixel-Wise S-estimate of Variance“, EURASIP Journal on Advances in Signal Processing, vol. 2010, Article ID 830702, 10 pages, 2010,
6.	V. Crnojević, V. Šenk, Ž. Trpovski, “Advanced Impulse Detection Based on Pixel-Wise MAD”, IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593. Crnojević, V. Šenk, Ž. Trpovski, “Advanced Impulse Detection Based on Pixel-Wise MAD”, IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593.
7.	B. Antić, V. Crnojević, „Joint Domain-Range Modeling of Dynamic Scenes with Adaptive Kernel Bandwidth“, pp.777-788, LNCS 4678, Springer-Verlag, Berlin Heidelberg 2007.
8.	N. Petrović, V. Crnojević, „Evolutionary Tree-Structured Filter for Impulse Noise Removal“, pp.103-113, LNCS 4179, Springer-Verlag, Berlin Heidelberg 2006.
9.	N. Petrović, V. Crnojević, „Impulse Noise Detection Based on Robust Statistics and Genetic Programming“, pp.643-649, LNCS 3708, Springer-Verlag, Berlin Heidelberg 2005.
10.	V. Crnojević,„Impulse Noise Filter With Adaptive Mad-Based Threshold“, International Conference on Image Processing, Genoa, Italy, 11-14. September, 2005.

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

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

Science, arts and professional qualifications

Name and last name:	Crvenković Đ. Siniša
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.01.2000
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1992	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1981	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1979	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	DOM44	Formal Languages Theory and Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	S.Crvenkovic, I.Dolinka and V.Tasic, A locally finite variety of rings with an undecidable equational theory, Quarterly Journal of Mathematics (Oxford) 57 (2006), 297-307.
2.	S.Crvenkovic, V.Tasic, Decidability of semigroup identities in soluble groups, Journal of Group Theory 5 (2002), 107-118.
3.	S.Crvenkovic, I.Dolinka and Z.Esik, On equations for union-free regular languages, Information and Computation 164 (2001), 152-172.
4.	S.Crvenkovic, I.Dolinka, On axioms for commutative regular equations without addition, Theoretical Computer Science 289 (2002), 531-551.
5.	S.Crvenkovic, I.Dolinka and N.Ruskuc, The Berman conjecture is true for finite surjective semigroups and their inflations, Semigroup Forum 62 (2001), 103-114.
6.	S.Crvenkovic I.Dolinka, A variety with undecidable equational theory and solvable word problem, International Journal of Algebra and Computation 8 (1998), 625-630.
7.	S.Crvenkovic, N.Ruskuc, Log-linear varieties of semigroups, Algebra Universalis 33 (1995), 370-374.
8.	S.Crvenkovic, M.Kunze, Actions of semilattices, Semigroup Forum 34 (1986), 131-156.
9.	S.Crvenkovic, I.Dolinka and N.Ruskuc, Finite semigroups with few term operations, Journal of Pure and Applied Algebra 157 (2001), 205-214.
10.	S.Crvenkovic, D.A.Romano and M.Vincic, A note on band anticongruence of ordered semigroups, International Journal of Algebra 2 (2008), 1-11.

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

Quotation total :	140			
Total of SCI(SSCI) list papers :	30			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Cvetićanin J. Livija
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 12.11.1975
Scientific or art field:	Machine Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	1992	Faculty of Technical Sciences - Novi Sad	Machine Mechanics
PhD thesis	1981	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Magister thesis	1977	Faculty of Mathematics - Beograd	Mechanics
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.	IAKI01	Selected Chapters in Kinematics	(F10) Engineering Animation, Undergraduate Academic Studies
2.	M103	Mechanics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
3.	M107	Mechanics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
4.	M201	Mechanics 3	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	M2411	Theory of Oscillation	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	DM405	Chaos in Dynamic Systems	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
7.	DM408	Nonlinerar Oscillations	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
8.	FDS143	Selected Chapters in Technical Mechanics	(F00) Graphic Engineering and Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. 1.L. Cveticanin, Dynamics of Machines with Variable Mass, Gordon and Breach Science Publishers, London, p.236, 1998.
2. L. Cveticanin, Particle separation from a four-particle-system, European Journal of Mechanics - A/Solids, Volume 26, Issue 2, March-April 2007, Pages 270-285.

Representative refferences (minimum 5, not more than 10)	
3.	L. Cveticanin, Homotopy-perturbation method for pure non-linear differential equation, Chaos, Solitons and Fractals, Vol.30, 2006, 1221-1230
4.	L. Cveticanin, Free vibration of a Jeffcott rotor with pure cubic non-linear elastic property of the shaft, Mechanism and Machine Theory, Vol.40, 2005, 1330-1344.
5.	L. Cveticanin, Approximate solution of a strongly non-linear complex differential equation, Journal of Sound and Vibration, Vol.284, No.1-2, 2005, pp.503-512.
6.	L. Cveticanin, Vibrations of the non-linear oscillator with quadratic non-linearity, Physica A, Vol.341, 2004, pp.123-135.
7.	M. Zukovic, L. Cveticanin, R. Maretic, Dynamics of the cutting mechanism with flexible support and non-ideal forcing, Mechanism and Machine Theory, Vol.58, 2012, 1-12.
8.	L. Cveticanin, M. KalamiYazdi, H. Askari, Z. Saadatnia, Vibration of a two-mass system with non-integer order nonlinear connection, Mechanics Research Communications 43 (2012) 22-28.
9.	L.Cveticanin, Oscillator with fraction order restoring force, Journal of Sound and Vibration, Vol.320, 2009, 1064-1077.
10.	L. Cveticanin, Pure odd-order oscillators with constant excitation, Journal of Sound and Vibration, Vol.330, 2011, 976-986.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	706			
Total of SCI(SSCI) list papers :	134			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Cvetković D. Ljiljana
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.10.1982
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1997	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1987	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1985	Faculty of Sciences - Novi Sad	Mathematics
Bachelor's thesis	1982	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.	D0M26	Application of Linear Algebra in Engineering	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Cvetković, Lj., Nedović, M., Special H-matrices and their Schur and diagonal-Schur complements. Appl. Math. Comput. 208 (2009) 225–230. <\eng>
2.	Cvetković, Lj., Kostić, V., Rauški, S., A new subclass of H-matrices. Appl. Math. Comput. 208 (2009) 206–210. <\eng>
3.	Varga, R.S., Cvetković, Lj., Kostić, V., Approximation of the minimal Geršgorin set of a square complex matrix. ETNA (Electronic Transactions on Numerical Analysis) 30 (2008), 398-405. <\eng>
4.	Bru, R., Cvetković, Lj., Kostić, V., Pedroche, F., Sums of Σ-strictly diagonally dominant matrices. Linear and Multilinear Algebra 58(1) (2010), 75–78. <\eng>
5.	Cvetković, Lj., Kostić, V., Kovačević, M., Szulc, T., Further results on H-matrices and their Schur complements. Appl. Math. Comput. 198(2) (2008), 506-510. <\eng>
6.	Cvetković, Lj., Kostić, V., A note on the convergence of the AOR method. Appl. Math. Comput. 194/2 (2007), 394-399. <\eng>
7.	Cvetković, LJ., H-matrix theory vs. eigenvalue localization. Numerical Algorithms 42, 3-4 (2006), 229-245. <\eng>
8.	Cvetković, Lj., Kostić, V., Between Geršgorin and minimal Geršgorin sets, J. Comput. Appl. Math. 196/2 (2006), 452-458 <\eng>
9.	Cvetković, Lj., Kostić, V., New criteria for identifying H-matrices, J. Comput. Appl. Math. 180/2 (2005), 265-278. <\eng>
10.	Cvetković, Lj., Kostić, V., Varga, R.S., A new Geršgorin-type eigenvalue inclusion set. ETNA (Electronic Transactions on Numerical Analysis) 18 (2004), 73-80. <\eng>

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

Quotation total :	90			
Total of SCI(SSCI) list papers :	40			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Ćirović S. Goran
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Organization, Construction Technology and Management

Academic carieer	Year	Institution	Field
Academic title election:	2009		Organization, Construction Technology and Management
PhD thesis	1994	Faculty of Civil Engineering - Beograd	Organization, Construction Technology and Management
Magister thesis	1987	Faculty of Civil Engineering - Beograd	Organization, Construction Technology and Management
Bachelor's thesis	1982	Faculty of Civil Engineering - Beograd	Organization, Construction Technology and Management

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

	ID	Course name	Study programme name, study type
1.	GG519	Building Management	(G00) Civil Engineering, Master Academic Studies
2.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
3.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
4.	SDGI3A	Selected topics in the valuation of buildings	(GI0) Geodesy and Geomatics, Specialised Academic Studies
5.	SDGI4A	Selected chapters of Land Management	(GI0) Geodesy and Geomatics, Specialised Academic Studies
6.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
7.	GD021	Selected Chapters in Process Modelling in Construction	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ćirović, G., editor in chief, International congress Sport Facilities / Standardizations and Trends SPOFA 2011, University of Belgrade, Faculty of Sport and Physical and Education Serbia, ISBN: 9788680855774 Belgrade 2011, pp. 195.
2.	Ćirović, G., editor in chief, International congress Sport Facilities / Curent Position and Perspectives SPOFA 2009, University of Belgrade, Faculty of Sport and Physical and Education Serbia, ISBN: 9788680255576 Belgrade, 2009, pp. 215.
3.	Ćirović,G.,Pamučar, D.:Decision support model for prioritizing railway level crossings for safety improvements: Application of the adaptive neuro-fuzzy system, Expert Systems with Applications, ISSN: 0957-4174 , http://dx.doi.org/10.1016/j.eswa.2012.10.041, In press
4.	Ćirović, G.,Radonjanin, N.,Trivunic, M., Nikolić, D., Optimization of uhpfrc beams subjected to bending using genetic algorithms, Journal of Civil Engineering and Management, to be appear 2013
5.	Ćirović G, Pamučar D., Đorović B., Sekulovic D., "Optimizing a multi-product and multi-supplier the economic production quantity model using genetic algorithm ", International Journal of the Physical Sciences, ISSN 1992 - 1950, vol 7(2), pp. 262-272, 2012 godina.
6.	Peško,I., Trivunić,M., Ćirović,G., Mučenski, V., A preliminary estimate of time and cost in urban road construction using neural networks, Tehnički vjesnik, to be appear 2013.
7.	Regodić, M., Sekulović, D., Ćirović, G., Tadić, V., Drobnjak, S., Comparative analysis of pixel-based and object-oriented classification by using multi-spectral spot 5 images, Technics Technologies Education Management - TTEM, Vol. 8., No. 1., 2013.
8.	Ćirović, G., Sekulović, D., Pamučar, D., Regodić, M., Application of fuzzy logic in the process of vehicle routing optimization in logistic support, Technics Technologies Education Management - TTEM, Vol. 8., No. 2., 2013.
9.	Pamučar D., Đorović B., Božanić D., Ćirović G., “Modification of the dynamic scale of marks in analytic hierarchy process (ahp) and analytic network approach (anp) through application of fuzzy approach", Scientific Research and Essays, ISSN 1992 - 2248, vol 7(1), pp. 24 - 37, 2012 godina.
10.	Bakrac, S., Anđelić, S., Ćirović G., Pamucar, D., Sekulovic D., "Using a method of decoding aerial photographs in analyzing the accuracy of determining the orientation of medieval churches in Serbia ", Metalurgia international, ISSN 582-2214, vol. 17 br. 11, str. 224-231, 2012.

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

Quotation total :	18			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Davidović M. Tatjana
Academic title:	Senior Science Associate
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	15.11.1993
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:	2012	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Computer Science
PhD thesis	2006	Faculty of Mathematics - Beograd	Computer Science
Magister thesis	1992	Faculty of Mathematics - Beograd	Computer Science
Bachelor's thesis	1987	Faculty of Mathematics - Beograd	Computer Science

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

	ID	Course name	Study programme name, study type
1.	D0M39	Optimization Methods and Mathematical Modelling	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DMUT02	Parallel Computing	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	DOM42	Metaheuristic Methods	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Davidović, T., Jakšić, T., Ramljak, D., Šelmić, M., Teodorović, D., MPI Parallelization Strategies for Bee Colony Optimization, OPTIMIZATION, Special Issue entitled "Advances in Discrete Optimization", dedicated to BALCOR 2011. DOI:10.1080/02331934.2012.749258
2.	Davidović, T., Šelmić, M., Teodorović, D., Ramljak, D., Bee Colony Optimization for Scheduling Independent Tasks to Identical Processors, Journal of Heuristics, 18(4), pp. 549-569, 2012. DOI:10.1007/s10732-012-9197-3
3.	Davidović, T., Ramljak, D., Šelmić, M., Teodorović, D., Bee Colony Optimization for the p-Center Problem, Computers and Operations Research, 38(10) pp. 1367--1376, 2011.
4.	Davidović, T., Crainic, T. G., Benchmark-Problem Instances for Static Task Scheduling of Task Graphs with Communication Delays on Homogeneous Multiprocessor Systems, Computers & OR, 33(8), pp. 2155-2177,2006.
5.	Davidović, T., Hansen, P., Mladenović, N., Permutation based genetic, tabu and variable neighborhood search heuristics for multiprocessor scheduling with communication delays, Asia-Pacific Journal of Operational Research, 22(3), pp. 297-326, 2005.
6.	Davidović, T., Crainic, T. G., MPI Parallelization of Variable Neighborhood Search, in Proc. EURO Mini Conference XXVIII dedicated to Variable Neighborhood Search, (EUROmC-XVIII-VNS), pp. 241-248, Herceg-Novi, Montenegro, Oct. 04-07, 2012.
7.	Davidović, T., "Exhaustive List-Scheduling Heuristic for Dense Task Graphs", YUJOR, Vol. 10, No. 1, pp. 123-136, 2000.
8.	Davidović, T., Liberti, L., Maculan, N., Mladenović, N., Towards the Optimal solution of the Multiprocessor Scheduling Problem with Communication Delays, in Proc. 3rd Multidisciplinary Int. Conf. on Scheduling: Theory and Application, Paris, France, Aug. 28-31, 128-135, 2007.
9.	Aringhieari, R., Bruglieri, M., Davidović, T., Nonato, M., A Variable Neighborood Search for solving a real life waste collection problem, XVIII Mini EURO Conference on VNS, 23-25 November 2005.
10.	Cvetković, D., Davidović, T., Ilić, A., Simić, S., Graphs for Small Multiprocessor Interconnection Networks, Applied Mathematics and Computation, 217(6), pp. 2468--2480, 2010.

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

Quotation total :	53			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	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 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	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.	0M503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M509	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0M511	Geometry	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML503	Combinatorics and Graph Theory	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML509	Applaid Abstract Algebra	(OM1) Mathematics in Engineering, Master Academic Studies
12.	0ML511	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

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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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 Stranhlenchemije, 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 Juornal 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, Czechoslovaka 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

Science, arts and professional qualifications

Name and last name:	Došenović -. Tatjana
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technology - Novi Sad
	05.01.1998
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technology - Novi Sad	Mathematical Sciences
PhD thesis	2002	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2000	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.	DOM59	Fixed point theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	T. Žikić-Došenović, Probabilistic contractor and nonlinear operator equations with set-valued operator in probabilistic normed spaces, Fixed Point Theory and Applications, Volume 7, 189-199, Nova Science Publishers, New York, 2007.
2.	Grbić, T., Medić, S., Štajner-Papuga, I., Došenović, T.: 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
3.	Tatjana Žikic-Došenovic, A multivalued generalization of Hick's C-contraction, Fuzzy Sets and Systems 151 (2005) 549-562
4.	S. Sedghi, N. Shobe, T. Žikic-Došenovic, A common fixed point in two complete fuzzy metric spaces, Chaos, Solitons and Fractals, Volume 42, Issue 4, 30 November 2009, Pages 2590-2596
5.	S. Sedghi, T. Žikic-Došenovic, N. Shobe, A common fixed point theorems in Menger probabilistic quasi-metric spaces, Fixed Point Theory and Applications, 2009, 2009:546273 doi:10.1155/2009/546273
6.	T. Došenović, A. Takači, D. Rakić and M. Brdar, A fixed point theorem for a special class of probabilistic contraction, Fixed Point Theory and Applications 2011, 2011:74 doi:10.1186/1687-1812-2011-74
7.	M. Brdar, M. Šćiban, A. Takači, T. Došenoović, Comparison of two and three parameters adsorption isotherm for Cr(VI) onto Kraft lignin, CHEMICAL ENGINEERING JOURNAL, (2012), vol. 183, pages 108-111
8.	Tatjana Žikić, On fixed point theorems of Gregori and Sapena, Fuzzy Sets and Systems 144 (2004) 421-429
9.	Takači Aleksandar A Žikić-Došenović Tatjana Zavargo Zoltan Z, Mathematical model of variable volume diafiltration with time dependent water adding , ENGINEERING COMPUTATIONS, (2009), vol. 26, 7-8, pages 857-867
10.	Žikić-Došenović Tatjana, A Common Fixed Point Theorem For Compatible Mappings In Fuzzy Metric Spaces Using Implicit Relation, ACTA MATHEMATICA HUNGARICA, (2009), vol. 125, No. 4, pages 357-368

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

Quotation total :	21			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	1	International :	0

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 carieer	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 (GI0) 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	(GI0) 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 (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
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 refferences (minimum 5, not more than 10)

Representative refferences (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., Tatomirović, M. (1999): Spregnute 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

Science, arts and professional qualifications

Name and last name:	Gajić . Ljiljana
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.10.1977
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Sciences - Novi Sad	Mathematical Sciences
PhD thesis	1982	Faculty of Sciences - Novi Sad	Mathematics
Magister thesis	1980	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.	DOM59	Fixed point theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Lj. Gajić, Z. Lozanov-Crvenković, , On Mappings with Contractive Iterate at a Point in Generalized Metric Spaces, Fixed Point Theory and Applications, Volume 2010, Article ID 458086, 16 pages, doi:10.1155/2010/458086
2.	Lj. Gajić, Z. Lozanov-Crvenković, A fixed point result for mappings with contractive iterate at a point in G-metric spaces, Filomat 25:2 (2011), 53-58 DOI: 10.2298/FIL1102053G
3.	Lj.Gajić,A topological degree of multivalued mappings of k-compact type,Nonlinear analysis &Application,vol.30, No1, pp53-59,1997
4.	Lj.Gajić,On the common fixed point for two sequences of self-mappings in Menger spaces,Acta.Math.Hungar.,67.(3) (1995),193-201.
5.	Lj.Gajić , V.Rakocević, Pair of non-self-mappings and common fixed points,Applied Mathematics and computation , (2007)
6.	Lj. Gajić, V.Rakočević, Quasicontractio nonself-mappings on convex metric spacesa and common fixed poin theorems, Fixed poin theory and applications,(2oo5),pp365-375.
7.	Lj.Gajić, B.Stanković, Someproperties of Wright's function,Publ. Math.,Belgrade,1976.
8.	Lj. Gajić, V. Rakočević, Quasi-contractions on a nonnormal cone metric space, Functional analysis and its application, 2012, 46 (1):61-65
9.	Lj. Gajić, |D. Ilić, V. Rakočević, On Ciric maps with a generalized contractive iterate at a and Fisher's quasicontraction in cone metric spaces, Applied Mathematics and Computation, 2010, 216, 2240-2247
10.	Lj. Gajić, M. Stojaković, On Ciric generalization of mappings with a contractive iterate at a point in G-metric spaces, Applied Mathematics and Computation 219 (2012) 435–441

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	2	International :	0

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 carieer	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	(GI0) 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.	0M506	Semantics of Programming Languages	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M507	Logic in Computer Science	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0M513	Introduction to Functional Programming Languages	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML506	Semantics of programming languages	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML507	Logic in computer science	(OM1) Mathematics in Engineering, Master Academic Studies
12.	0ML513	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	(GI0) Geodesy and Geomatics, Specialised Academic Studies

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 engledskom), 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 refferences (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

Total of SCI(SSCI) list papers :	17			
Current projects :	Domestic :	2	International :	4

Science, arts and professional qualifications

Name and last name:	Gladović V. Pavle
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.02.2000
Scientific or art field:	Transport System Technologies

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Transport System Technologies
PhD thesis	1994	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies
Magister thesis	1986	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies
Bachelor's thesis	1975	Faculty of Transport and Traffic Engineering - Beograd	Transport System Technologies

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

	ID	Course name	Study programme name, study type
1.	S0322	Road Traffic Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S0327	Organization of Road Traffic	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0I593	System of Public Transportation of Goods	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
4.	S0I591	Quality System in Road Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	LIM10	Transport Technologies I	(LIM) Logistic Engineering and Management, Master Academic Studies
6.	S0MJ1	Informacioni sistemi u drumskom transportu	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0MJ4	Planning of Public transport	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	SDI6	Optimization of the Goods Transportation Process	(OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
9.	SDI7	Passenger Transport Process Optimization	(S00) Traffic Engineering, Doctoral Academic Studies
10.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pavle Gladović, Tehnologija drumskog saobraćaja, FTN, Novi Sad 2003
2.	Pavle Gladović, Zbirka rešenih zadataka iz tehnologije drumskog transporta, Izdavačko preduzeće PC Program, d.o.o., Beograd 2000
3.	Pavle Gladović, Milan Simeunović, Sistemi javnog autotransporta robe, FTN, Novi Sad 2004
4.	Pavle Gladović, Tarifna politika u javnom gradskom putničkom prevozu, Izdavačko preduzeće PC Program, d.o.o., Beograd 1995
5.	Pavle Gladović, Stanislav Glumac, Srećko Žeželj, Srećko Nijemčević, Projektovanje, proizvodnja i eksploatacija autobusa, IKARBUS a.d. Beograd 2002
6.	Pavle Gladović, Nebojša Bojović, Milomir Veselinović, Nova logistika u oblasti javnog gradskog putničkog prevoza u jugoslovenskim gradovima, Tehnika 5, 1999. god. str. 218-223
7.	Pavle Gladović, Milorad Eskić, Milan Simeunović, Geometrijski model upravljanja procesom preventivnog održavanja fuzzy logikom, Tenika 4-5, 2003. god. str.7-17
8.	Pavle Gladović, Milica Miličić, Milan Simeunović, Kvalitet usluge u drumskom transportu, Tehnika 3, 2004, str. 113-120
9.	P. Gladović, N. J. Bojović, A methodology for introducing new types of tickets in an urban public transport network, International Journal of Transport Economics, Vol. XXVII-No. 3, str. 381-399, Roma october 2000
10.	Pavle Gladović, Mileta Goršič, Drago Tošić, Troškovni model linija sa kategorizacijom linija u sistemu javnog masovnog transporta putnika, Novi Sad 2007. god.

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

Quotation total :	3

Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

Representative refferences (minimum 5, not more than 10)

2.	Nedović, Lj., Ralević, N. M., Grbić, T.,: " Large deviation principle with generated pseudo measures", Fuzzy sets and systems, 2005, No. 105, 65-76
3.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Pseud-Riemann-Stieltjes integral ", Information Sciences 179, 2009, 2923-2933
4.	M. Štrboja, T. Grbić, I. Štajner-Papuga, G. Grujić, S. Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions, FSS, doi:10.101016/j.fss.2012.07.011
5.	Grbić, T., Pap, E., : "Generalization Of Portamnteau theorem with respect to the pseudo-weak convergence of random closed sets", Theory of Probability and its Applications, 2009, 97-115
6.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292
7.	T. Grbić, S. Medić, I. Štajner-Papuga, T. Došenović, Inequalities of Jensen and Chebyshev type for interval-valued measures based on pseudo-integrals. In: Intelligent Systems: Models and Applications, E. Pap, Ed., Springer-Verlag, pp 23-41, DOI:10.1007/978-3-642-33959-2_2
8.	Štajner-Papuga, I., Grbić, T., Dankova, M., "Riemann-Stieltjes type integral based on generated pseudo-operations", NS J. Mathe., Vol. 36, No. 2, 111-124
9.	Nedović, Lj., Grbić, T., "The pseudo-probability", Journal of Electrical Engineering, 2002, Vol. 53, No. 12/s, 27-30
10.	Mihailović, B., Nedović, T., Grbić, T., "The induced Sugeno integral-based operator w.r.t. bi-fuzzy measures", Journal of Electrical engineering, Vol. 54, No. 12/s, 76-79

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

Quotation total :	17			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Groznik F. Aleš
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Integral Transport and Logistics

Academic carieer	Year	Institution	Field
Academic title election:	2009		Integral Transport and Logistics
PhD thesis	2001	University of Ljubljana - Ljubljana	Economic Science
Magister thesis	1998	University of Ljubljana - Ljubljana	Economic Science
Magister thesis	1996	University of Ljubljana - Ljubljana	Electrical and Computer Engineering
Bachelor's thesis	1993	University of Ljubljana - Ljubljana	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.	LIM22	Logistic Controlling and Benchmarking	(LIM) Logistic Engineering and Management, Master Academic Studies
2.	DSIM9	E-logistics	(S00) Traffic Engineering, Doctoral Academic Studies
3.	DSN1	Logistics Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
4.	DSSL4	Logistics information systems	(S00) Traffic Engineering, Doctoral Academic Studies
5.	DSSO2	Logistic systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	A. Kovačić, A. Groznik i M. Ribič: Temelji elektronskega poslovanja; Ljubljana, Ekonomski fakultet, 2005, 305 str. ISBN: 961-240-067-9
2.	A. Kovačič, J. Jaklič, M.I. Štemberger, A. Groznik: Prenova in informatizacija poslovanja; Ljubljana, Ekonomski fakultet, 2004. 345 str. ISBN: 961-240-009-1
3.	P. Trkman, M.I. Štemberger, J. Jaklič i A. Groznik: Process approach to supply chain integration; Supply Chain Management, vol. 12. no. 2, pp. 116-128, 2007, ISSN 1359-8546
4.	A. Groznik, A. Kovačič i P. Trkman: The Role of Business Renovation and Informatization in E-government; Journal of Computer Information Systems, fall 2008
5.	A. Groznik: E-logistics: informatization of Slovenian transport logistics cluster. Management, Apr. 2005, vol. 10, no. 1, pp. 93-105. ISSN 1331-0194
6.	J. Jaklic, P. Trkman, A. Groznik, M.I. Stemberger: Enhancing lean supply chain maturity with business process management Zbornik radova-Fakultet organizacije i informatike, Varaždin, 2006, vol. 30, no. 2, str. 205-223, ISSN 0351-1804
7.	A. Kovačić, A. Groznik: Process renovation: the case of e-logistics . Tehnicki vjesnik-Fakultet za strojarstvo, Osijek, 2006, vol. 13, no. 3/4, str. 3-11. ISSN 1330-3651
8.	P. Trkman, A. Groznik: Measurement of supply chain integration benefits; Interdisciplinary journal of information, knowledge, and management, 2006, vol. 1, pp. 37-55. ISSN 1555-1229
9.	A. Groznik, E. Mujkić: Menedžment oskrbovalne verige v naftni industriji. Uporavna informatika, jul/avg/sep. 2005, vol. 13, no. 3, str. 146-152, ISSN 1318-1882
10.	A. Groznik: E-logistics: Informatization of Slovenian transport cluster. V: Building society throuhgh E-commerce, Santiago: University of Talca, 2004, 10 pp. CD ROM, ISBN 956-299-463-5

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

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

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1. Hajduković M., “Programski jezik CONCERT”, Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.

Representative refferences (minimum 5, not more than 10)

2.	Hajduković M., “Organizacija računara”, Pomoćni udžbenik, Fakultet tehničkih nauka, 1996.
3.	Hajduković M., Suvajdžin Z., “Uvod u međunarodni standard IEC 61131-3”, Pomoćni udžbenik, Fakultet tehničkih nauka, 2002.
4.	Hajduković M., “Operativni sistemi”, Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
5.	Hajduković M., “Arhitektura računara”, Osnovni udžbenik, Fakultet tehničkih nauka, 2004.
6.	Hajduković M. i ostali, “The active side principle approach to the client server protocol design”, YUJOR, vol. 6, no. 1, Belgrade, 1996., 121- 127
7.	Hajduković M. i ostali, “Uninterruptable and other regions”, YUJOR, vol. 8, no. 2, Belgrade, 1998., 323- 329
8.	Hajduković M. i ostali, “Communication models: an educational framework for parallel programming”, YUJOR, vol. 9, no. 1, Belgrade, 1999., 129- 139
9.	Hajduković M. između ostalih, “Character oriented program editing – habit or necessity?”, NSJOM, vol. 33, no. 1, Novi Sad, 2003., 53- 65
10.	Hajduković M. između ostalih, “A problem of program execution time measurement”, NSJOM, vol. 33, no. 1, Novi Sad, 2003., 67-73

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

Quotation total :	11			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	Popović Maneski L., Jorgovanović N., Ilić V., Došen S., Keller T., Popović B. M., Popović B. D.: Electrical stimulation for the suppression of pathological tremor, MED BIOL ENG COMPUT, 2011, Vol. 49, No 10, pp. 1187-1193, ISSN 0140-0118
2.	Popović-Bijelić A., Bijelić G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X
3.	Malešević N., Popović Maneski L., Ilić V., Jorgovanović N., Bijelić V., Keller T., Popović D.: A multi-pad electrode based functional electrical stimulation system for restoration of grasp, J NEUROENG REHABIL, 2012, Vol. 9, No 66, ISSN 1743-0003
4.	Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788
5.	Bojanić D., Petrovački-Balj B., Jorgovanović N., Ilić V.: Quantification of dynamic EMG patterns during gait in children with cerebral palsy, Journal of Neuroscience Methods, 2011, No 198, pp. 325-331, ISSN 0165-0270
6.	Krasnik R., Mikov A., Ilić V., Jorgovanović N., Demeši Drljan Č.: The use of Dynamic Electromyography in Gait Analysis, HealthMED, 2011, Vol. 5, No 4, pp. 888-893, ISSN 1840-2291
7.	Jorgovanović N., Došen S., Petrović R.: Novel Electronic Stimulator for Functional Electrical Therapy, Journal of Automatic Control, 2005, Vol. 15, No 5, pp. 27-30, UDK: 621.3-52
8.	Jorgovanović N.: Upravljanje funkcionalnom električnom stimulacijom za neurorehabilitaciju pokreta, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2003
9.	Jorgovanović N.: NEURON - neuronski računarski sistem, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 1996
10.	Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić I., Jorgovanović N., Tepić Ž., Bojanić D., Stanišić D., Ilić V., Pržulj Đ.: Geografski informacioni sistem za potrebe Ministarstva zaštite životne sredine, 2010

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

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

Science, arts and professional qualifications

Name and last name:	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 carieer	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

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 (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
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 refferences (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

Current projects :	Domestic :	5	International :	1

Science, arts and professional qualifications

Name and last name:	Katić A. Nenad
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Electroenergetics
PhD thesis	2002	Faculty of Technical Sciences - Novi Sad	Electroenergetics
Magister thesis	1991	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1982	Faculty of Technical Sciences - Novi Sad	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EOS35	Tržište električne energije	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	EE0406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	ESI006	Introduction to critical mission software for power grids	(ES0) Power Software Engineering, Undergraduate Academic Studies
4.	ESI012	Smart Grid Networks	(ES0) Power Software Engineering, Undergraduate Academic Studies
5.	EZ301	Cost-effective and energy-efficient electrical systems	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	DE107S	Decision-Making Optimization	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE312S	Power Market and Regulation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	DE405S	Smart Grid Networks	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE406S	Electric Power Industry in the Free Market Economy	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	DE508S	Power System Economics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
11.	EE406	Electric Power Quality	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	EE509	Market and Deregulation in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
13.	EE510	Economic Methods in Electric Power Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
14.	EE544	Renewable energy sources	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
15.	ZCM02	Clean technologies for electrical vehicles	(ZC0) Clean Energy Technologies, Master Academic Studies
16.	ZCM05	Electric Power Market	(ZC0) Clean Energy Technologies, Master Academic Studies
17.	ZCM08	Renewable and Distributed Electrical Energy Sources	(ZC0) Clean Energy Technologies, Master Academic Studies
18.	DE107	Decision-Making and Optimization	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
19.	DE312	Electricity Markets and Regulation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
20.	DE405	Smart Grid Networks	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
21.	DE406	Electric Power Industry in the Free Market Economy	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
22.	DE508	Power System Economics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Katić N., Savić M.: Autori: Nenad Katic, Milan Savic Naziv: Technical and economical optimisation of overhead power distribution line lightning protection , IEE Proc.-Gener.Transm.Distrib, 1998, No 3, pp. 239-244
2.	Katić V., Dumnić B., Katić N., Milićević D., Grabić S.: Potentials and Market Prospective of Wind Energy in Vojvodina, Thermal Science - International Scientific Journal, 2012, Vol. 16, ISSN 0354-9836, UDK: 621
3.	Strezoski V., Katić N., Janjić D.: Voltage Control Integrated in Distribution Management System, Electrical Power System Research, 2001, No 60, pp. 85-97
4.	Katić N.: Yugoslavia Develops a New Distribution Management System , Utility Automation, USA, a PennWell Publication, 1996, pp. 30-35
5.	Katić V., Dumnić B., Čorba Z., Milićević D., Katić N.: Potentials of Renewable Energy Market in Serbia – Case of Wind and Solar Energy, 8. IEEE International Conference on European Energy Market – EEM, Zagreb, 25-27 Maj, 2011, pp. 785-790, ISBN 978-1-61284-284-4
6.	Katić N., Marijanović V., Stefani I.: Smart Grid Solutions in Distribution Networks - Cost Benefit Analysis, 4. China International Conference on Electricity Distribution ICED, Nanjing, 12-16 Septembar, 2010, pp. 1-6
7.	Katić N.: PROFITABILITY OF SMART GRID SOLUTION APPLICATION IN DISTRIBUTION NETWORK, 7. Mediterranean Conference and Exibition on Power Generation, Transmission, Distribution and Energy Conversion, Agia Napa, 7-10 Novembar, 2010, pp. 1-6
8.	Katić N., Strezoski V., Popović D.: Business Benefits of DMS Software Application in Competitive Distribution, 17th International Conference on Electricity Distribution CIRED
9.	Katić N., Strezoski V., Popović D.: DMS Software Applications a Powerful Tool for the New Challenges in Deregulated Power Distribution, Balkan Power Conference
10.	Katić N., Strezoski V., Katić V.: Introducing the Management and ECTS in Electrical Power Engineering Education, ISIRR

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	16			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	3	International :	14

Science, arts and professional qualifications

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	Obradovic Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (2011). The maximal distance between imprecise point objects, Fuzzy Sets and Systems, Vol. 170 no. 1, pp. 76-94
2.	Obradovic Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Linear Fuzzy Space Based Road Lane Detection. Knowledge-Based Systems (rad objavljen u elektronskom obliku http://www.sciencedirect.com/science/article/pii/S0950705112000032)
3.	Kovačevic Aleksandar, Konjović Zora, Milosavljević Branko, Nenadić Goran (2012). Mining methodologies from NLP publications: A case study in automatic terminology recognition, Computer Speech And Language, Vol. 26 no. 2, pp. 105-126
4.	Gostojić Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (2012). Context-sensitive Access Control Model for Government Services. Journal of Organizational Computing and Electronic Commerce, Vol. 22 no. 2, pp. 184-213
5.	Sladić Goran, Milosavljević Branko, Surla Dušan, Konjović Zora (2012). Flexible Access Control Framework for MARC Records. Electronic Library (ISSN: 0264-0473), 30:5, pp. 623-652
6.	Savić Goran, Segedinac Milan, Konjović, Zora (2012).Automatic Generation of E-Courses Based on Explicit Representation of Instructional Design. Computer Science and Information Systems. Vol. 9 no. 2, pp. 839 – 869.
7.	Sladić Goran, Milosavljević Branko, Konjović Zora, Vidaković Milan (2011). Access Control Framework for XML Document Collections. Computer Science and Information Systems / ComSIS (ISSN: 1820-0214), 8:3, pp. 591-609
8.	Ivanovic Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compatible data model based on MARC 21 format, Electronic Library, Vol. 29 no. 1, pp. 52-70
9.	Kovacevic Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Konjovic Zora, Surla Dusan (2011). Automatic extraction of metadata from scientific publications for CRIS systems, Program-Electronic Library and Information Systems, Vol. 45 no. 4, pp. 376-396

Representative refferences (minimum 5, not more than 10)

10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Kosec L. Borut
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	1998	University of Ljubljana - Ljubljana	Metallurgical Engineering
Magister thesis	1993	University of Ljubljana - Ljubljana	Metallurgical Engineering
Bachelor's thesis	1989	University of Ljubljana - Ljubljana	Metallurgical Engineering

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

	ID	Course name	Study programme name, study type
1.	Z309A	Solid Waste Management	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	Z309A	Upravljanje čvrstim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z508	Specific Design Conditions in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
4.	ZR501	Hazardous Materials and Hazardous Waste	(Z01) Safety at Work, Master Academic Studies
5.	Z508	Specifični uslovi projektovanja u zaštiti životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
6.	GH508	Landfill desing and municipal waste treatmant systems	(G00) Civil Engineering, Master Academic Studies
7.	SZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Specialised Academic Studies
8.	SZSP09	Remediation of contaminated locations	(Z00) Environmental Engineering, Specialised Academic Studies
9.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies
10.	SZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(Z00) Environmental Engineering, Specialised Academic Studies
11.	ZR406A	System Regulations and EU Practice in Occupational Health and Safety	(Z01) Safety at Work, Master Academic Studies
12.	ZDH1	Modern Methods of Eco-design	(Z00) Environmental Engineering, Doctoral Academic Studies
13.	ZSP09	Remediation of Contaminated Sites	(Z00) Environmental Engineering, Doctoral Academic Studies
14.	ZSP18	Modern Scientific Approaches in Product Life Cycle Assessment (LCA)	(Z00) Environmental Engineering, Doctoral Academic Studies
15.	ZSP20	Systemic Regulation of Environment	(G00) Civil Engineering, Doctoral Academic Studies
16.	ZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Nagode, A., Klančnik, G., Schwarczova, H., Kosec, B., Gojić, M., Kosec, L.: Analyses of defects on the surface of hot plates for an electric stove, Engineering Failure Analysis 23, pp. 82-89, 2012, ISSN 1350-6307.
2.	Agarski, B., Budak, I., Kosec, B., Hodolic, J.: An Approach to Multi-criteria Environmental Evaluation with Multiple Weight Assignment, Environmental Modeling and Assessment 17 (3), pp. 255-266, 2012, ISSN 1420-2026.
3.	Antić, A., Petrović, P.B., Zeljković, M., Kosec, B., Hodolič, J.: The influence of tool wear on the chip-forming mechanism and tool vibrations, Materials and Technology 46 (3), pp. 279-285, 2012, ISSN 1580-2949.
4.	Klobčar, D., Kosec, L., Kosec, B., Tušek, J.: Thermo fatigue cracking of die casting dies, Engineering Failure Analysis 20, pp. 43-53, 2012, ISSN 1350-6307.
5.	Kosec, B., Karpe, B., Nagode, A., Budak, I., Ličen, M., Dordević, M., Kosec, G.: Efficiency and quality of inductive heating and quenching of planetary shafts, Metalurgija 51 (1) , pp. 71-74, 2012, ISSN 0543-5846.

Representative refferences (minimum 5, not more than 10)

6.	Jevremovic, D., Puskar, T., Kosec, B., Vukelic, D., Budak, I., Aleksandrovic, S., Egbeer, D., Williams, R.: The analysis of the mechanical properties of F75 Co-Cr alloy for use in selective laser melting (SLM) manufacturing of removable partial dentures (RPD), Metalurgija 51 (2) , pp. 171-174, 2012, ISSN 0543-5846.
7.	Kores, S., Vončina, M., Kosec, B., Medved, J.: Formation of ALFeSi phase in ALSi12 alloy with Ce addition, Metalurgija 51 (2) , pp. 216-220, 2012, ISSN 0543-5846.
8.	Česnik, D., Bratuš, V., Kosec, B., Bizjak, M.: Distortion of ring type parts during fine-blanking, Metalurgija 51 (2) , pp. 157-160, 2012, ISSN 0543-5846.
9.	Gojić, M., Nagode, A., Kosec, B., KoŽuh, S., Šavli, Š., Holjevac-Grgurić, T., Kosec, L.: Failure of steel pipes for hot air supply, Engineering Failure Analysis 18 (8) , pp. 2330-2335, 2011, ISSN 1350-6307.
10.	Kovačević, D., Budak, I., Antić, A., Kosec, B.: Special finite elements: Theoretical background and application, Tehnicki Vjesnik - Technical Gazette, 18 (4) , pp. 649-655, 2011, ISSN 1330-3651.

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

Quotation total :	93			
Total of SCI(SSCI) list papers :	39			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Kostić I. Svetozar
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.10.1992
Scientific or art field:	Traffic Systems

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Traffic Systems
PhD thesis	1989	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Magister thesis	1983	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering
Bachelor's thesis	1973	Faculty of Transport and Traffic Engineering - Beograd	Traffic Engineering

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

	ID	Course name	Study programme name, study type
1.	S0433	Traffic Accidents Expertise	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
2.	S0435	Parking and Public Parking Garages	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0438	Traffic Safety and Control Methods	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S0440	Traffic Terminal Servers	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
5.	S0I53Ž	Rail Transport Safety	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0MI4S	Road infrastructure and road safety in urban areas	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	DSSK6S	Suistainable safe road design	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Saobracajna tehnika I - Tehnika bezbednosti i kontrole saobracaja, Udzbenik, FTN Univerziteta u Novom Sadu, 1998.
2.	Tehnika bezbednosti i kontrole saobracaja, Udzbenik, II izmenjeno i dopunj.izdanje, FTN u Novom Sadu, 2005.
3.	Brzina kao faktor bezbednosti drumskog saobracaja, Monografija, FTN u Novom Sadu i EP Komerc Beograd 1994.
4.	Saobracajno tehnicko vestacenje - osnovni pojmovi, definicije i merne jedinice, prirucnik, Savez inzenjera i tehnicara Srbije, Beograd 1996.
5.	Aplication of Marquard equations in vehicle crash expertise, "MOTAUTO 01", Proceeding Vol.II, Varna 2001.
6.	Tehnicko regulisanje saobracaja i problemi parkiranja u gradovima Srbije, Savetovanje o kontroli i upravljanju saobracaja, SDIT Beogad 1992.
7.	Visespratna garaza - dvostruka spirala-,zasticen patent, YU PAT-63/97, Savezni zavod za intelektualnu svojinu, Beograd 1997.
8.	Zahtevi strukturnih karakteristika automobila sa aspekta zaštite putnika prilikom sudara, XII Međunarodni skup, Motorna vozila i motori, Kragujevac 2002.
9.	Rekonstrukcije specifičnih sudara vozila primenom programskog paketa PC CRASH, Savetovanje na temu Saobraćajne nezgode, Zlatibor, 2007.
10.	Naučno stručni pristup formiranju nalaza i mišljenja veštaka", Savetovanje na temu Saobraćajne nezgode, Zlatibor, 2007.

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

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

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 carieer	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	(GI0) 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 - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
5.	F101	Mathematics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	GI107	Mathematical Analysis 1	(GI0) 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	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	0M501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML501	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.	D0M01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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,Convoluted C-cosine functions and convoluted C-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: Convoluted 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 Institute Mathematique
9.	M. Kostić: C-Distribution semigroups, Studia Math. 185 (2008), 201--217.
10.	M. Kostić: Convoluted 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

Science, arts and professional qualifications

Name and last name:	Kostić R. Vladimir
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad 09.06.2004
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Sciences - Novi Sad	Mathematical Sciences
PhD thesis	2012	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2009	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	2003	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.	D0M26	Application of Linear Algebra in Engineering	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Cvetković Lj., Kostić V., Varga R.: Localization of Generalized Eigenvalues by Cartesian Ovals, Numerical Linear Algebra with Applications, 2012, Vol. 19, No 4, pp. 728-741, ISSN 1099-1506
2.	Cvetković Lj., Kostić V.: Application of generalized diagonal dominance in wireless sensor network optimization problems, Applied Mathematics and Computation, 2012, Vol. 218, No 9, pp. 4798-4805, ISSN 0096-3003
3.	Cvetković Lj., Kostić V., Doroslovački K.: Max-norm bounds for the inverse of S-Nekrasov matrices, Applied Mathematics and Computation, 2012, Vol. 218, No 18, pp. 9498-9503, ISSN 0096-3003
4.	Cvetković Lj., Bru R., Kostić V., Pedroche F.: A simple generalization of Gersgorin's theorem , Advances in Computational Mathematics, 2011, Vol. 35, pp. 271-280, ISSN 1019-7168, 1572-9044
5.	Cvetković Lj., Kostić V., Pena J.: Eigenvalue localization refinements related to positivity, SIAM J MATRIX ANAL A, 2011, Vol. 32, No 3, pp. 771-784, ISSN 0895-4798
6.	Cvetković Lj., Kostić V., Rauški S.: A new subclass of H-matrices, Appl. Math. Comput., 2009, No 208, pp. 206-210, ISSN 0096-3003
7.	Kostić V., Cvetković Lj., Varga R.: Geršgorin-type localizations of generalized eigenvalues, Numerical Linear Algebra with Applications, 2009, Vol. 16, No 11-12, pp. 883-898, ISSN 1099-1506
8.	Cvetković Lj., Rafeal B., Kostić V., Francisco P.: A simple generalization of Gersgorin's theorem. DOI 10.1007/s10444-009-9143-6, Advances in Computational Mathematics, 2009, ISSN 1019-7168, 1572-9044
9.	Cvetković Lj., Kostić V., Varga R.: Autori: Kostić, V., Cvetković, L., Varga, R.S. Naziv: Geršgorin-type localizations of generalized eigenvalues Naziv časopisa: Numerical Linear Algebra with Applications , Numerical Linear Algebra with Applications, 2009, Vol. 16, No 11, ISSN 1099-1506
10.	Rafael B., Cvetković Lj., Kostić V., Francisco P.: Sums of Σ-strictly diagonally dominant matrices., Linear and Multilinear Algebra, 2010, Vol. 58, No 1, pp. 75-78, ISSN 0308-1087

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

Quotation total :	111			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	2	International :	1

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 carieer	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.	0M501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0ML501	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 engledskom), 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

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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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 relatuions, 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 Jurnal 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

Science, arts and professional qualifications

Name and last name:	Kovačević D. Vladimir
Academic title:	Emeritus Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.06.2010
Scientific or art field:	Computer Engineering and Computer Communication

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Computer Engineering and Computer Communication
PhD thesis	1975	Military-Technical Faculty - Zagreb	Electrical and Computer Engineering
Magister thesis	1969	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1963	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.	RT58	Dedicated Computer Structure Design 2	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
2.	DRT02	Selected Topics in Computer System Architectures	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	V.Kovačević, M.Popović, M.Temerinac, N.Teslić, Arhitekture i algoritmi digitalnih signal procesora I, Fakultet tehničkih nauka u Novom Sadu, 2004.
2.	V. Kovačević, M. Popović, Sistemska programska podrška u realnom vremenu,Univerzitet u N. Sadu, Fakultet tehničkih nauka, 2002.
3.	M. Popović, V. Kovačević, An Approach to Internet-Based Virtual Call Center Implementation, Networking - ICN 2001, Part I, Lecture Notes in Computer Science,Series Editors: G. Goos, J. Hartmanis, J. van Leeuwen, Volume Editor: P. Lorenz,ISBN 3-540-42302-8 Springer-Verlag Berlin Heidelberg New York, 2001, pp 75-84.
4.	M. Popović, B. Atlagić, V. Kovačević, “Case study: a maintenance practice used with real-time telecommunication software”, Journal of Software Maintenance and Evolution:Research and Practice, John Wiley & Sons, Ltd., 2001, No. 13, pp 97-126.
5.	V.Kovačević, M.Popović, E.Šećerov, "Requirements for Operating Systems included in Virtual Machine System", System Science Journal, Vol.17, No.1, 1991.
6.	N. Teslić, V. Kovačević, M. Temerinac, "An Approach in Fast IC Development for Digital Video Processing based on FPGA-s", FACTA UNIVERSITATES, March 2000.
7.	Katona M., Pižurica A., Teslić N., Kovačević V., Philips W.: A Real-Time Wavelet-Domain Video Denoising Implementation in FPGA, EURASIP Journal on Embedded Systems, 2006, Vol. 2006, No Article ID 16035, pp. 1-12, ISSN 1687-3955, UDK: doi: 10.1155/ES/2006/16035
8.	Katona M., Pižurica A., Teslić N., Kovačević V., Philips W.: FPGA Design and Implementation of a Wavelet-Domain Video Denoising System, Lecture notes in computer science, 2005, Vol. 3708, No Oct 2005, pp. 650-657, ISSN 0302-9743, UDK: doi: 10.1155/ES/2006/16035_82
9.	Popović M., Kovačević V.: An Approach to Internet-Based Virtual Call Center Implementation , Lecture notes in computer science, 2001, pp. 75-84, ISSN 0302-9743
10.	Teslić N., Kovačević V., Temerinac M.: An Approach in Fast IC Development for Digital Video Processing Based on FPGA-s, FACTA UNIVERSITATES, 2000, Vol. 13, No 2, pp. 245-256, UDK: http://factaee.elfak.ni.ac.rs/fu2k02/fu10.pdf

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

Quotation total :	39			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Kovačević I. Dušan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	22.10.1985
Scientific or art field:	Theory of Construction

Academic carieer	Year	Institution	Field
Academic title election:	2011		Theory of Construction
PhD thesis	2001	Faculty of Civil Engineering - Beograd	Theory of Construction
Magister thesis	1992	Faculty of Technical Sciences - Novi Sad	Theory of Construction
Bachelor's thesis	1985	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.	GG29	Structural Stability and Dynamics	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG36	Theory on Plates and Shells	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG403	Structure Testing	(G00) Civil Engineering, Undergraduate Academic Studies
4.	MG402	Computer Aided Structural Modeling	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
5.	A502	Theory of structures and structural systems	(A00) Architecture, Undergraduate Academic Studies
6.	ASO15	Structural Systems in Scene Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
7.	ASO21	Structures, Materials and Technologies in Scene Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
8.	GG413	FEM modeling in structural analysis	(G00) Civil Engineering, Undergraduate Academic Studies
9.	GG506	Professional Practice	(G00) Civil Engineering, Master Academic Studies
10.	GG515	Finite Element Method	(G00) Civil Engineering, Master Academic Studies
11.	GD011	Selected Chapters in FEM	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	GD025	Selected topics in project management in construction	(G00) Civil Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	D. Kovačević, I. Budak, Aco Antić, A. Nagode, B. Kosec: FEM Modeling and Analysis in Prevention of the Waterway Dredger's Crane Serviceability Failure, Engineering Failure Analysis, ISSN: 1350-6307, DOI: 10.1016/j.engfailanal.2012.10.009, ELSEVIER
2.	D. Kovacevic, M. Sokovic, I. Budak, A. Antic, B. Kosec: Optimal Finite Elements Method (FEM) Model for The Jib Structure of a Waterway Dredger, Metallurgy Vol.51, No1, 113-116, ISSN0543-5846, METABK 51(1) 113-116 (2012), UDC-UDK 669.14.018.298:669.18=111
3.	D. Kovacevic, I. Budak, A. Antic, B Kosec: Special Finite Elements: Theoretical Background and Application, Technical Gazette, ISSN 1330-3651, No. 4 18 (2011) 649-655, UDC/UDK 519.61:624.046
4.	A. Nagode, G. Klančnik, M. Bizjak, D. Kovačević, B. Kosec, E. Dervarič, B. Zorc, L. Kosec: Structural and Thermodynamic Analysis of Whiskers on the Surface of Grey Cast Iron, Technical Gazette, ISSN 0543-5846, UDC – UDK 669.14.018.298:669.18=111, pp. 11-14, Zagreb, 2012.
5.	Antić,A., Kozak, D.,Kosec, B., Šimunović, G., Šarić, T., Kovačević, D., Čep, R: Influence of Tool Wear on the Mechanism of Chips Segmentation and Tool Vibration, Technical Gazette, ISSN 1330-3651, Zagreb, Article in Press, 2012.
6.	D. Kovacevic, S. Rankovic: FEM Modeling of Spatial Structural Systems in Evaluation of the Real Structural Performances, Facta Universitatis, Series: Architecture and Civil Engineering, ISSN 0354-4605, Nis, 2012.
7.	D. Kovacevic: Model for RC Frames Loaded by Seismic Forces, Invited paper , The 16th European Conference of Fracture (ECF16) - Mini-symposium: Integrity of Dynamical Systems, Proceedings, ISBN 978-1-4020-4971-2, pp. 779-786, Alexandropoulos, Greece, 2006.
8.	R. Folić & D. Kovačević: Link Finite Elements Application In FEM Structural Modeling, The 11th International Symposium of Mathematics and its Applications, Invited paper, Proceedings, pp12-23, Timişoara, 2006.
9.	D. Kovačević, Ž. Janjić & I. Džolev: Special Finite Elements - Why and Where? INDIS 2009, 5th International Scientific Conference, Invited paper, ISBN 978-86-7892-221-3, Novi Sad, pp. 63-72, 2009.
10.	Dušan Kovačević: MKE modeliranje u analizi konstrukcija, 336 str, Građevinska knjiga, Beograd, 2006.

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

Quotation total :	82
Total of SCI(SSCI) list papers :	5

Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Kovačević D. Aleksandar
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.07.2007
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Informatics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Informatics
Bachelor's thesis	2003	Faculty of Sciences - Novi Sad	Information-Communication Systems

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

	ID	Course name	Study programme name, study type
1.	E2K42	Knowledge Based Systems	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	ISIT03	Introduction to Programming	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
3.	ISIT27	Osnove softverskih arhitektura	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT29	XML Technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT47	E-learning tools and technologies	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	SES203	Machine Learning	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2503	Data Mining and Data Analysis Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	E2514	Biologicaly inspired computing	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
10.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
11.	E2524	Text Mining	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
12.	E2527	Business Intelligence	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	SEM005	Decision Support Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies
14.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI14	Selected Chapters in Machine Learning	(E20) Computing and Control Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)	
1.	Pretraživanje zvučnih zapisa
2.	Adaptivni sistem za pretraživanje zvučnih zapisa
3.	Kovačević, A., Milosavljević, B. “The Use of R-Trees for Content-Based Audio Retrieval”. In Proceedings of the 13th Scientific Conference on Industrial Systems, Herceg Novi, 2005. M63
4.	Kovačević A., Milosavljević, B., Konjović, Z. “Tjuniranje prostora osobina za pretraživanje zvučnih zapisa”. Zbornik radova YUInfo 2006, Kopaonik, Srbija, 2006. ISBN: 86-85525-01-2. M63
5.	Kovačević, A., Milosavljević, B., Konjović, Z., and Vidaković, M. 2010. "Adaptive content-based music retrieval system". Multimedia Tools and Applications, 47(3) (May. 2010), pp. 525-544. doi: http://dx.doi.org/10.1007/s11042-009-0336-2. ISSN: 1380-7501 (Print), 1573-7721 (Online). M23.
6.	Kovačević, A., Ivanović D., Milosavljević B., Konjović Z., Surla D., 2011. "Automatic extraction of metadata from scientific publications for CRIS systems" Program: Electronic library and information systems, 45(4), pp. 376 - 396. doi: http://dx.doi.org/10.1108/00330331111182094. ISSN: 0033-0337. M23
7.	Aleksandar Kovačević, Automatizovano izdvajanje semantike iz naučnih članaka u oblasti informatike, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2011.
8.	Majstorović D, Pele Z, Kovačević A, Čelanović N. "Computer Based Emulation of Power Electronics Hardware", In Proceedings of the First IEEE Eastern European Conference on the Engineering of Computer Based Systems, Novi Sad, Serbia, pages 56-64, 2009. ISBN: 978-0-7695-3759-7. M33
9.	Slivka, J. Kovačević, A., Konjović, Z., 2010. "Co-training based algorithm for datasets without the natural feature split." In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 279-284, 2010. ISBN: 978-1-4244-7395-3. M33
10.	Miljković, D., Gajić, Lj., Kovačević, A., Konjović, Z., 2010. The use of data mining for basketball matches outcomes prediction. In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 2010. 309-312. ISBN: 978-1-4244-7395-3. M33.

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	12			
Total of SCI(SSCI) list papers :	3			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Kovačić N. Ivana
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	21.05.1998
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	2002	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanics
Bachelor's thesis	1995	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.	F107	Technical Mechanics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
2.	GG14	Mechanics 2	(G00) Civil Engineering, Undergraduate Academic Studies
3.	M103	Mechanics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
4.	M107	Mechanics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	M201	Mechanics 3	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
6.	M44071	Noise, Vibration and Design	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
7.	DM401	Selected chapters in Analytical Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
8.	DM408	Nonlinerar Oscillations	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies
9.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
10.	FDS143	Selected Chapters in Technical Mechanics	(F00) Graphic Engineering and Design, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Metod polja u neholonomnoj mehanici i teoriji nelinearnih oscilacija, Fakultet tehničkih nauka, Novi Sad, 2002
2.	Samopobudne oscilacije u procesu rezanja, Fakultet tehničkih nauka, Novi Sad, 1999
3.	Zbirka rešenih zadataka iz Statike I, Edicija„Tehničke knjige-udžbenici” 127 , Fakultet tehničkih nauka, Novi Sad, 2006.
4.	Zbirka rešenih zadataka iz Statike II, Edicija„Tehničke knjige-udžbenici” 128 , Fakultet tehničkih nauka, Novi Sad, 2006.

Representative refferences (minimum 5, not more than 10)

5.	Cveticanin, L., Kovacic, I., Parametrically excited vibrations of the oscillator with strong cubic negative noin-linearity, Journal of Sound and Vibration, 2007, Vol. 304, No 1-2, pp. 201-212.
6.	Kovacic I., Adiabatic invariants of some time-dependent oscillators, Journal of Physics A: Mathematical and General, 2007, Vol. 40, No 3, pp. 455-470.
7.	Cveticanin, L., Kovacic, I., On the dynamics of bodies with continual mass variation, Journal of Applied Mechanics-TRANSACTIONS OF THE ASME, 2007, Vol. 74, pp. 810-815.
8.	Kovacic I., Adiabatic invariants of oscilltors with one degree of freedom, Journal of Sound and Vibration, 2007, Vol. 300, No 3-5, pp. 695-708.
9.	Kovacic I., Conservation laws of two coupled non-linear oscillators, International Journal of Non-Linear Mechanics, 2006, Vol. 41, No. 5, pp 751-760.
10.	Kovacic, I., Analysis of a weakly non-linear autonomous oscillator by means of the field method, International Journal of Nonlinear Mechanics, 2005, Vol. 40. No 5, pp 775-784.

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

Quotation total :	181			
Total of SCI(SSCI) list papers :	39			
Current projects :	Domestic :	2	International :	1

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 carieer	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 - Renewble 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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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 EXCITION-EXCITION AND EXCITION-PHONON INTERACTION ON CRYSTALS DIELECTIC 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)

Representative refferences (minimum 5, not more than 10)

4.	LJ. Budinski-Petković and U.Kozmidis-Luburić, "J AMING CONFIGURATIONS FOR IRREVERSIBLE DEPOSITION ON A SQUARE LATTICE", Psysica A 236, 211(1997)
5.	Lj. Budinski-Petković and U. Kozmidis-Luburić, "RANDOM SEQUENTIAL ADSORPTION ON A TRIANGULAR LATTICE", Psysical Review E 56, 6904(1997)
6.	V.Sajfert,B.S.Tošić,M.Marinković and U.F.KOZMIDIS-LUBURIĆ,"SURFACE DEFORMATION IN FILMS AND EXCITON CONCETRATION", 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.Ćirić,"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 :	1	International :	0

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 carieer	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

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 (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
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 refferences (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 salicyladehyde 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) mathylpyrazole, Journal of Thermal Analysis, 47, 879-886,
4.	S. R. Lukić, D. M. Petrović, A. F. Petrović: Effect of copper on conductivity of amorphous AsSeyIz, 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 Ge20As14SxSe52-xI14, 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

Science, arts and professional qualifications

Name and last name:	Krstanoski -. Nikola
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Traffic Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2008		Traffic Engineering
PhD thesis	1996	University of Pennsylvania - Tennessee	Traffic Engineering
Magister thesis	1992	University of Pennsylvania - Tennessee	Traffic Engineering
Bachelor's thesis	1983	Faculty of Technical Sciences Bitola - Bitola	Traffic Engineering

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

	ID	Course name	Study programme name, study type
1.	DSIM1	Traffic Planning	(S00) Traffic Engineering, Doctoral Academic Studies
2.	SDI6	Optimization of the Goods Transportation Process	(OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
3.	SDI7	Passenger Transport Process Optimization	(S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Krstanoski, N., “Negative Impacts of Busways and Bus Lane Conversions into High-Occupancy Vehicle Facilities”, TRANSPORTATION RESEARCH RECORD No.1496, Washington D.C., USA. p.75., 1995
2.	Krstanoski, N., “Urban Transportation Policies and Practices: Unites States and Its Peers”, TRANSPORTATION RESEARCH RECORD No.1576, Washington D.C., USA. str.132., 1997
3.	Krstanoski Nikola, “Public Urban Transport Planning”, textbook, Faculty for Technical Sciences”, Bitola 2003.
4.	Krstanoski, N., IMPACTS OF STOCHASTICITY IN RAPID TRANSIT LINE OPERATION ON ITS PERFORMANCE CHARACTERISTICS”, Third International Conference on Urban Transport and the Environment for the 21st century Acquasparta, Italy 1997, Proceedings, Computational Mechanics Publications, Editors L. Sucharev and G. Bidini, 1997, (pp.13-19).
5.	Krstanoski, N., HOW TO IMPROVE THE PUBLIC URBAN TRANSPORT, Scientific Conference “Skopje in the 21 Century”, The council of City of Skopje, November 1997.
6.	Krstanoski, N., URBAN PUBLIC TRANSPORT AND URBAN PLANNING, Ministry for Urbanism, Construction and Environment, Conference Proceedings “Perspectives and improvement of Physical and Spatial Planning”, Ohrid, March 1998.
7.	Krstanoski, N., URBAN PUBLIC TRANSPORT TROUGHOUT THE HISTORY: IN THE WORLD AND IN MACEDONIA, Conference “History of the Engineering in Macedonia” June 1998, Molika, Bitola.
8.	Krstanoski, N., TRANSPORT AND ENVIRONMENT: QUO VADIS MACEDONIA, Association of Transport Engineers of Macedonia and the Ministry for Transport and Teleccommunication, Conference Proceedings “Transport and Teleccommunications in the 21 Century”, Ohrid, 1999.
9.	Krstanoski, N., ANALYSIS OF TIME SERIES UNDER DISSRUPTED TRENDS: AN EXAMPLE OF FORECASTING THE RATE OF VEHICLE OWNERSHIP IN MACEDONIA, Association of Transport Engineers of Macedonia and the Ministry for Transport and Teleccommunication, Conference Proceedings “Transport and Teleccommunications in the 21 Century”, Ohrid, 1999.
10.	Krstanoski, N., WHAT CAN WE LEARN FROM THE BUS PUBLIC TRANSPORT DEREGULATION IN GREAT BRITAIN: LESSONS FOR MACEDONIA, Association of Transport Engineers of Macedonia and the Ministry for Transport and Teleccommunication, Conference Proceedings “Transport and Teleccommunications 2000 – Strategic development Guidelines” , Ohrid, 2000.

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

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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

Representative refferences (minimum 5, not more than 10)	
8.	Matić Dragan, Kulić Filip, Pineda-Sanchez Manuel, Kamenko Ilija: “Support vector machine classifier for diagnosis in electrical machines: Application to broken bar”, Expert Systems With Applications, vol.39 br.10, str. 8681-8689, 2012.
9.	Čongradac Velimir, Kulić Filip: “Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation”, Energy and Buildings, vol. 47, str. 651-658; April 2012.
10.	Ilić Slobodan; Vukmirović Srđan; Erdeljan Aleksandar; Kulić Filip: “Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, vol.16, br. , str. S215-S224, 2012

Summary data for teacher's scientific or art and professional activity:				
Quotation total :	32			
Total of SCI(SSCI) list papers :	12			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	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 refferences (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 tehnologies 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 Intnl. Conf. on Computational Intelligence, Man-Machine Systems and Cybernetics (CIMMACS), Peurto de la Cruz: Tenerife, Spain, 14-16 Decembar, 2009, pp. 98-103
9.	Malbaški D., Kupusinac A.: The Strong Object Invariant, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 1, pp. 9-15, ISSN 2217-8309
10.	Kupusinac A., Malbaški D.: Analysis of Loop Semantics using S-formulas, Technology Education Management Informatics - TEM, 2012, Vol. 1, No 2, pp. 72-77, ISSN 2217-8309

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	1			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Lozanov-Crvenković S. Zagorka
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.01.1900
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1999	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1989	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1983	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1979	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.	D0M27	StatisticsApplied in Engineering	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Lozanov-Crvenković, Z., Pilipović, S.,On Some Classes of Generalized Random Linear Functionals,J.Math.Anal.Appl., 129, (1988), 433-442
2.	Lozanov-Crvenković, Z., Pilipović, S.,Gaussian Generalized Random Processes on K{Mp} Spaces,.Math.Anal.Appl.,181(1994) 755-761
3.	Z.Lozanov Crvenković, D.Perišić, S. Pilipović, Colombeau generalized processes of the second order, Nonlinear Algebraic Analysis and Applications, Proceedings of the International Conference on Generalized Functions. CSP 149-163
4.	M.Budimčević, Z.Lozanov Crvenković, D.Perišić, Reprezentation theorems for tempered ultradistributions, Publications de l"Institut Mathematique, Nouvelle serie ,Tom 65(79), 1999, 142-160
5.	Z.Lozanov Crvenković, D. Perišić, Generalized Bochner-Schwartz theorem for tempered ultradistributions,Novi Sad Journal of Mathematics, Vol. 29, no. 1, 1999, 69-83
6.	Lozanov-Crvenković, Z., Pilipović, S.,Generalized Random Processes on the Zemanian Space A,Publicasion de L"Institute Mathematique,46 (60), (1989) 201-213.
7.	T. Djaković-Sekulić, N. Perišić-Janjić, C. Sârbu, Z. Lozanov-Crvenković, “Partial least-squares study of the effects of organic modifier and physicochemical properties on the retention of some thiazoles.“, J. Planar Chromatogr. 20:4 (2007) 251-257.
8.	Lj. Gajić, Z. Lozanov-Crvenković, On Mappings with Contractive Iterate at a Point in Generalized Metric Spaces, Fixed Point Theory and Applications, Volume 2010, Article ID 458086, 16 pages, doi:10.1155/2010/458086
9.	O. F. Barak, Z.B. Ovcin , Dj. G. Jakovljević , Z. Lozanov-Crvenković , D.A. Brodie, N, G. Grujić Heart rate recovery after submaximal exercise in four different recovery protocols in male athletes and non-athletes, Journal of Sports Science and Medicine (2011) 10, 369-375
10.	M. Budinčević, Z. Lozanov-Crvenković, D. Perišić, Representation theorems for tempered ultradistributions, Publications de l’Institut Mathematique, Nouvelle serie, Tome 65(79), 1999, 142-160

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

Quotation total :	12			
Total of SCI(SSCI) list papers :	11			
Current projects :	Domestic :	1	International :	0

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 refferences (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 tehnologies 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 Europian 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.

Representative refferences (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

Science, arts and professional qualifications

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Marković M. Zoran
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.01.1972
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1998	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematics
PhD thesis	1979	University of Pennsylvania - Tennessee	Mathematics
Magister thesis	1974	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1971	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	D0M11	Models of Computation	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DOM43	Computability Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	DOM44	Formal Languages Theory and Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies
4.	DOM47	Knowledge Representation and Automated Reasoning	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Miodrag Raskovic, Zoran Markovic, Zoran Ognjanovic: A logic with approximate conditional probabilities that can model default reasoning. Int. J. Approx. Reasoning 49(1): 52-66 (2008)
2.	Aleksandar Perovic, Zoran Ognjanovic, Miodrag Raskovic, Zoran Markovic: A Probabilistic Logic with Polynomial Weight Formulas. FoIKS 2008, Lecture Notes in Computer Science 4932/2008: 239-252
3.	Aleksandar Perovic, Zoran Ognjanovic, Miodrag Raskovic, Zoran Markovic: How to Restore Compactness into Probabilistic Logics?. JELIA 2008, Lecture Notes in Computer Science 5293/2008: 338-348
4.	Nebojsa Ikodinovic, Miodrag Raskovic, Zoran Markovic, Zoran Ognjanovic: Measure Logic. ECSQARU 2007, Lecture Notes in Computer Science 4724/2007: 128-138
5.	Miodrag Raskovic, Zoran Ognjanovic, Zoran Markovic: A Logic with Conditional Probabilities. JELIA 2004, Lecture Notes in Computer Science 3229/2004: 226-238
6.	Miodrag Raskovic, Zoran Ognjanovic, Zoran Markovic: A probabilistic approach to default reasoning. NMR 2004: 335-341
7.	Zoran Markovic, Zoran Ognjanovic, Miodrag Raskovic: A probabilistic extension of intuitionistic logic. Math. Log. Q. 49(4): 415-424 (2003)
8.	Svetlana Markovic, Zoran Markovic, Johan P. Engelbrecht, Robert I. McCrindle: Spectral Moments of Polycyclic Aromatic Hydrocarbons. Solution of a Kinetic Problem. Journal of Chemical Information and Computer Sciences 42(1): 82-86 (2002)
9.	Svetlana Markovic, Zoran Markovic, Robert I. McCrindle: Spectral Moments of Phenylenes. Journal of Chemical Information and Computer Sciences 41(1): 112-119 (2001)
10.	Zoran Markovic: On the Structure of Kripke Models of Heyting Arithmetic. Mathematical Logic Quaterly 39: 531-538 (1993)

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

Quotation total :	127			
Total of SCI(SSCI) list papers :	21			
Current projects :	Domestic :	2	International :	3

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 carieer	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 biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z476	Energija i obnovljivi izvori energije u ruralnim oblastima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	H2405	IT in Biosystems	(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies
10.	M2651	Tractors	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	M2652	Agricultural machinery for renewable energy sources	(M22) Mechanization and Construction Engineering, Master Academic Studies
12.	Z477	Sustainable Agriculture Engineering	(Z20) Environmental Engineering, Master Academic Studies
13.	Z478A	Information technology support sustainable biosystems	(Z20) Environmental Engineering, Master Academic Studies
14.	Z477	Inženjerstvo održive poljoprivrede(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	Z478	Informaciono-tehnološka podrška održivom razvoju biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	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 enery 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

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 refferences (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

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 carieer	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 refferences (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 :	1	International :	2

Science, arts and professional qualifications

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

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

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

	ID	Course name	Study programme name, study type
1.	E135	Probability, Statistics and Stochastic Processes	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	E213	Discrete Mathematics and Linear Algebra	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	E224A	Probability and Stochastic Processes	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
5.	EOS07	Mathematics 2	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
6.	M102	Mathematics 1	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
7.	E102	Mathematical Analysis 1	(ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
8.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	E102A	Mathematical Analysis 1	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies

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 refferences (minimum 5, not more than 10)

1.	E. Pap, B. Mihailović: A representatation of a comonotone-v-additive and monotone functional by two Sugeno integrals, Fuzzy Sets and Systems 155, (2005) 77-88
2.	B. Mihailović, E. Pap: Sugeno integral based on absolutely monotone real set functions, Fuzzy Sets and Systems, Vol 161, Issue 22, (2010) 2857-2869
3.	B. Mihailović, E. Pap: Asymmetric integral as a limit of generated Choquet integrals based on absolutely monotone real set functions, Fuzzy Sets and Systems 181, (2011) 39-49.
4.	B. Mihailović, E. Pap: Asymmetric general Choquet integrals, Acta Polytechnica Hungarica, Volume 6, Issue Number 1, (2009) 161-173.
5.	Kalina M., Manzi M., Mihailović B.: Choquet integrals and T-supermodularity, E. Pap (Ed.): Intelligent Systems: Models and Applications, TIEI 3, DOI: 10.1007/978-3-642-33959-2 4 c Springer-Verlag Berlin Heidelberg , (2013) 61-75.

Representative refferences (minimum 5, not more than 10)

6.	B. Mihailović, Lj. Nedović, T. Grbić : The induced Sugeno integral-based operator w.r.t bi-fuzzy measures, Journal of Electrical Engineering, Vol.54, No. 12/s, (2003) 76-79.
7.	B. Mihailović, E. Pap: Non-monotonic set functions and general fuzzy integrals, Proceedings of SISY 2008, Subotica, (2008) 371-374.
8.	B. Mihailović: On the class of symmetric S-separable aggregation functions Proceedings of AGOP 2007, Ghent, Belgium, (2007) 187-191.
9.	B. Mihailović, E. Pap: Decomposable signed fuzzy measures, Proceedings of EUSFLAT 2007, Ostrava, Czech Republic, (2007) 265-269.
10.	B. Mihailović, M. Manzi: On the asymmetric Shilket-like integral, Proceedings of AGOP2011, Benevento, Italy, (2011) 73-77.

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

Quotation total :	10			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Mihaljević J. Miodrag
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.01.1900
Scientific or art field:	Computer Science

Academic carieer	Year	Institution	Field
Academic title election:	1999	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Computer Science
PhD thesis	1990	Military-Technical Faculty - Zagreb	Mathematical Sciences
Magister thesis	1981	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1979	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.	DMUT01	Fundamentals of Cryptography	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DOM51	Topics in Information Security and Information Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	M.J. Mihaljevic, S. Gangopadhyay, G. Paul and H. Imai, "Internal State Recovery of Keystream Generator LILI-128 Based on a Novel Weakness of the Employed Boolean Function", Information Processing Letters, vol. 112, no. 21, pp. 805-810, November 2012.
2.	M.J. Mihaljevic, S. Gangopadhyay, G. Paul and H. Imai, "State Recovery of Grain-v1 Employing Normality Order of the Filter Function", IET Information Security, vol. 6, no. 2, pp. 55-64, June 2012.
3.	M.J. Mihaljevic, S. Gangopadhyay, G. Paul and H. Imai, "Generic Cryptographic Weakness of k-normal Boolean Functions in Certain Stream Ciphers and Cryptanalysis of Grain-128", Periodica Mathematica Hungarica, vol. 65, no. 2, pp. 205-227, Dec. 2012.
4.	United States Patent US 8023649: M.J. Mihaljevic and J. Abe Method and apparatus for cellular automata based generation of pseudorandom sequences with controllable period, September 2011.
5.	Japan Patent JP 4863283: M.J. Mihaljevic and H. Watanabe Authentication system using light-weight authentication protocol, November 2011.
6.	United States Patent US 7502941: L. Michael and M.J. Mihaljevic Wireless data communication method and apparatus for software download system, March 2009.
7.	M.J. Mihaljevic and H. Imai, "An approach for stream ciphers design based on joint computing over random and secret data", Computing, vol. 85, no. 1-2, pp. 153-168, June 2009.
8.	M. Fossorier, M. Mihaljevic and H. Imai, "Modeling Block ecoding Approaches for Fast Correlation Attack", IEEE Transactions on Information Theory, vol. 53, no. 12, pp. 4728-4737, Dec. 2007.
9.	M. Mihaljevic, "Generic framework for secure Yuan 2000 quantum encryption protocol employing the wire-tap channel approach'", Physical Review A, vol. 75, no. 5, pp. 052334-1-5, May 2007.
10.	M. Mihaljevic, M. Fossorier and H. Imai, "Security Evaluation of Certain Broadcast Encryption Schemes Employing a Generalized Time-Memory-Data Trade-Off", IEEE Communications Letters, vol. 11, no. 12, pp. 988-990, Dec. 2007.

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

Quotation total :	1500			
Total of SCI(SSCI) list papers :	87			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Mijajlović -. Žarko
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1993	Faculty of Mathematics - Beograd	Mathematics
PhD thesis	1977	Faculty of Mathematics - Beograd	Mathematics
Magister thesis	1972	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1971	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	D0M05	Semantics of Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DOM52	Selected Topics in Digitization of Cultural and Scientific Heritage	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ž. Mijajlović, N. Pejović, S. Šegan, G. Damljanović, On asymptotic solutions of Friedmann equations, Applied Mathematics and Computation, 2012.
2.	Ž. Mijajlović, D. Doder, A. Ilić-Stepić, Borel sets and countable models, Publications de l`Institut Mathematique, 90(104), 1-11, 2011.
3.	Ž. Mijajlović, B. Malešević, Differentially transcendental functions, Bulletin of the Belgian Mathematical Society-Simon Stevin, vol. 15, issue 2, 193-201, 2008. ISSN 1370-1444
4.	Ž. Mijajlović, B. Malešević, Analytical and differential - algebraic properties of Gamma function, Int. Journal of Applied Mathematics & Statistics, Vol.11, No. 7, 118-129, 2007. ISSN 0973-7545
5.	Ž. Mijajlović, N. Pejović, The Project ASV, Bulg. J. Phys. vol.34 no.s2 (2007), pp. 95-104
6.	Ž. Mijajlović, M. Milošević, A. Perović, Sums of like powers and some dense sets, Publications Math. Inst., 81(95), 45-52, 2007.
7.	Ž. Mijajlovic, N. Pejovic, S. Ninkovic, Nonstandard Representations of Processes in Dynamical Systems, Flows, Boundaries, Interactions , AIP Conf. Proc. vol. 934, 151-157, 2007.
8.	Ž. Mijajlović, M. Milošević, A. Perović, Ideal membership in signomial rings, Publikacije Elektrotehnickog fakulteta-serija: matematika, 18, 64-67, 2007.
9.	R. Djordjevic, N. Ikodinovic, Ž. Mijajlović, Completeness theorem for topological class models, Archive for mathematical logic, vol.46, no. 1, 1-8, 2007.
10.	Ž. Mijajlović, M. Milošević, A. Perović, Infinitesimals in Nonstandard Analysis versus Infinitesimals in p-Adic Fields, p-Adic Mathematical Physics, AIP Conf. Proc. vol. 826, 274-279, 2006.

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

Quotation total :	150			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	2	International :	2

Science, arts and professional qualifications

Name and last name:	Mladenović M. Nenad
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.10.2008
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1997	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematics
PhD thesis	1988	Faculty of Organizational Sciences - Beograd	Mathematics
Magister thesis	1982	Faculty of Organizational Sciences - Beograd	Mathematics
Bachelor's thesis	1976	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	DOM42	Metaheuristic Methods	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Pierre Hansen, Nenad Mladenovic: Variable Neighborhood Search Methods. Encyclopedia of Optimization 2009: 3975-3989
2.	S. Consoli, Ken Darby-Dowman, Nenad Mladenovic, Jose A. Moreno-Perez: Greedy Randomized Adaptive Search and Variable Neighbourhood Search for the minimum labelling spanning tree problem. European Journal of Operational Research 196(2): 440-449 (2009)
3.	Nenad Mladenovic, Milan Drazic, Vera Kovacevic-Vujcic, Mirjana Cangalovic: General variable neighborhood search for the continuous optimization. European Journal of Operational Research 191(3): 753-770 (2008)
4.	Brimberg J, Love R and Mladenovic N. Extension of the Weiszfeld procedure to a single facility minisum location model with mixed norms. Mathematical Methods of Operations Research, 68 (2008) DOI 10.1007/s00186-008-026-z.
5.	Milan Drazic, Carlile Lavor, Nelson Maculan, Nenad Mladenovic: A continuous variable neighborhood search heuristic for finding the three-dimensional structure of a molecule. European Journal of Operational Research 185(3): 1265-1273 (2008)
6.	Pierre Hansen, Nenad Mladenovic, Jose A. Moreno-Perez: Variable neighborhood search. European Journal of Operational Research 191(3): 593-595 (2008)
7.	Pierre Hansen, Ceyda Oguz, Nenad Mladenovic: Variable neighborhood search for minimum cost berth allocation. European Journal of Operational Research 191(3): 636-649 (2008)
8.	Jack Brimberg, Nenad Mladenovic, Dragan Urosevic: Local and variable neighborhood search for the k -cardinality subgraph problem. J. Heuristics 14(5): 501-517 (2008)
9.	Pierre Hansen, Nenad Mladenovic: Complement to a comparative analysis of heuristics for the p -median problem. Statistics and Computing 18(1): 41-46 (2008)
10.	Nenad Mladenovic, Frank Plastria, Dragan Urosevic: Formulation Space Search for Circle Packing Problems. SLS 2007: 212-216

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

Quotation total :	2286			
Total of SCI(SSCI) list papers :	72			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

Name and last name:	Nimrihter D. Miroslav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.06.1976
Scientific or art field:	Electroenergetics

Academic carieer	Year	Institution	Field
Academic title election:	2009		Electroenergetics
PhD thesis	1994	School of Electrical Engineering - Beograd	Electroenergetics
Magister thesis	1984	School of Electrical Engineering - Beograd	Electroenergetics
Bachelor's thesis	1975	School of Electrical Engineering - Beograd	Electroenergetics

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

	ID	Course name	Study programme name, study type
1.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EE409	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EE413	Power System Reliability	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EE309	Power Distribution Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ESI020	Data structures and algorithms in power systems	(ES0) Power Software Engineering, Undergraduate Academic Studies
6.	DE106S	Reliability of Power Systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
7.	DE112S	Non-deterministic Modelling	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
8.	EE560	Planiranje elektroenergetskih sistema	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EE409M	High Voltage Engineering	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	EM435A	Electronic Systems in Oil Industry	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EM437A	The application of electronic systems in clean and renewable energy	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	ESI022	Quality control and assurance of electric power software	(ES0) Power Software Engineering, Master Academic Studies
13.	ESI024	Applied algorithms in power systems	(ES0) Power Software Engineering, Master Academic Studies
14.	ESI025	Simulation of Power Greed critical mission systems	(ES0) Power Software Engineering, Master Academic Studies
15.	ESI027	Advanced cloud computing in power systems	(ES0) Power Software Engineering, Master Academic Studies
16.	ESI030	Distributed Software Architectures for Smart Energy Grids	(ES0) Power Software Engineering, Master Academic Studies
17.	ESI031	Business Intelligence and Data Warehouse Systems in Power Systems	(ES0) Power Software Engineering, Master Academic Studies
18.	ESI035	Computer graphic algorithms for smart grid systems	(ES0) Power Software Engineering, Master Academic Studies
19.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies
20.	DE106	Reliability of Power Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
21.	DE112	Non-deterministic Modelling	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Gušavac S., Nimrihter M., Gerić Lj.: ESTIMATION OF OVERHEAD LINE CONDITION, , Electric Power System Research, 2008, Vol. 78, pp. 566-583
2.	Desnica V., Živanov Lj., Aleksić S., Nimrihter M.: Comparative Characteristics of Thick-Film Integrated LC Filters, IEEE Transactions on Instrumentation and Measurement, 2002, Vol. 51, No 4, pp. 570-576, ISSN 0018-9456
3.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Meddium Voltage Cable Distribution Networks, Electric Power System Research, 1994, No 29, pp. 43-50, ISSN 0378-7796
4.	Popović D., Glamočić Lj., Nimrihter M.: The Optimal Automation Level of Medium Voltage Distribution Networks, International Journal of Electrical Power
5.	Nimrihter M.: Comparative Analysis of Security Concepts for Urban Medium Voltage Cable Distribution Networks, Electric Power Research, 1994, No 29, pp. 43-50
6.	Nimrihter M., Živanov M., Gušavac S.: FUEL CELLS – ECOLOGICAL COGENERATIVE ENERGY SOURCES, 9th INTERNATIONAL SYMPOSIUM INTERDISCIPLINARY REGIONAL RESEARCH – ISIRR 2007, , Novi Sad, 21-22 Jun, 2007
7.	*****Živanov M., Nimrihter M., Živanov Lj.: Energetska efikasnost sistema sa gorivnim ćelijama Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: UDC 621.311.29.001.5/.004:620.92
8.	*****Živanov M., Nimrihter M., Živanov Lj.: Efekti primene gorivnih ćelija Naziv skupa: Međunarodno savetovanje ENERGETIKA 2007 , UDK: 621.311.29.001.5/.004:620.92
9.	*****Nimrihter M., Gušavac S., Lukić J., Kuljić R.: Uticaj distribuiranih generatora na rizik u SN DEM, edukativni softver za potrebe CEFES magistarski studija Naziv skupa: 14th International Symposium on Power Electronics - Ee 2007 , UDK: 621.38; 620.9(082)
10.	*****Nimrihter M., Gušavac S., Lukić J.: Uticaj distribuiranih protočnih elektrana na rizik napajanja potrošača Naziv skupa: 14. International Symposium on Power Electronics-Ee2007 , UDK: 621.38; 620.9(082)

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

Quotation total :	22			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	3	International :	12

Science, arts and professional qualifications

Name and last name:	Novaković N. Branislava
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	05.12.1997
Scientific or art field:	Deformable Body Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Deformable Body Mechanics
PhD thesis	2006	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Deformable Body Mechanics
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Theory of Construction

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

	ID	Course name	Study programme name, study type
1.	GG15	Strength of Materials	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG410	Selected Chapters in the Theory of Elasticity	(G00) Civil Engineering, Undergraduate Academic Studies
3.	H202	Strength of materials	(H00) Mechatronics, Undergraduate Academic Studies
4.	M2412	Theory of Elasticity	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
5.	M4402	Dynamics and Stability of Constructions	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	BMI96	Mechanics	(BM0) Biomedical Engineering, Undergraduate Academic Studies
7.	II1004	Mechanics and Industrial Engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	M2546	Selected Chapters in the Theory of Elasticity	(M22) Mechanization and Construction Engineering, Master Academic Studies
9.	M4503	Higher Course in Elasticity	(M40) Technical Mechanics and Technical Design, Master Academic Studies
10.	DAU003	Selected Chapters in Mechanics	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
11.	DM403	Mathematical Rod Theory	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies
13.	ZRD16A	Selected chapters in mechanics and elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Atanackovic, T. M., Novakovic, B. N.: ON A FRACTIONAL DERIVATIVE TYPE OF A VISCOELASTIC BODY. Theoretical and Applied Mechanics. Vol. 28-29, pp 27-37, Belgrade 2002
2. B. N. Novakovic, T. M. Atanackovic.: ON STABILITY OF THE COLUMN WITH A STEP CHANGE IN A CROSS SECTION. Iranian Journal of Science and Technology. Vol 28, No B4, 2004
3. T. M. Atanackovic, B. N. Novakovic, : OPTIMAL SHAPE OF AN ELASTIC COLUMN ON ELASTIC FOUNDATION. European Journal of Mechanics A/Solids. Vol.25, No 1, pp 154-165, 2006
4. Branislava N. Novaković: O STABILNOSTI ŠTAPA NA ELASTIČNOJ PODLOZI, Međunarodna konferencija 2006 SAVREMENI PROBLEMI U GRAĐEVINARSTVU, Subotica, 2-3 Jun 2006
5. Novakovic B., Atanackovic T.: ON THE OPTIMAL SHAPE OF AN ELASTIC ROD ON ELASTIC FUONDATION, The First International Conference on Computational Mechanics, Belgrade, November 15-17, 2004
6. B. N. Novakovic, STABILITY OF THE COLUMN WITH A STEP CHANGE, 23th Congress of Theoretical and Applied Mechanics, Belgrade, October 12-13, 2001
7. B. N. Novakovic, ON STABILITY OF THE COLUMN WITH A STEP CHANGE, ISIRR 2002, Novi Sad, October 2002

Representative refferences (minimum 5, not more than 10)

8.	Atanackovic T., Novakovic B. : STABILITY OF AN ELASTIC ROD ON ELASTIC FOUNDATION,24th Congress of Theoretical and Applied Mechanics, Belgrade, October 9-10, 2003.
9.	B. N. Novaković, T. M. Atanacković: STABILNOST ELASTIČNOG ŠTAPA NA ELASTIČNOJ PODLOZI, INDIS 2003, 9th National and 3rd International scientific meeting, Novi Sad,
10.	Atanackovic T.M., Novakovic B.N.: OPTIMAL SHAPE OF AN ELASTIC, 25th Congress of Theoretical and Applied Mechanics, Novi Sad, June1-3, 2005.

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

Quotation total :	2			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Obradović J. Đorđe
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.07.1998
Scientific or art field:	Applied Computer Science and Informatics

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

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

	ID	Course name	Study programme name, study type
1.	E236A	Computational Intelligence Fundamentals	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	E2K40A	Soft Computing	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	ISIT26	Upravljanje projektima	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
4.	ISIT30	Business process management systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
5.	ISIT41	eGovernment technologies and systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies
6.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE0013	Data Organization	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
9.	E2511	Fuzzy Systems	(E20) Computing and Control Engineering, Master Academic Studies (ES0) Power Software Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
10.	E2512	Neural Networks	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
12.	E2536	Mobile Application Development	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	DRNI07	Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	DRNI14	Selected Chapters in Machine Learning	(E20) Computing and Control Engineering, Doctoral Academic Studies
15.	DRNI17	Selected Topics in ICT enhanced learning	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Konjović Z., Obradović Đ., Racković M., Object oriented implementation of the neural network training system, Proc. Of Seventh IFSA '97 World Congress, Prague 1997.
2.	Obradović Đ. Jovanović D., Konjović Z., Govedarica M., Web based software system supporting detection of topographical symbols, InterGeoEast 2006.
3.	Obradović Đ. Racković M., Algorithmic Structure for Representation of the Various Neural Network Models, XI Conference on Applied Mathematics PRIM '96 Budva 1996.
4.	Konjović Z., Fišl I., Obradović Đ., "Specification of the language for reporting in library information system", YuInfo'98, Kopaonik 1998.
5.	Obradović Đ., Konjović Z.,"The system for the computer supported testing students knowledge", YuInfo'99, Kopaonik 1999.
6.	Šolajić D., Obradović Đ., Konjović Z., "Reengineering in the anthropomorphic gait simulation system", PRIM 2000
7.	Obradović Đ., Konjović Z., "Anthropomorphic Gait Simulation System", PRIM 2000
8.	Obradović Đ., Šolajić D., Konjović Z. "Softverski sistem za administriranje procesa izvođenja nastave", YUINFO 2004
9.	Šolajić D., Obradović Đ., Konjović Z., "Web bazirana aplikacija za podršku razvoju softverskog projekta" YUINFO 2004
10.	Jovanović D., Obradović Đ., Konjović Z., Govedarica M., Softverski sistem za detekciju topografskih znakova na kartama i mapama, YuInfo, Kopaonik 2005.

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

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

Science, arts and professional qualifications

Name and last name:	Ognjanović D. Zoran
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:	2008	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematical Sciences
PhD thesis	1999	Faculty of Science - Kragujevac	Mathematical Sciences
Magister thesis	1993	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1987	Faculty of Mathematics - Beograd	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	D0M11	Models of Computation	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DMUT02	Parallel Computing	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	DOM43	Computability Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
4.	DOM44	Formal Languages Theory and Programming Languages	(OM1) Mathematics in Engineering, Doctoral Academic Studies
5.	DOM46	Computational Complexity Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
6.	DOM47	Knowledge Representation and Automated Reasoning	(OM1) Mathematics in Engineering, Doctoral Academic Studies
7.	DOM52	Selected Topics in Digitization of Cultural and Scientific Heritage	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Zoran Marković, Miodrag Rašković, Zoran Ognjanović, A Logic with Approximate Conditional Probabilities that can Model Default Reasoning, International Journal of Approximate Reasoning Volume 49, Issue 1, 52-66, 2008.
2.	Zoran Ognjanović, Discrete Linear-time Probabilistic Logics: Completeness, Decidability and Complexity, Journal of Logic Computation, Vol. 16, No. 2, 257-285, 2006.
3.	Zoran Ognjanović, Nenad Krdžavac, Uvod u teorijsko računarstvo, FON, Beograd, 2004.
4.	Zoran Ognjanović, Aleksandar Perović, Miodrag Rašković, Logics with the Qualitative Probability Operator, Logic Journal of IGPL, volume 16, number 2, 105-120, 2008.
5.	Aleksandar Perović, Dragan Radojević, Zoran Ognjanović, Miodrag Rašković, Interpolative Boolean Logic, Lecture Notes in Computer Science Volume 5253, 209-219, 2008.
6.	Žarko Mijajlović, Zoran Ognjanović, Digitization of Mathematical Editions in Serbia, Proceedings of the Workshop Towards Digital Mathematics Library DML 2008, July 27th, 2008, Birmingham, UK, editor Petr Sojka, 87 - 95, Masaryk University, 2008.
7.	Zoran Markovic, Zoran Ognjanovic, Miodrag Raskovic: A probabilistic extension of intuitionistic logic. Math. Log. Q. 49(4): 415-424 (2003)
8.	Zoran Ognjanovic, Miodrag Raskovic: Some first-order probability logics. Theor. Comput. Sci. 247(1-2): 191-212 (2000)
9.	Zoran Ognjanović, Zoran Marković, Miodrag Rašković, Dragan Doder, Aleksandar Perović, A propositional probabilistic logic with discrete linear time for reasoning about evidence, Annals of Mathematics and Artificial Intelligence vol. 65, nr. 2-3, 217--243, 2012. DOI: 10.1007/s10472-012-9307-9
10.	Angelina Ilic-Stepić, Zoran Ognjanović, Nebojša Ikodinović, Aleksandar Perović, A p-adic probability logic, Mathematical Logic Quarterly, vol. 58 (4-5), 263-280, 2012. DOI 10.1002/malq201110006

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

Quotation total :	237			
Total of SCI(SSCI) list papers :	17			
Current projects :	Domestic :	3	International :	3

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 carieer	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.	0M512	Models of Computation	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML512	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

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

	ID	Course name	Study programme name, study type
15.	D0M23	Clone Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
17.	AID05	Theory of Mobile Processes	(F20) Engineering Animation, Doctoral Academic Studies
18.	AID06	Graph theory	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (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 - characteization 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

Science, arts and professional qualifications

Name and last name:	Pap E. Endre
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad
	01.01.1971
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1986	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1976	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1973	Faculty of Mathematics - Beograd	Mathematical Sciences
Bachelor's thesis	1970	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.	D0M07	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	E. Pap, Decompositions of supermodular functions and decomposable measures, Fuzzy Sets and Systems 65 (1994), 71-83.
2.	E. Pap, The range of null-additive fuzzy and non-fuzzy measures, Fuzzy Sets and Systems 65 (1994), 105-115.
3.	E. P. Klement, R. Mesiar, E. Pap, A characterization of the ordering of continuous t-norms, Fuzzy Sets and Systems 86 (1997), 189-195.
4.	E. Pap, D. Vivona, Non-commutative and non-associative pseudo-analysis and its applications on nonlinear partial differential equations, J. Math. Anal. Appl. 246 (2000), 390-408.
5.	E. P.Klement, R. Mesiar, E. Pap, Construction of t-norms by means of non-decreasing functions, Fuzzy Sets and Systems 104 (1999), 3-13.
6.	R. Mesiar, E. Pap, Idempotent integral as limit of g-integrals, Fuzzy Sets and Systems 102 (1999), 385-392.
7.	E. P. Klement, R. Mesiar, E. Pap, Uniform approximation of associative copulas by strict and non-strict copulas, Illinois J. Math. 45, No. 4 (2001), 1393-1400.
8.	E. Pap, Decomposable measures and nonlinear equations, Fuzzy Sets and Systems 92 (1997), 205-221.
9.	O. Hadžić, E. Pap, V. Radu, Some generalized contraction mapping principles in probabilistic metric spaces, Acta Math. Hungarica 101 (1-2) (2003), 111-128.
10.	E.P. Klement, R. Mesiar, E. Pap, Triangular norms as ordinal sums in the sense of A. H. Clifford, Semigroup Forum 65 (2002), 71-82.

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

Quotation total :	500			
Total of SCI(SSCI) list papers :	57			
Current projects :	Domestic :	2	International :	1

Science, arts and professional qualifications

Name and last name:	Pavlović D. Milan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin
	01.01.1900
Scientific or art field:	Engineering Management

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Engineering Management
PhD thesis	1996	Faculty of Technical Sciences "Mihajlo Pupin" in Zrenjanin - Zrenjanin	Engineering Management
Magister thesis	1977	Faculty of Mechanical Engineering - Beograd	Mechanical Engineering
Bachelor's thesis	1974	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.	DAS044	Poslovna ekologija(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
2.	OAS013	Ekološko inženjerstvo(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	OAS193	Upravljanje kvalitetom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
4.	OAS220	Upravljanje tehnološkim razvojem(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	SZD042	Models of economic evaluation of environmental projects	(Z00) Environmental Engineering, Specialised Academic Studies
6.	ZDO42	Models of Economic Evaluation of Projects for Environment Protection	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Resursi i ekologija, 2002
2.	Ekološko inženjerstvo, 2002
3.	Kvalitet i integrisani menadžment sistemi, 2006
4.	Stanojević, M., Radić, D., Jovović, A., Pavlović, M., Karamarković, V.: The influence of variable operating conditions on the design and exploitation of fly ash pneumatic transport systems in thermal power plants, Brazilian Journal of Chemical Engineering, ISSN: 0104-6632, IF=0.448, vol. 25 issue 04 (October-December 2008)
5.	Pavlović, M.: Valorizacija sistema kolekcije u procesu reciklaže čvrstog komunalnog otpada, Međunarodna konferencija - naučni skup ""Preventivni inženjering i životna sredina"", Niš: 1995, str. 186- 189
6.	Sustainable development of Banat region
7.	Pavlović, M., Arsovki S.: Cena kvaliteta, "Kvalitet", 2008, No. 1-2, str. 25- 28, ISSN 0354-2408.
8.	Stanojević, M., Jovović, A., Radić, D., Pavlović, M.: Oxygen transfer efficiency of the aeration process in refinery waste water treatment, Revista de Chimie, Syscom 18 s.r.l., Bucharest, Romania, ISSN: 0034 - 7752, IF= 0.287 (2006.). 59, nr. 2, 2008.
9.	Djapić, N., Pavlović, M., Chlorophyl catabolite from Parrotia persica autumnal leaves, Revista de Chimie, Syscom 18 s.r.l., Bucharest, Romania, ISSN: 0034 - 7752, IF= 0.287 (2006.). 59, nr. 2, 2008.
10.	Arsovski, Z., Pavlović, M., Arsovski, S.,: Improving the quality of maintrance process using information technology, Strojniski vestnik, ISSN: 0039-2480, IF= 0.088 No.10/08

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	3	International :	1

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	B. Perišić, G. Milosavljević "A Method and Tool for Rapid Prototyping of Large Scale Business Information Systems" COMSIS 2004
2.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214
3.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214

Representative refferences (minimum 5, not more than 10)

4.	Branko Perišić "DMIS-Distributed Medical Information System Concept&Structure", SystemScienceJournal N0.1 Vol.13 1987
5.	Dejanović I., Perišić B., Milosavljević G., Stričević N.: Towards a foundation for distributed version control of SLE artifacts. In 3rd International Workshop on Model-Based Software and Data Integration
6.	Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf
7.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94
8.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain-Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24
9.	G.Milosavljević, B.Perišić "Really Rapid Prototyping of Large-Scale Business Information Systems", IEEE Workshop on Rapid Systems Prototyping San Diego 2003
10.	Perišić B., Zečević I.: Program package University organizational structure Korisnik: FTN Novi Sad, Univerzitet u Novom Sadu Rađeno za: TEMPUS , 2007

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

Quotation total :	12			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	6

Science, arts and professional qualifications

Name and last name:	Petrić J. Zoran
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.01.1900
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematics
PhD thesis	1997	Faculty of Mathematics - Beograd	Mathematics
Magister thesis	1993	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1988	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	DOM45	Categorical Proof Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Equality of Proofs for Linear Equality (co-author: K. Došen), Archive for Mathematical Logic, 47 (2008), pp. 549-565
2.	Medial Commutativity (co-author: K. Došen), Annals of Pure and Applied Logic 146 (2007), pp. 237-255
3.	Associativity as Commutativity (co-author: K. Došen), The Journal of Symbolic Logic 71, 1 (2006), pp. 217-226
4.	Coherence for Star-Autonomous Categories (co-author: K. Došen), Annals of Pure and Applied Logic 141 (2006), pp. 225-242
5.	A new proof of the faithfulness of Brauer's representation of Temperley-Lieb algebras (co-authors: K. Došen and Ž. Kovijanić), International Journal of Algebra and Computation 16, 5 (2006), pp. 959-968
6.	Coherence of Proof-Net Categories (co-author: K. Došen), Publications de l' Institut Mathematique, tome 78 (92) (2005), pp. 1-33
7.	The geometry of self-adjunction (co-author: Kosta Došen), Publications de l' Institut Mathematique, 73 (87) (2003), pp. 1-29
8.	A Brauerian representation of split preorders (co-author: Kosta Došen), Mathematical Logic Quarterly 49(2003), pp. 579-586
9.	G-Dinaturality, Annals of Pure and Applied Logic 122(2003), pp. 131-173
10.	Self-adjunctions and matrices (co-author: Kosta Došen), Journal of Pure and Applied Algebra 184(2003), pp. 7-39

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

Quotation total :	80			
Total of SCI(SSCI) list papers :	32			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

Name and last name:	Petrović -. Vojislav
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Mathematical Sciences

Academic carieer	Year	Institution	Field
Academic title election:			

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

	ID	Course name	Study programme name, study type
1.	SE0009	Discrete Mathematics	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
2.	D0M33	Positional Games	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	DOM54	Computational geometry	(F20) Engineering Animation, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Petrović V., Some unavoidable subgraphs of strong tournaments, Colloquia Mathematica Societatis Janos Bolyai, 37.Finite and infinite sets, Eger (Hungaria), 1987, 423-426.
2.	Petrović V., Some unavoidable subgraphs of tournaments, Journal of Graph Theory, Vol.12, No.3 (1988), 317-325.
3.	Petrović V., Thomassen C., Kings in k-partite tournaments, Discrete Mathematics, 96 (1991), 237-238
4.	engPetrović V., Decomposition of some planar graphs into trees, Discrete Mathematics 150 (1997), 449-451.
5.	Petrović V., Kings in bipartite tournaments, Discrete Mathematics 173 (1997), 187-196.
6.	Petrović V., Path numbers of balanced bipartite tournaments, Discrete Mathematics 236 (2001), 281-285.
7.	Petrović V., Treml M., Claws in rotational tournaments, Graphs & Combinatorics 18 (2002), 591-596.
8.	Petrović V., Thomassen C., Edge-disjoint Hamiltonian cycles in hypertournaments, Journal of Graph Theory 51(2006), 49-52.
9.	Brcanov D., Petrović V., Toppling koings in multipartite tournaments by introducing new kings, Discrete Mathematics 310 (2010), 2550-2554.
10.	Brcanov D., Petrović V., Treml M., Kings in hypertournaments, Graphs and Combinatorics, online January 2012.

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

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

Science, arts and professional qualifications

Name and last name:	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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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, MONATSHEFTE 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

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

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 carieer	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 refferences (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.	Ćosić 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 tehnologies education management, 2011, Vol. 6, No 4, pp. 1073-1082, ISSN 1840-1503
4.	Sakulski D., Ćosić 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., Ćosić 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., Ćosić 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., Ćosić 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)

Representative refferences (minimum 5, not more than 10)

8.	Popović Lj., Popov S., Ćosić 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., Ćosić 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

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 carieer	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 refferences (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.

Representative refferences (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., Kukolj 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

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 carieer	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 engledskom), Master Academic Studies
17.	SZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Specialised Academic Studies
18.	SZDO03	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

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 refferences (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., Ćulibrk 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

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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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

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 carieer	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.	0M502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
7.	0M508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0M517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
9.	0ML502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
10.	0ML508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
11.	0ML517	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	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.	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

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 refferences (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, ročnik 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

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

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

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

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

Science, arts and professional qualifications

Name and last name:	Rašković D. Miodrag
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.01.2006
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2006	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematics
PhD thesis	1983	Faculty of Mathematics - Beograd	Mathematics
Magister thesis	1978	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1975	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	DOM47	Knowledge Representation and Automated Reasoning	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	D. G. Radojevic, A. Perovic, Z. Ognjanovic, M. Raskovic: Interpolative Boolean Logic. AIMSA 2008: 209-219, LNCS 5253 Springer 2008, ISBN 978-3-540-85775-4
2.	A. Perovic, Z. Ognjanovic, M. Raskovic, Z. Markovic: A Probabilistic Logic with Polynomial Weight Formulas. FoIKS 2008: 239-252, LNCS, 4932 Springer 2008, ISBN 978-3-540-77683-3
3.	A. Perovic, Z. Ognjanovic, M. Raskovic, Z. Markovic: How to Restore Compactness into Probabilistic Logics?. JELIA 2008: 338-348, LNCS 5293 Springer 2008, ISBN 978-3-540-87802-5
4.	N. Ikodinovic, M. Raskovic, Z. Markovic, Z. Ognjanovic: Measure Logic. ECSQARU 2007: 128-138, LNCS 4724 Springer 2007, ISBN 978-3-540-75255-4
5.	M. Raskovic, Z. Ognjanovic, Z. Markovic: A Logic with Conditional Probabilities. JELIA 2004: 226-238, LNCS 229 Springer 2004, ISBN 3-540-23242-7
6.	M. Raskovic, Z. Ognjanovic, Z. Markovic: A probabilistic approach to default reasoning. NMR 2004: 335-341, James P. Delgrande, Torsten Schaub (Eds.): 10th International Workshop on Non-Monotonic Reasoning (NMR 2004), Whistler, Canada, June 6-8, 2004, Proceedings. 2004, ISBN 92-990021-0-X
7.	M. Raskovic, Z. Markovic, Z. Ognjanovic: A logic with approximate conditional probabilities that can model default reasoning. Int. J. Approx. Reasoning 49(1): 52-66 (2008)
8.	Z. Ognjanovic, A. Perovic, M. Raskovic: Logics with the Qualitative Probability Operator. Logic ; Journal of the IGPL 16(2): 105-120 (2008)
9.	N. Ikodinovic, M. Raskovic, Z. Markovic, Z. Ognjanovic: Measure Logic. ECSQARU 2007: 128-138, LNCS 4724 Springer 2007, ISBN 978-3-540-75255-4
10.	R. S. Djordjevic, M. Raskovic, Z. Ognjanovic: Completeness theorem for propositional probabilistic models whose measures have only finite ranges. Arch. Math. Log. 43(4): 557-564 (2004)

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

Quotation total :	307			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	2	International :	1

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 carieer	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.	EI410	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

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

	ID	Course name	Study programme name, study type
13.	DZ01F	Selected Chapters in Physics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (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

Science, arts and professional qualifications

Name and last name:	Simeunović M. Milan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	15.03.1998
Scientific or art field:	Transport Organization and Technology

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Transport Organization and Technology
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Traffic Engineering
Bachelor's thesis	1997	Faculty of Technical Sciences - Novi Sad	Traffic Engineering

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

	ID	Course name	Study programme name, study type
1.	S0432	Traffic Flow Theory	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (G00) Civil Engineering, Undergraduate Academic Studies
2.	S0436	Urban Public Transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0441	Urban Public Transport Technology	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
4.	S051	Traffic Design	(S00) Traffic and Transport Engineering, Master Academic Studies
5.	S0I591	Quality System in Road Transport	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	S0I592	Project Evaluation	(S00) Traffic and Transport Engineering, Master Academic Studies
7.	S0I594	Traffic Forecasts	(S00) Traffic and Transport Engineering, Master Academic Studies
8.	S0MJ4	Planning of Public transport	(S00) Traffic and Transport Engineering, Master Academic Studies
9.	SOP2	Transportation Demand Management	(S00) Traffic and Transport Engineering, Master Academic Studies
10.	SDI6	Optimization of the Goods Transportation Process	(OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies
11.	SDI7	Passenger Transport Process Optimization	(S00) Traffic Engineering, Doctoral Academic Studies
12.	DSSK3A	Research and simulation of road traffic flow	(S00) Traffic Engineering, Doctoral Academic Studies
13.	DSSK4	Urban planning and development of transport networks	(S00) Traffic Engineering, Doctoral Academic Studies
14.	DSSK6	Maintainable urban transport systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Pavle Gladović, Milan Simeunović, Sistemi javnog autotransporta robe, Fatkultet tehničkih nauka, 2004.
2. Simeunović M., Leković M., Bogdanović V., Papić Z., Pitka P.: The application of a five-regime model in adaptive traffic control, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 1.2/3, ISSN 1840-1503
3. Simeunović M., Leković M., Papić Z., Pitka P.: The influence of vehicle headway irregularity in public transport on in-vehicle passenger comfort, Scientific Research and Essays, 2012, Vol. 7, No 32, pp. 2874-2881, ISSN 1992-2248
4. Simeunović M., Leković M., Radojković M., Pitka P.: The Information System “Isput“ for Monitoring and Controlling Transport, Suvremeni promet, 2011, pp. 65-69, ISSN 0351-1898, UDK: 343.346:614.8
5. Pavle Gladović, Milorad Eskić, Milan Simeunović, 16. Geometrijski model upravljanja procesom preventivnog održavanja fuzzy logikom, Časopis "TEHNIKA", br. 4/5 Beograd 2003, str 7-17.
6. Pavle Gladović, Milan Simeunović, Milica Miličić, Kvalitet usluge u drumskom transportu, Časopis Saveza inženjera i tehničara "TEHNIKA" br.3, str 113-120, Beograd 2004.
7. Milan Simeunović, Vreme čekanja kao parametar kvaliteta prevozne usluge u javnom prevozu putnika, str. 245-251 10th International Conference DEPENDABILITY AND QUALITY MANAGEMENT ICDQM-2007 Belgrade, Serbia, 13-14 June 2007.
8. Milomir Veselinović, Milan Simeunović, Ravnomernost intervala u funkciji kvaliteta usluge u javnom prevozu, "SAVREMENE STRATEGIJE UNAPREĐENJA SAOBRAĆAJA U GRADOVIMA, Novi Sad, 18–19. X.2007
9. Milomir Veselinović, Milan Stanisaljević, Milan Simeunović, Značaj železnice u raspodeli putovanja po podsistemima u javnom gradskom i prigradskom prevozu putnika, JUŽEL, Vrnjačka Banja, 1999. str 533-536

Representative refferences (minimum 5, not more than 10)

10.	Pavle Gladović, MIlan Simeunović, Milica Miličić, Zahtevani kvalitet usluge sistema javnog gradskog i prigradskog prevoza putnika, 10th International Conference DEPENDABILITY AND QUALITY MANAGEMENT ICDQM-2007 Belgrade, Serbia, 13-14 June 2007.str 269-275

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

Quotation total :	1			
Total of SCI(SSCI) list papers :	2			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Simić S. Srboljub
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	25.11.1993
Scientific or art field:	Mechanics

Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mechanics
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanics
Magister thesis	1997	Faculty of Mathematics - Beograd	Mechanics
Bachelor's thesis	1993	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.	E104	Mechanics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies
2.	GG07	Mechanics 1	(G00) Civil Engineering, Undergraduate Academic Studies
3.	M4305	Thermomechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
4.	Z108	Fundamentals of Mechanics	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
5.	M44031	Analytical mechanics	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
6.	M4505	Modelling of non-linear systems	(M40) Technical Mechanics and Technical Design, Master Academic Studies
7.	BMIM4A	Transport phenomena and Living systems	(BM0) Biomedical Engineering, Master Academic Studies
8.	DM407	Nonlinear Mechanics with Nonconservative Properties	(M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
9.	DSIM8	Selected Chapters in Dynamics and Control	(M40) Technical Mechanics, Doctoral Academic Studies
10.	DZ003	Selected Chapters in Mechanics	(M00) Mechanical Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Srboljub S. Simić: Analitička mehanika: dinamika, stabilnost, bifurkacije, Fakultet tehničkih nauka, Novi Sad 2006., Edicija „Tehničke nauke - udžbenici", 415 str., ISBN 86-85211-83-2
2. Srboljub S. Simić, Ratko B. Maretić: Osnove mehanike, Fakultet tehničkih nauka, Novi Sad 2008., Edicija „Tehničke nauke - udžbenici", 273 str., ISBN 978-86-7892-147-6
3. B.D. Vujanovic, T. Kawaguchi, S.S. Simic (1997), A Class of Conservation Laws of Linear Time-Dependent Dynamical Systems, TENSOR (NS), 58 (3), pp. 243-252.
4. T.M. Atanackovic, S.S. Simic (1999), On the optimal shape of a Pflüger column, European Journal of Mechanics, A/Solids, 18 (5), pp. 903-913.<\eng>
5. S.S. Simic (2002), On the symmetry approach to polynomial conservation laws of one-dimensional Lagrangian systems, International Jounal of Non-Linear Mechanics, 37, pp. 197-211.<\eng>
6. T. Ruggeri, S. Simić (2004), Non Linear Wave Propagation in Binary Mixtures of Euler Fluids, Continuum Mechanics and Thermodynamics, 16, pp. 125-148.<\eng>
7. T. Ruggeri, S. Simić (2007), On the Hyperbolic system of a mixture of Eulerian fluids: a comparison between single- and multi-temperature models, Mathematical Methods in the Applied Sciences, 30, pp. 827-849.<\eng>
8. T. Ruggeri, S. Simić (2009) Average temperature and Maxwellian iteration in multitemperature mixtures of fluids, Physical Review E, vol. 80, 026317
9. T. Atanacković, S. Konjik, S. Pilipović, S. Simić (2009) Variational problems with fractional derivatives: Invariance conditions and Nöther's theorem, Nonlinear Analysis: Theory, Methods and Applications, vol. 71, pp. 1504-1517
10. S. Simić (2009) Shock structure in continuum models of gas dynamics, Nonlinearity, vol. 20, pp. 1337-1366

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

Quotation total :	7			
Total of SCI(SSCI) list papers :	9			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Simić S. Dragan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.03.2009
Scientific or art field:	Integral Transport and Logistics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Integral Transport and Logistics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Informatics and Computing
Magister thesis	2001	Faculty of Technical Sciences - Novi Sad	Informatics and Computing
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electronics and Telecommunications

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

	ID	Course name	Study programme name, study type
1.	S01321	Information technology basics	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
2.	S024N	Information technologies in transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies
3.	S0I598	E-Logistics	(S00) Traffic and Transport Engineering, Master Academic Studies
4.	BMIM4E	Data analysis in clinical research	(BM0) Biomedical Engineering, Master Academic Studies
5.	S0M22	PROJECT MANAGEMENT	(S00) Traffic and Transport Engineering, Master Academic Studies
6.	SI593	Information systems for managing Enterprise resource planing	(S01) Postal Traffic and Telecommunications, Master Academic Studies
7.	DSA00	Logistics of Heterogeneous Intensive Processes	(S00) Traffic Engineering, Doctoral Academic Studies
8.	DSIM9	E-logistics	(S00) Traffic Engineering, Doctoral Academic Studies
9.	DSN1	Logistics Systems	(OM1) Mathematics in Engineering, Doctoral Academic Studies
10.	DSSL2	Selected topics from inventory management	(S00) Traffic Engineering, Doctoral Academic Studies
11.	DSSL3	Warehause and storage	(S00) Traffic Engineering, Doctoral Academic Studies
12.	DSSL4	Logistics information systems	(S00) Traffic Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Dragan Simić, Ilija Kovačević, Svetlana Simić, "Insolvency prediction for assessing corporate financial health". Logic Journal of the IGPL, Vol. 20, Num 3, pp. 536-549 (2012) ISSN 1367-0751
2.	Svetlana Simić, Dragan Simić, Milan Cvijanović. "Clinical and socio-demographic characteristics of tension type headache in working population". HealthMED – Vol. 6, Num. 4, 2012. pp. 1341-1347. ISSN: 1840-2991
3.	Simić Svetlana, Simić Dragan: "Relationship between sociodemographic characteristics and migraine in working women". HealthMED, Vol. 4, Num. 1 (2010) pp. 21-28
4.	Dragan Simić, Svetlana Simić, ”An approach to efficient business intelligent system for financial prediction”, In: Mu-Yen Chen (ed.) ”Soft Computing¬” Vol. 11, Num 12, October 2007, pp. 1185-1192, Springer-Verlag, Berlin Heidelberg (2007). ISSN 1432-7643
5.	Dragan Simić, Zoran Budimac, Vladimir Kurbalija, Mirjana Ivanović, Case-Based Reasoning for Financial Prediction, In: Moonis Ali, Floriana Esposito (eds.) ”Innovations in Applied Artificial Intelligence”, LNAI vol. 3533, pp. 839-841. Springer-Verlag, Berlin Heidelberg (2005). ISSN 0302-9743
6.	Dragan Simić, Svetlana Simić, ”Hybrid Artificial Intelligence Approaches on Vehicle Routing Problem in Logistics Distribution”,"Hybrid Artificial Intelligent Systems", LNAI, vol. 7208, pp. 208-220. Springer-Verlag Berlin Heidelberg (2012), DOI: 10.1007/978-3-642-28942-2_19, ISSN 0302-9743
7.	Dragan Simić, Dragana Milutinović, Svetlana Simić, Vesna Suknjaja:”Hybrid Patient Classification System in Nursing Logistics Activities”. "Hybrid Artificial Intelligent Systems", LNAI vol. 6679, pp. 421-428. Springer-Verlag, Berlin Heidelberg (2011). ISSN 0302-9743
8.	Dragan Simić, Svetlana Simić, Ilija Tanackov, "An Approach of Soft Computing Applications in Clinical Neurology", "Hybrid Artificial Intelligent Systems", LNAI vol. 6679, pp. 429-436. Springer-Verlag, Berlin Heidelberg (2011). ISSN 0302-9743
9.	Dragan Simić, Svetlana Simić, "A Review: Approach of Fuzzy Models Application in Logistics", "ADVANCES IN INTELLIGENT AND SOFT COMPUTING", vol. 95, Computer Recognition Systems 4, pp. 717-726, ISSN 1867-5662, ISBN 978-3-642-20319-0, Springer-Verlag Berlin Heidelberg, 2011
10.	Ilija Tanackov, Dragan Simić, Sinisa Sremac, Jovan Tepić, Suncica Kocić-Tanackov: "Markovian Ants in a Queuing System", "Hybrid Artificial Intelligent Systems", LNAI vol. 6076, pp. 32-39. Springer-Verlag, Berlin Heidelberg (2010). ISSN 0302-9743

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

Quotation total :	0

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

Science, arts and professional qualifications

Name and last name:	Simić K. Slobodan
Academic title:	Science Adviser
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.01.2005
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1994	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Mathematics
PhD thesis	1979	School of Electrical Engineering - Beograd	Electronics
Magister thesis	1977	School of Electrical Engineering - Beograd	Electronics
Bachelor's thesis	1973	School of Electrical Engineering - Beograd	Electronics

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

	ID	Course name	Study programme name, study type
1.	D0M17	Combinatorics	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	DOM31	Combinatorial Matrix Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	DOM40	Spectral Graph Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Francesco Belardo, Enzo Maria Li Marzi, Slobodan K. Simic: Ordering graphs with index in the interval (2, sqrt(2+sqrt(5))). Discrete Applied Mathematics 156(10): 1670-1682 (2008)
2.	Slobodan K. Simic, Enzo Maria Li Marzi, Francesco Belardo: On the index of caterpillars. Discrete Mathematics 308(2-3): 324-330 (2008)
3.	Slobodan K. Simic, Zoran Stanic: Q-integral graphs with edge-degrees at most five. Discrete Mathematics 308(20): 4625-4634 (2008)
4.	Mustapha Aouchiche, Francis K. Bell, Dragos Cvetkovic, Pierre Hansen, Peter Rowlinson, Slobodan K. Simic, Dragan Stevanovic: Variable neighborhood search for extremal graphs. 16. Some conjectures related to the largest eigenvalue of a graph. European Journal of Operational Research 191(3): 661-676 (2008)
5.	Dragos Cvetkovic, Peter Rowlinson, Slobodan K. Simic: Graphs With Least Eigenvalue -2: A New Proof of the 31 Forbidden Subgraphs Theorem. Designes Codes and Cryptography 34(2-3): 229-240 (2005)
6.	Krystyna T. Balinska, Slobodan K. Simic, Krzysztof T. Zwierzyski: Which non-regular bipartite integral graphs with maximum degree four do not have pm1 as eigenvalues? Discrete Mathematics 286(1-2): 15-24 (2004)
7.	Dragos Cvetkovic, Mirko Lepovic, Peter Rowlinson, Slobodan K. Simic: The Maximal Exceptional Graphs. J. Comb. Theory, Ser. B 86(2): 347-363 (2002)
8.	Krystyna T. Balinska, Slobodan K. Simic: The nonregular, bipartite, integral graphs with maximum degree 4. Part I: basic properties. Discrete Mathematics 236(1-3): 13-24 (2001)
9.	Dragos Cvetkovic, Peter Rowlinson, Slobodan K. Simic: on Some Algorithmic Investigations of Star Partitions of Graphs. Discrete Applied Mathematics 62(1-3): 119-130 (1995)
10.	Dragos Cvetkovic, Slobodan K. Simic: On graphs whose second largest eigenvalue does not exceed (sqrt(5)-1)/2. Discrete Mathematics 138(1-3): 213-227 (1995)

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

Quotation total :	554			
Total of SCI(SSCI) list papers :	15			
Current projects :	Domestic :	3	International :	2

Science, arts and professional qualifications

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

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

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

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

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

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

Representative refferences (minimum 5, not more than 10)

1.	Sladić G., Milosavljević B., Surla D., Konjović Z.: Flexible Access Control Framework for MARC Records, The Electronic Library, 2012, Vol. 30, No 5, pp. 623-652, ISSN 0264-0473, DOI:10.1108/02640471211275684
2.	Gostojić S., Sladić G., Milosavljević B., Konjović Z.: Context-sensitive Access Control Model for Government Services, Journal of Organizational Computing and Electronic Commerce, 2012, Vol. 22, No 2, pp. 184-213, ISSN 1091-9392, DOI:10.1080/10919392.2012.667717
3.	Sladić G., Milosavljević B., Konjović Z., Vidaković M.: Access Control Framework for XML Document Collections, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 3, pp. 591-609, ISSN 1820-0214, DOI: 10.2298/CSIS100827002S
4.	Vidaković M., Milosavljević B., Konjović Z., Sladić G.: Extensible Java EE-Based Agent Framework and Its Application on Distributed Library Catalogues, Computer Science and Information Systems (ComSIS), 2009, Vol. 6, No 2, pp. 1-28, ISSN 1820-0214, DOI: 10.2298/csis0902001V
5.	Sladić G., Milosavljević B., Konjović Z.: Extensible Access Control Model for XML Document Collections, 1. International Conference on Security and Cryptology - SECRYPT, Barcelona: INSTICC, 28-31 Jul, 2007, pp. 373-380, ISBN 9789898111128
6.	Sladić G.: Kontrola pristupa u poslovnim sistemima, Beograd, Zadužbina Andrejević, 2011, ISBN 978-86-525-0000-0
7.	Sladić G.: Kontrola pristupa XML dokumentima, Zadužbina Andrejević, 2008, ISBN 978-86-7244-683-8

Representative refferences (minimum 5, not more than 10)

8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35

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

Quotation total :	54			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	2	International :	0

Science, arts and professional qualifications

Name and last name:	Sladoje Matić I. Nataša
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	14.03.1994
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2011		Mathematics
PhD thesis	2005	University of Novi Sad - Novi Sad	Mathematical Sciences
Magister thesis	1998	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1992	Faculty of Sciences - Novi Sad	Mathematical Sciences

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

	ID	Course name	Study programme name, study type
1.	A101	Mathematics	(A00) Architecture, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	IAM001	Mathematical Shape Modeling for Computer Animation	(F10) Engineering Animation, Undergraduate Academic Studies
5.	IAM004	Geometry of Discrete Space	(F10) Engineering Animation, Undergraduate Academic Studies
6.	IGA008	Mathematics for Engineering Graphics	(F10) Engineering Animation, Undergraduate Academic Studies
7.	BMI91	Mathematics 1	(BM0) Biomedical Engineering, Undergraduate Academic Studies
8.	BMI92	Mathematics 2	(BM0) Biomedical Engineering, Undergraduate Academic Studies
9.	E101A	Discrete Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
10.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
11.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
12.	IA018	Computer Geometry	(F20) Engineering Animation, Master Academic Studies
13.	D0M28	Digital Geometry	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	D0M29	Image Processing 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	D0M30	Image Processing 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
18.	D0M33	Positional Games	(OM1) Mathematics in Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
19.	DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
20.	AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<\eng>
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<\eng>
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<\eng>
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<\eng>
8.	Ćurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349

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

Quotation total :	71			
Total of SCI(SSCI) list papers :	21			
Current projects :	Domestic :	2	International :	3

Science, arts and professional qualifications

Name and last name:	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

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 refferences (minimum 5, not more than 10)

1.	Spasić D., Glavardanov V.: Does generalized elastica lead to bimodal optimal solutions?, International Journal of Solids and Structures, 2009, Vol. 46, No 14-15, pp. 2939-2949, ISSN 0020-7683
2.	Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, No Prihvaćen za štampu, ISSN 0218-1274
3.	D. T. Spasic and T. M. Atanackovic (2004), "Bimodal optimization of a compressed rotating rod", Acta Mechanica, 173, N 1-4, 77-87
4.	Spasić D.: Optimizing the elctrodynamical stabilization method for a man-made Earth satellite, AUTOMAT REM CONTR , 2011, Vol. 72, No 9, pp. 112-121, ISSN 0005-1179
5.	Petrović Lj., Spasić D., Atanacković T.: On a mathematical model of a human root dentin , Dental Materials, 2005, Vol. 21, pp. 125-128, ISSN 0109-5641
6.	Mitić G., Spasić D.: Clinical Characteristic and type of thrombophilia in women with pregnancy-related venous thromboembolic disease, GYNECOL OBSTET INVES, 2011, Vol. 72, No 2, pp. 103-108, ISSN 0378-7346
7.	T. M. Atanackovic and D. T. Spasic, (2004): "On viscoelastic compliant contact-impact models", Transactions of ASME Journal of Applied Mechanics, 71, 134-138
8.	Radovic R., Spasic D.T., Karadzic B., Novakovic B., Atanackovic J., Jelicic Z.. and Tepavcevic B., (2002), ""New challenges and opportunities for the city of Novi Sad"", Coordinated by T. Atanackovic, The Danube Commision of EU and The University of Novi Sad, (monograph 157 pages in English and Serbian)
9.	Spasić D.: Boudary elements, theory and applications (English to serbian traslation done by D.T. Spasić), Beograd, Gradjevinska knjiga, 2011
10.	BD Vujanović, DT Spasić: Metodi optimizacije: primenjeni varijacioni račun, analitička mehanika, optimalno upravljanje, UNS, 1997.

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

Quotation total :	16			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	1	International :	0

Science, arts and professional qualifications

Name and last name:	Stankovski V. Stevan
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 23.03.1987
Scientific or art field:	Mechatronics, Robotics and Automation and Integral Systems

Academic carieer	Year	Institution	Field
Academic title election:	2005	Faculty of Technical Sciences - Novi Sad	Mechatronics, Robotics and Automation and Integral Systems
PhD thesis	1994	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Magister thesis	1991	School of Electrical Engineering - Beograd	Electrical and Computer Engineering
Bachelor's thesis	1987	Faculty of Technical Sciences - Novi Sad	Electrical and Computer Engineering

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

	ID	Course name	Study programme name, study type
1.	H105	Fundamentals in Computer science	(H00) Mechatronics, Undergraduate Academic Studies
2.	H109	Fundamentals in Programming	(H00) Mechatronics, Undergraduate Academic Studies
3.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
4.	H1409	Intelligent Systems	(H00) Mechatronics, Undergraduate Academic Studies
5.	H1410	Programming and application of programmable logic controllers	(H00) Mechatronics, Undergraduate Academic Studies
6.	H1501A	Systems for Survailance and Visualisation of Process	(H00) Mechatronics, Undergraduate Academic Studies
7.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
8.	H311	Application of Sensors and Actuators	(H00) Mechatronics, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
9.	BM116C	Motion control	(BM0) Biomedical Engineering, Undergraduate Academic Studies
10.	BMI106	Rehabilitation devices and systems	(BM0) Biomedical Engineering, Undergraduate Academic Studies
11.	BMI110	Sensors and actuators in medicine	(BM0) Biomedical Engineering, Undergraduate Academic Studies
12.	II1009	Automatic identification systems	(I10) Industrial Engineering, Undergraduate Academic Studies
13.	II1010	Control of technical systems	(I10) Industrial Engineering, Undergraduate Academic Studies
14.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
15.	II1015	Programmable Logic Controllers (PLC)	(I10) Industrial Engineering, Undergraduate Academic Studies
16.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
17.	II1042	Automation of Continual Processes	(I10) Industrial Engineering, Undergraduate Academic Studies
18.	II1045	Systems for measurement, surveillance and control	(I10) Industrial Engineering, Undergraduate Academic Studies
19.	II1048	Artificial intelligence in engineering	(I10) Industrial Engineering, Undergraduate Academic Studies
20.	IM1022	Fundamentals of technical systems control	(I20) Engineering Management, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
21.	IM1035	Identification technologies in enterprises	(I20) Engineering Management, Undergraduate Academic Studies
22.	IM1719	Implementation of information systems in insurance	(I20) Engineering Management, Undergraduate Academic Studies
23.	H505	Implementation of automated systems	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
24.	HDOS12	Research in the area of automatic identification technology	(I12) Industrial Engineering, Specialised Academic Studies
25.	HDOS13	Motion control and application of MEMS	(I12) Industrial Engineering, Specialised Academic Studies
26.	HDOS14	Nonindustrial automation	(I12) Industrial Engineering, Specialised Academic Studies
27.	IMDR0S	Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
28.	MBA414	Integrated Business Processes	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
29.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
30.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
31.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
32.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
33.	GS006	Intelligent Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
34.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
35.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
36.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies
37.	I903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies
38.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies
39.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
40.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies
41.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
42.	GD018	Automation and Robotics in Construction	(G00) Civil Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
43.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
44.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
45.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
46.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
47.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
48.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
49.	HDOL13	Motion controla and application of MEMS	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
50.	HDOL14	Nonindustrial automation	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
51.	IMDR0	Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
52.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Stankovski S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Didactic Manipulator in Mechatronics and Industrial Engineering Courses, IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. 572-579, ISSN 0018-9359

Representative refferences (minimum 5, not more than 10)

2.	Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575
3.	Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016
4.	Stankovski, S., Ostojić, G., Raković, M., Trajan, L., Šenk, I., Nikolić, M.: Zbirka rešenih zadataka iz: Programiranje i primena programabilno logičkih kontrolera, Fakulte tehničkih nauka, 2009
5.	Stankovski, S., Rakić-Skoković, M., Šešlija, D., Ostojić, G.: Primena RFID tehnologije u automatizaciji
6.	Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R.: RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, No 4, pp. 364-370, ISSN 0144-5154
7.	Ostojić G., Lazarević M., Stankovski S., Ćosić I.: RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 11, pp. 759-767, ISSN 0039-2480, UDK: 658.5
8.	Popović B., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote Control of Laboratory Equipment for Basic Electronics Courses: A LabVIEW-based Implementation DOI: 10.1002/cae.20531, Computer Applications in Engineering Education, 2011, ISSN 1061-3773
9.	Stankovski S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML Robot Grasping Process Improvement,Iranian Journal of Science & Technology, 2011, Vol.35, No M1, pp. 197-207, Transactions B ISSN: 1028-6284
10.	Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators,Iranian Journal of Science & Technology, Transactions B, 2012, Vol. 36, No M1, pp. 95-106, ISSN: 1028-6284

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

Quotation total :	25			
Total of SCI(SSCI) list papers :	20			
Current projects :	Domestic :	3	International :	4

Science, arts and professional qualifications

Name and last name:	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

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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	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

Science, arts and professional qualifications

Name and last name:	Stojaković Z. Miloš
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad 01.10.1999
Scientific or art field:	Informatics and Computing

Academic carieer	Year	Institution	Field
Academic title election:	2011	Faculty of Sciences - Novi Sad	Informatics and Computing
PhD thesis	2005	ETH Zurich - Zurich	Informatics
Magister thesis	2001	Faculty of Sciences - Novi Sad	Informatics
Bachelor's thesis	1999	Faculty of Sciences - Novi Sad	Informatics

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

	ID	Course name	Study programme name, study type
1.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	D0M33	Positional Games	(OM1) Mathematics in Engineering, Doctoral Academic Studies
4.	DOM54	Computational geometry	(F20) Engineering Animation, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	T. Christ, D. Palvolgyi, M. Stojakovic: Consistent digital line segments, Discrete & Computational Geometry 47 (2012), 691-710.
2.	D. Hefetz, M. Rakic, M. Stojakovic: Doubly biased Maker-Breaker Connectivity game, The Electronic Journal of Combinatorics 19 (2012), P61.
3.	D. Hefetz, M. Krivelevich, M. Stojakovic, T. Szabo: Global Maker-Breaker games on sparse graphs, European Journal of Combinatorics 32 (2011), 162-177.
4.	D. Hefetz, M. Krivelevich, M. Stojakovic, T. Szabo: Avoider-Enforcer: The rules of the Game, Journal of Combinatorial Theory, Series A 117 (2010), 152-163.
5.	J. Barat, M. Stojakovic: On winning fast in Avoider-Enforcer games, The Electronic Journal of Combinatorics 17 (2010), R56.
6.	D. Hefetz, M. Krivelevich, M. Stojakovic, T. Szabo: Fast winning strategies in Maker-Breaker games, Journal of Combinatorial Theory, Series B 99 (2009), 39-47.
7.	D. Hefetz, M. Krivelevich, M. Stojakovic, T. Szabo: A sharp threshold for the Hamilton cycle Maker-Breaker game, Random Structures & Algorithms 34 (2009), 112-122.
8.	J. Giesen, E. Schuberth, M. Stojakovic: Approximate sorting, Fundamenta Informaticae 90 (2009), 67-72.
9.	D. Hefetz, M. Krivelevich, M. Stojakovic, T. Szabo: Planarity, colorability and minor games, SIAM Journal on Discrete Mathematics 22 (2008), 194-212.
10.	D. Mitsche, M. Marciniszyn, M. Stojakovic: Online balanced graph avoidance games, European Journal of Combinatorics 28 (2007), 2248-2263.

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

Quotation total :	50			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	2	International :	1

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 carieer	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 refferences (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 Strored 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 apllied 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., Šeđerov 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

Science, arts and professional qualifications

Name and last name:	Šenk I. Vojin
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.1987
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2003	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1992	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Magister thesis	1989	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK462	Entrepreneurship in ICT	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
3.	EK464	Communication Systems Design	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	DE310S	Encoding and Signal Transmission Techniques	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
5.	DE510S	Algorithms of Signal Detection and Estimation	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
6.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
7.	EK533	Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
8.	EK534	Cryptography System for Data Protection	(OM1) Mathematics in Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
9.	EK536	Coding Techniques	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
10.	RPR004	Entrepreneurship, Innovation, Knowledge Regions - Role of Universities	(RPR) Regional Development Planning and Management, Master Academic Studies
11.	DAU001	Selected Chapters in Telecommunications and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
12.	DE310	Encoding and Signal Transmission Techniques	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies
13.	DE510	Algorithms of Signal Detection and Estimation	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1. Vukobratović D., Šenk V.: Design and Evaluation of Irregular LDPC Codes Using ACE Spectrum, IEEE Transactions on Communications, 2009, Vol. 57, No 8,, pp. 2272-2279, ISSN 0090-6778, UDK: 10.1109/TCOMM.2009.08.070548
2. Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616
3. Vukobratović D., Šenk V.: Generalized ACE Constrained Progressive Edge-Growth LDPC Code Design , IEEE Communications Letters, 2008, Vol. 12, No 1, pp. 32-34, ISSN 1089-7798, UDK: 10.1109/LCOMM.2008.071457

Representative refferences (minimum 5, not more than 10)

4.	V. Crnojević, V. Šenk, Ž. Trpovski, “Advanced Impulse Detection Based on Pixel-Wise MAD”, IEEE Signal Processing Letters, vol.11, no. 7, 2004, pp. 589-593.
5.	D. Bajić, V. Šenk, M. Despotović, “Subsets of the STM-1 frame-alignment signal: a monitoring analysis”, IEE Proc. Commun., vol. 149, no. 5, Oct. 2002. pp. 242-248.
6.	Miroslav Despotović, Vojin Šenk, Bartolomeu F. Uchôa Filho,”DISTANCE SPECTRA OF CONVOLUTIONAL CODES OVER PARTIAL-RESPONSE CHANNELS”, IEEE Transactions on Communications, vol. 49, no.7, pp. 1121-1124, July 2001.
7.	Kovačević M., Šenk V.: On Possible Dependence Structures of a Set of Random Variables, Acta Mathematica Hungarica, 2012, Vol. 135, No 3, pp. 286-296
8.	Bojović Ž., Perić Z., Delić V., Šećerov E., Sečujski M., Šenk V.: “Comparative Analysis of the Performance of Different Codecs in a live VoIP network using SIP protocol”, Electronics and electrical engineering, 2012, Vol. 117, No 1, pp. 37-42, ISSN 1392-1215
9.	Bojović Ž., Šećerov E., Dobromirov D., Šenk V.: Maximizing the Profit of Telecom Telcos by a Novel Traffic Scheduling Policy , Electronics and electrical engineering, 2011, Vol. 7, No 113, pp. 67-73, ISSN 1392-1215
10.	Bojović ž., Šenk V., Dobromirov D., Bojović P.: Intervendor working of VOIP networks , Journal of the Institute of Telecommunications Professionals, 2011, Vol. 5, No 3, pp. 26-32, ISSN 1755-9278

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

Quotation total :	141			
Total of SCI(SSCI) list papers :	18			
Current projects :	Domestic :	3	International :	3

Science, arts and professional qualifications

Name and last name:	Španik J. Ivan
Academic title:	Guest Professor
Name of the institution where the teacher works full time and starting date:	-
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Slovak University of Technology in Bratislava - Bratislava	Environment Protection Engineering
PhD thesis	2000	Slovak University of Technology in Bratislava - Bratislava	Chemical, Physical and Biological principles in Environment Protection Engineering
Magister thesis	1994	Slovak University of Technology in Bratislava - Bratislava	Chemical, Physical and Biological principles in Environment Protection Engineering

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

	ID	Course name	Study programme name, study type
1.	Z503	Practical Course in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
2.	Z507	Physical and Chemical Principles	(Z20) Environmental Engineering, Master Academic Studies
3.	ZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Doctoral Academic Studies
4.	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
5.	ZSP09	Remediation of Contaminated Sites	(Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	M. V. Miloradov, I. Špánik, J. Radonic, M. T. Sekulic, D. Milovanovic, M. Djogo, O. Vyviurska: The monitoring on emerging substances of municipal and waste water from Novi Sad area discharged into the Danube river, Chem. Listy 106, s244-s245 (2012)
2.	M. Zapadlo, J. Krupčík, T. Kovalczuk, P. Májek, I. Špánik, D.W. Armstrong, P. Sandra: "Enhanced comprehensive two-dimensional gas chromatographic resolution of polychlorinated biphenyls on a non-polar polysiloxane and an ionic liquid column series", Journal of Chromatography A, 1218 (5), 746-751 (2011)
3.	K. Csatayova, I. Špánik, V. Ďurišová, P. Szolcsanyi: "Synthesis of (-)-pinidinone", Tetrahedron - Letters, 51 (50), 6611-6614 (2010)
4.	P. Kubizna, I. Špánik, J. Kožíšek, P. Szolcsányi P: "Synthesis of 2,6-disubstituted piperidine alkaloids from ladybird beetles Calvia 10-guttata and Calvia 14-guttata", Tetrahedron, 66 (13), 2351-2355 (2010)
5.	P. Kooš, I. Špánik, Gracza T.: "Asymmetric intramolecular Pd(II)-catalysed amidocarbonylation of unsaturated amino alcohols", Tetrahedron - assymetry, 20 (23), 2720-2723 (2009)
6.	A. Janáčová, J. Sádecká, Z.Kohajdová, I. Špánik: „The identification of aroma active compounds in Slovak brandy using GC-Sniffing technique, GC-MS and sensory evaluation.“, Chroamtogarphia, 67, S113-S121 (2008)
7.	P. Szolcsányi, T. Gracza, I. Špánik: „PdCl2/CuCl2-catalysed chlorocyclisation of sugar/derived aminoalkenitols in the synthesis of new iminohexitols.“, Tetrahedron Letters, 49, 1357-1360 (2008)
8.	P. Szolcsányi, T. Gracza, I. Špánik: „PdCl2/CuCl2-catalysed chlorocyclisation of sugar/derived aminoalkenitols in the synthesis of new iminohexitols.“, Tetrahedron Letters, 49, 1357-1360 (2008)
9.	A. Janáčová, J. Sádecká, Z.Kohajdová, I. Špánik: „The identification of aroma active compounds in Slovak brandy using GC-Sniffing technique, GC-MS and sensory evaluation.“, Chroamtogarphia, 67, S113-S121 (2008)
10.	P. Kooš, I. Špánik, Gracza T.: "Asymmetric intramolecular Pd(II)-catalysed amidocarbonylation of unsaturated amino alcohols", Tetrahedron - assymetry, 20 (23), 2720-2723 (2009)P

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

Quotation total :	197			
Total of SCI(SSCI) list papers :	30			
Current projects :	Domestic :	0	International :	3

Science, arts and professional qualifications

Name and last name:	Štajner-Papuga V. Ivana
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad 19.12.1996
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2007	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	2001	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1996	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.	D0M21	Fuzzy Systems and Their Applications	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	E. Pap, I. Štajner, Generalized Pseudo-Convolution in the Theory of Probabilistic Metric Spaces, Information, Fuzzy Numbers, Optimization, System Theory, Fuzzy Sets and Systems 102 (1998) 393-415
2.	E. Pap, I. Štajner, Pseudo-convolution based on idempotent peration as limit of g-convolution, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 7, No. 6 (1999) 615-629.
3.	E. Pap, I. Štajner-Papuga, Pseudo-integral based on non-associative and non-commutative pseudo-addition and pseudo-multiplication, Int. Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 9, No. 2 (2001) 159-167
4.	I. Šajner-Papuga, Henstock-Kurzweil type integral based on generalized g semiring, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Vol. 10, Suppl. (2002), 89-104.
5.	E. Pap, I. Štajner-Papuga, A limit theorem for triangle functions, Fuzzy Sets and Systems 157 (2006) 292-307
6.	D. Vivona, M. Divari, I. Štajner-Papuga, On the generated hsB-type equation and PLSP, JMAA 386 (2012) 948-955.
7.	T. Grbić, I. Štajner-Papuga, M. Štrboja, an approach to pseudo-integration of set-valued functions, Information Sciences 181 (2011), 2278-2292.
8.	I. Štajner-Papuga, T. Grbić, M. Dankova, Pseudo-Riemann-Stieltjes integral, Information Sciences 179 (2009) 2923-2933.
9.	Mirjana Štrboja, Tatjana Grbić, Ivana Štajner-Papuga, Gabrijela Grujić, Slavica Medić, Jensen and Chebyshev inequalities for pseudo-integrals of set-valued functions Original Research Article, Fuzzy Sets and Systems, http://dx.doi.org/10.1016/j.fss.2012.07.011
10.	D. Vivona, I. Štajner-Papuga, Pseudo-linear superposition principle for the Monge-Ampere equation based on generated pseudo-operations, JMAA 341 (2008) 1427-1437

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	10			
Current projects :	Domestic :	2	International :	0

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 carieer	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 refferences (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_zgdzkj-e200904020.aspx

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

Quotation total :	0

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

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

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 refferences (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

Science, arts and professional qualifications

Name and last name:	Trpovski V. Željen
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.02.1985
Scientific or art field:	Telecommunications and Signal Processing

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
PhD thesis	1998	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing
Magister thesis	1991	School of Electrical Engineering - Beograd	Telecommunications and Signal Processing
Bachelor's thesis	1981	Faculty of Technical Sciences - Novi Sad	Telecommunications and Signal Processing

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

	ID	Course name	Study programme name, study type
1.	EK310	Introduction to Information Theory	(BM0) Biomedical Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	EK435	Optical Communications	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
3.	EK201	Signals and Systems	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
4.	EK451	Audio and Video Technologies	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
5.	ETI08	Telecommunication systems and signals	(E02) Electronics and Telecommunications, Undergraduate Professional Studies
6.	S1215P	Analysis of Telecommunication signals	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
7.	S1220P	Analysis of Telecommunication Systems	(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies
8.	DE110S	Stochastic Processes in Telecommunications	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
9.	DE412S	Digital image processing algorithms	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies
10.	E1SO01	Modern technologies in electrical engineering	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies
11.	EK521	Information and Communication Theory	(S01) Postal Traffic and Telecommunications, Master Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
12.	DE110	Stochastic Processes in Telecommunications	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
13.	DE412	Digital Image Processing Algorithms	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Ispitivanje statističkih osobina digitalnog prenosa u UKT FM radio difuziji primenom sistema RDS
2.	Uniformne i neuniformne filtar banke i njihova primena u kompresiji signala slike
3.	Ž.Trpovski, "Reliability Testing Method for RDS Based on the PI Code Statistics", IEEE Trans. on Consumer Electronics, Vol.37, No.4, November 1991., pp. 884-891.
4.	Ž.Trpovski, "Contribution to window design for modulated lapped transforms", Electronics Letters, Vo.33, No. 24, November 1997, pp.2013-2014.
5.	Vesna Zeljković, A. Dorado, Ž. Trpovski, E. Izquierdo, "Classification of Building Images in Video Sequences", IEE Electronics Letters, Vol. 40, No. 3, 5th February 2004, pp. 169-170.

Representative refferences (minimum 5, not more than 10)

6.	V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, Vol.11, No. 7, July 2004, pp.589-592.
7.	M.Temerinac, A.Kozarev, Z.Trpovski, B.Šimšić, An Efficient Image Compression Algorithm Based on Filter Bank Analysis and Fractal Theory, Proc. of EUSIPCO-92, Sixth European Signal Processing Conference, Brussels, Vol.III, pp.1373-1376.
8.	J.Knezevic, V.Katic, Z.Trpovski, D.Graovac: "Modulated Lapped Transforms Filter Bank Technique Application For AC/DC Converter Power Quality Analysis", Power Quality Conference - PCIM-PQ 2000, Nuremberg (Germany), June 2000, published on CD-ROM.
9.	T.Lončar-Turukalo, V.Crnojević, Ž.Trpovski, Image Compression by Decomposition into Bit Planes, 5th International Conference on Telecommunications in Modern Satelite, Cable and Broadcasting Services, TELSIKS 2001, Niš.
10.	V.Zeljković, Ž.Trpovski, V.Šenk, Improved Illumination Independent Moving Object Detection in Real World Video Sequences, 4th International Conference on Video-Image Processing and Multimedia Communications, Zagreb, Croatia, July 2003.

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

Quotation total :	14			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	1

Science, arts and professional qualifications

Name and last name:	Turk-Sekulić M. Maja
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	28.12.2004
Scientific or art field:	Environment Protection Engineering

Academic carieer	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	Chemical, Physical and Biological principles in Environment Protection Engineering
Magister thesis	2006	University of Novi Sad - Novi Sad	Chemical, Physical and Biological principles in Environment Protection Engineering
Bachelor's thesis	2003	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.	URZP61	Fundamentals of the Burning Processes Theory	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
2.	Z102	Technical Chemistry	(Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z109	Chemical Principles in Environmental Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z305	Data Analysis of Environmental Condition	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z305A	Environmental data analysis	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	Z102	Tehnička hemija(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	Z109	Hemijski principi u inženjerstvu zaštite životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	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
9.	Z153	Chemistry in Engineering	(Z01) Safety at Work, Undergraduate Academic Studies
10.	Z155	Chemical Principles in Engineering	(Z01) Safety at Work, Undergraduate Academic Studies
11.	Z600	Chemical Phenomena in Engineering	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
12.	Z503	Practical Course in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
13.	Z507	Physical and Chemical Principles	(Z20) Environmental Engineering, Master Academic Studies
14.	ZR504	Protection against Chemical Harms, Fire and Explosion	(OM1) Mathematics in 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 engledskom), Master Academic Studies
17.	SZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Specialised Academic Studies
18.	SZSP09	Remediation of contaminated locations	(Z00) Environmental Engineering, Specialised Academic Studies
19.	SZSP17	Savremene instrumentalne metode analize zagađujućih supstanci u životnoj sredini	(Z00) Environmental Engineering, Specialised Academic Studies
20.	ZR504A	Chemical risk assessment of fire and explosion	(Z01) Safety at Work, Master Academic Studies

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

	ID	Course name	Study programme name, study type
21.	ZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Doctoral Academic Studies
22.	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 refferences (minimum 5, not more than 10)

1.	Turk, M., 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 (ECL) Journal, 2007, Vol. 5, str. 109- 113.
2.	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
3.	Radonić, J., Turk, M., Vojinović Miloradov, M., Klánová, 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.
4.	Turk Sekulić Maja, Rasprostiranje, depozicija i raspodela polihlorovanih bifenila u heterogenom multikomponentnom sistemu, doktorska disertacija.
5.	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
6.	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
7.	Radonić (Jakšić) J., Ćulibrk 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
8.	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
9.	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
10.	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

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	8			
Current projects :	Domestic :	2	International :	3

Science, arts and professional qualifications

Name and last name:	Ubavin M. Dejan
Academic title:	Assistant Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.08.2005
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	2012	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Magister thesis	2008	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Bachelor's thesis	2004	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering

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

	ID	Course name	Study programme name, study type
1.	Z205	Sustainable Use of Natural Resources and Environmental Protection System	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies (Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
2.	Z309A	Solid Waste Management	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z401A	Design and Planning in Environmental Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z401B	Design and Planning in Environmental Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
5.	Z409A	Hazardous Waste Management and Recycling Technologies	(Z20) Environmental Engineering, Undergraduate Academic Studies
6.	Z414	Contemporary Methods of Soil Remediation	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	OAS214	Integralni katastar zagađivača(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z309A	Upravljanje čvrstim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	M3202	Identification and reduction of pollution from industry	(M30) Energy and Process Engineering, Undergraduate Academic Studies
10.	ZC047	Waste to energy tehnologies	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
11.	Z452	Design and maintenance of quality control in environmental engineering	(M40) Technical Mechanics and Technical Design, Master Academic Studies
12.	Z508	Specific Design Conditions in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
13.	Z511	Institutional Framework for Accidental Risk Management	(Z20) Environmental Engineering, Master Academic Studies
14.	ZR501	Hazardous Materials and Hazardous Waste	(Z01) Safety at Work, Master Academic Studies
15.	ZR502	Occupational Risk Assessment	(Z01) Safety at Work, Master Academic Studies
16.	Z508	Specifični uslovi projektovanja u zaštiti životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
17.	Z511	Institucionalni okviri upravljanja akcidentnim rizicima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
18.	GH508	Landfill desing and municipal waste treatmant systems	(G00) Civil Engineering, Master Academic Studies
19.	MPK027	Management of environmental facilities	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
20.	SZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(Z00) Environmental Engineering, Specialised Academic Studies
21.	ZD052	Efficient Use of Natural Resources and Low-Carbon Development	(Z00) Environmental Engineering, Doctoral Academic Studies
22.	ZDI23	Material Flow Analysis in Urban Systems	(Z00) Environmental Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
23.	ZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
24.	ZRD213	Current state and development tendencies of quality management of work environment	(Z01) Safety at Work, Doctoral Academic Studies
25.	ZRD231	Economic implication of occupational health and safety projects implementation	(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Stanisavljević N., Ubavin D., Batinić B., Fellner J., Vujić G.: Methane emissions from landfills in Serbia and potential mitigation strategies: a case study, WASTE MANAGE RES, 2012, ISSN 0734-242X
2.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456
3.	Vujić G., Jovičić N., Maja Đ., Ubavin D., Nakomčić Smaragdakis B., Gordana J., Dušan G.: INFLUENCE OF AMBIENCE TEMPERATURE AND OPERATIONAL - CONSTRUCTIVE PARAMETERS ON LANDFILL GAS GENERATION - CASE STUDY NOVI SAD, Thermal Science - International Scientific Journal, 2010, Vol. 14, No 2, pp. 555-564, ISSN 0354-9836, UDK: 547.211:631.41
4.	Vujić B., Milovanović D., Ubavin D.: Analiza koncentracionih nivoa čestičnih materija (PM10, ukupnih suspendovanih čestica i čađi) u Zrenjaninu, Hemijska industrija, 2010, Vol. 64, No 5, pp. 453-458, ISSN 0367-598X
5.	Landfill gas modelling and risk assessment in the purpose of the good managing in municipal landfill of Novi Sad - CHISA 2004, 16th International Congress of Chemical and Process Engineering, Prague, Czech Republic, August 2004
6.	Analysis of location for building objects; - Sixth International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe and the Commonwealth of Independent States (Prague 2003), Czech Republic, September 2003
7.	Vujić, G. Batinić, B. Ubavin, D. Stanisavljević. N., Analysis of municipal waste content & waste amount as the basis for the new waste management policy in Vojvodina, Serbia, ISWA/WMRAS World Congress, Singapore: ISWA, 03. - 06. Novembar, 2008.
8.	Ubavin D., Vujić G., Stanisavljević N., Batinić B., Mirosavljević Z.: National Methane Emissions from Waste Disposal Sites in Serbia, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, pp. 1279-1287, ISBN 978-88-907694-2-9
9.	Stanisavljević N., Jokanović S., Batinić B., Ubavin D., Vujić G.: Evaluation of Different Waste Management Options for South East Europe, Exemplified for The City of Novi Sad, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, pp. 1266-1272, ISBN 978-88-907694-2-9
10.	Batinić B., Ubavin D., Stanisavljević N., Vujić G., Tot B.: Analysis of relation between socioeconomic factors and MSW practice using ANN models, 1. The ISWA 2012 World Solid Waste Congress, Florence: ISWA, 17-19 Septembar, 2012, ISBN 978-88-907694-2-9

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

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

Science, arts and professional qualifications

Name and last name:	Urošević -. Dragan
Academic title:	Senior Science Associate
Name of the institution where the teacher works full time and starting date:	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd
	01.08.1993
Scientific or art field:	Applied Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	2008	Mathematical Institute - Serbian Academy of Sciences and Arts - Beograd	Applied Mathematics
PhD thesis	2004	Faculty of Mathematics - Beograd	Applied Mathematics
Magister thesis	1994	Faculty of Mathematics - Beograd	Computer Science
Bachelor's thesis	1987	Faculty of Mathematics - Beograd	Mathematics

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

	ID	Course name	Study programme name, study type
1.	D0M31	Applied Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	D0M32	Combinatorial and Geometric Algorithms	(OM1) Mathematics in Engineering, Doctoral Academic Studies
3.	D0M39	Optimization Methods and Mathematical Modelling	(OM1) Mathematics in Engineering, Doctoral Academic Studies
4.	DMUT02	Parallel Computing	(OM1) Mathematics in Engineering, Doctoral Academic Studies
5.	DOM42	Metaheuristic Methods	(OM1) Mathematics in Engineering, Doctoral Academic Studies
6.	DOM46	Computational Complexity Theory	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Jack Brimberg, Nenad Mladenovic, Dragan Urosevic: Local and variable neighborhood search for the k -cardinality subgraph problem. J. Heuristics 14(5): 501-517 (2008)
2.	Jack Brimberg, Dragan Urosevic, Nenad Mladenovic: Variable neighborhood search for the vertex weighted k. European Journal of Operational Research 171(1): 74-84 (2006)
3.	Pierre Hansen, Nenad Mladenovic, Dragan Urosevic: Variable neighborhood search and local branching. Computers & OR 33(10): 3034-3045 (2006)
4.	Nenad Mladenovic, Frank Plastria, Dragan Urosevic: Reformulation descent applied to circle packing problems. Computers & OR 32: 2419-2434 (2005)
5.	Dragan Urosevic, Jack Brimberg, Nenad Mladenovic: Variable neighborhood decomposition search for the edge weighted k-cardinality tree problem. Computers & OR 31(8): 1205-1213 (2004)
6.	Pierre Hansen, Nenad Mladenovic, Dragan Urosevic: Variable neighborhood search for the maximum clique. Discrete Applied Mathematics 145(1): 117-125 (2004)
7.	Nenad Mladenovic, Frank Plastria, Dragan Urosevic: Formulation Space Search for Circle Packing Problems. SLS 2007, Lecture Notes in Computer Science 4638/2007: 212-216
8.	Brimberg J, Hansen P, Laporte G, Mladenovic N and Urosevic D. The maximum return-on-investment plant location problem with market share, J of Operational Research Society 59 (2008) 399-406.
9.	Hansen P, Brimberg J, Urosević D and Mladenović N. Primal-dual variable neighborhood for the simple plant location problem, INFORMS J on Computing 19 (2007) 552-564.
10.	Zoran Ognjanovic, Dragan Urosevic, Tatjana Petrovic, Zorana Ristovic: A Tableaux Retlated Method for Modal Theorem Proving (Extended Abstract). TABLEAUX 1992: 61-63

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

Quotation total :	300			
Total of SCI(SSCI) list papers :	25			
Current projects :	Domestic :	2	International :	0

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.	0M518	Numerical Solutions of Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
8.	0ML518	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

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 refferences (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.	Cvetićanin, 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 Caracteristics of Women Managers and a New Style of Leadedrship, Proceedings of IC-Congress, Haarlem, The Netherlands, 3-4. May 2007
10.	Dj. Ćelić, Z. Uzelac, Vrednosne mreže, Zborniki radova XIII Medjunarodna konferncija 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

Science, arts and professional qualifications

Name and last name:	Veselinov V. Branislav
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.08.1974
Scientific or art field:	Biosystems Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Magister thesis	1989	Faculty of Technical Sciences - Novi Sad	Biosystems Engineering
Bachelor's thesis	1973	Faculty of Mechanical Engineering - Novi Sad	Internal Combustion Engines

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

	ID	Course name	Study programme name, study type
1.	M2407	Biosystem Machines 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies
2.	M304	Biosystem Machines 1	(H00) Mechatronics, Undergraduate Academic Studies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
3.	URZP54	Devices in the Process Industry	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	Z475A	Environmental engineering in biosystems	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z476	Energy and renewable energy sources in rural areas	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
6.	ZRI421	Occupational Safety in Agriculture and Forestry	(Z01) Safety at Work, Undergraduate Academic Studies
7.	Z475	Inženjerstvo zaštite životne sredine u biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z476	Energija i obnovljivi izvori energije u ruralnim oblastima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	H2405	IT in Biosystems	(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies
10.	M2651	Tractors	(M22) Mechanization and Construction Engineering, Master Academic Studies
11.	M2652	Agricultural machinery for renewable energy sources	(M22) Mechanization and Construction Engineering, Master Academic Studies
12.	Z477	Sustainable Agriculture Engineering	(Z20) Environmental Engineering, Master Academic Studies
13.	Z478A	Information technology support sustainable biosystems	(Z20) Environmental Engineering, Master Academic Studies
14.	Z477	Inženjerstvo održive poljoprivrede(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	Z478	Informaciono-tehnološka podrška održivom razvoju biosistema(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	SZSP14	Contemporary approach to the biosystems engineering	(Z00) Environmental Engineering, Specialised Academic Studies
17.	SZSP16	Engineering of renewable enery sources in agriculture	(Z00) Environmental Engineering, Specialised Academic Studies
18.	DOM24	Procedure and Machines for Sustainable Agriculture	(M00) Mechanical Engineering, Doctoral Academic Studies
19.	ZSP14	Contemporary Approaches to Sustainable Engineering Biosystems	(Z00) Environmental Engineering, Doctoral Academic Studies
20.	ZSP16	Engineering of Renewable Energy in Agriculture	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Representative refferences (minimum 5, not more than 10)

1.	Veselinov, B.: Prilog razvoju sistema za presovanje vlaknastih biomaterijala kod presa za valjkaste bale sa promenljivom zapreminom komore za presovanje, Fakultet tehničkih nauka, Novi sad, Magistarski rad, 1989, 98 strana
2.	Veselinov, B.: Uticaj raznih postupaka mehaničkog usitnjavanja suve pitome nane na kvalitet dobijene biljne sirovine, Fakultet tehničkih nauka, Novi Sad, Doktorska disertacija, 2003, 110 strana
3.	Martinov, M., Veselinov, B., Bojić, S. 2007. Maize Cobs Processor – Preparations for its use as a Fuel. 11-th International Research/Expert Conference »Trends in the Development of Machinery and Associated Technology« TMT 2007, Hammamet, Tunisia, 05-09 Septembar, 1167-1170
4.	Martinov, M., Adamović, D., Veselinov, B., Mujić, I., Bojić, S. 2008. Fazno sušenje lekovitog bilja u šaržnoj sušari. Savremena poljoprivredna tehnika, 34(1-2), 1-12. (ISSN 0350-2953)
5.	Martinov, M., Veselinov, B., Bojić, S. 2008. Drobljenje oklasaka kukuruza – priprema za korišćenje kao gorivo. Savremena poljoprivredna tehnika, 34(1-2), 26-31
6.	Veselinov, B., Adamović, D., Martinov, M. 2008. Istraživanje mogućnosti mehanizovanog branja cvasti nevena, Bilten za hmelj, sirak i lekovito bilje, Institut za ratarstvo i povrtarstvo Novi Sad, 40(81), 22-33
7.	Martinov, M, Veselinov, B. 2009. Stanje u oblasti poljoprivrednog inženjerstva – Akcenti Konferencije VDI-MEG LAND-TECHNIK 2008. Savremena poljoprivredna tehnika, 35(3), 157-168. (ISSN 0350-2953)
8.	Martinov, M., Adamović, D., Veselinov, B., Matavuly, M., Bojic, S. and I. Mujic. 2008.Practice oriented investigation of chamomile and peppermint drying in batch dryer. 36. International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering, Opatija, 11-15 February 2008, Book of Proc, 479-490. ISSN1533-2651
9.	Martinov M, Bojic S, Golub M, Veselinov B. 2012. Practice oriented investigation of hull-less oil pumpkin seeds, Cucurbita pepo L., drying in batch dryers. 7th Conference of Medicinal and Aromatic Plants of Southeastern European Countries. Subotica 27th-31st of Mai 2012, CD of Proc. 241-247. ISBN: 978-86-83-141-16-6
10.	Martinov M, Golub M, Djordje Dj, Bojic S, Veselinov B. 2012. Total and available yield of soybean residues. 4th International Scientific and Expert Conference TEAM 2012 Technique, Education, Agriculture & Management. Slavonski Brod, 17th to 19th October 2012, CD of proc. 307-310. ISSN 1847-9065

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

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

Science, arts and professional qualifications

Name and last name:	Vidaković P. Milan
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.01.1998
Scientific or art field:	Applied Computer Science and Informatics

Academic carieer	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
PhD thesis	2003	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Magister thesis	1998	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics
Bachelor's thesis	1995	Faculty of Technical Sciences - Novi Sad	Applied Computer Science and Informatics

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

	ID	Course name	Study programme name, study type
1.	E239A	Web Programming	(E20) Computing and Control Engineering, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E2K41	Distributed Artificial Intelligence and Intelligent Agents	(E20) Computing and Control Engineering, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
3.	F501	WEB Design	(F00) Graphic Engineering and Design, Undergraduate Academic Studies (F10) Engineering Animation, Undergraduate Academic Studies
4.	GI211	Geoinformatics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI111	Information technologies in geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	SE0006	Object oriented programming 1	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
7.	SE239A	Web programming	(P00) Production Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
8.	E2501	Electronic Payment Systems	(E20) Computing and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologies, Master Academic Studies
9.	EP007	Document and content management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
10.	AD0008	Web design in Architecture	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies
11.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies

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

	ID	Course name	Study programme name, study type
12.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies
13.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies
14.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
15.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing	(E20) Computing and Control Engineering, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vidaković, M., Milosavljević, B., "Internationalisation of the BISIS Library Information System", Proceedings of the 28th International Unicode Conference, Orlando, USA, September 7-9, 2005.
2.	Vidaković, M., Sladić, G., Zarić, M., "Metadata Harvesting Using Agent Technology", Proceedings of the 8th IASTED International Conference on Software Engineering and Applications (SEA 2004), Cambridge, USA, November 9-11, 2004., pp. 489-493
3.	Vidaković M., Sladić G., Komazec S., "Sistemi za upravljanje elektronskim sadržajima i njihova promena u eUpravi", Info M: časopis za informacione tehnologije i multimedijalne sisteme, 2006., pp. 36-41, ISSN 1451-4397
4.	Vidaković, M., Zubić, T., Milosavljević, B., Pupovac, B., Tošić, T., "Processing Bibliographic Documents in the Library Inforation System BISIS", Proceedings of the International Conference on Distributed LibraryInformation Systems, Ohrid, Former Yugoslav Republic of Macedonia, June 1-6, 2004., pp. 65-91.
5.	Vidaković, M., Sladić, G., Konjović, Z., "Security Management In J2EE Based Intelligent Agent Framework", Proceedings of the 7th IASTED International Conference on Software Engineering and Applications (SEA 2003), Marina Del Rey, USA, November 3-5, 2003., pp. 128-133.
6.	Milosavljević B., Vidaković M., Komazec S. and Milosavljević G., "User Interface Code Generation for Data-Intensive Systems with EJB-based Data Models", In Software Engineering Research and Practice, Las Vegas, NV, USA, 2003.
7.	Vidaković, M., Konjović, Z., "EJB Based Intelligent Agents Framework", Proceedings of the 6th IASTED International Conference on Software Engineering and Applications (SEA 2002), Cambridge, USA, November 4-6, 2002., pp. 343-348.
8.	Vidaković M., "Agentska okruženja", Zadužbina Andrejević. Beograd, 2007, ISBN: 9-788672-446210
9.	Milosavljević B., Vidaković M., Java i Internet programiranje, FTN izdavaštvo, 2007., ISBN 978-86-7892-047-9
10.	Okanović D., Vidaković M., „Upotreba JMX mlet servisa za ažuriranje verzija aplikacija“, Zbornik radova YuInfo 2007 (CD), Kopaonik 2007.

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

Quotation total :	119			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	1	International :	0

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 carieer	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

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 refferences (minimum 5, not more than 10)

1.	Essa K., Kačmarčik 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., Konjovoć Z., Vilotić M.: An Improved Experimental Method for Detrmining 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., Esssa 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., Kačmarčik 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. 306-3090, 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

Science, arts and professional qualifications

Name and last name:	Vojinović-Miloradov B. Mirjana
Academic title:	Emeritus Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	01.01.2000
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	1976	Faculty of Technology - Novi Sad	Technological Engineering
Magister thesis	1971	Faculty of Technology - Novi Sad	Technological Engineering
Bachelor's thesis	1963	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.	Z503	Practical Course in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
2.	Z507	Physical and Chemical Principles	(Z20) Environmental Engineering, Master Academic Studies
3.	Z510	Accidental Risk Management and the Environment	(OM1) Mathematics in Engineering, Master Academic Studies (Z01) Safety at Work, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
4.	ZR504	Protection against Chemical Harms, Fire and Explosion	(OM1) Mathematics in Engineering, Master Academic Studies
5.	Z507	Fizičko hemijski principi(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
6.	IM2819	Industrial eco-marketing	(I20) Engineering Management, Master Academic Studies
7.	IMDS82	Industrial eco-marketing management	(I22) Engineering Management, Specialised Academic Studies
8.	MPK005	Analysis of environmental protection systems	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
9.	SZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Specialised Academic Studies
10.	SZDO03	Applied Analysis of Physical and Chemical Parameters	(Z00) Environmental Engineering, Specialised Academic Studies
11.	SZSP09	Remediation of contaminated locations	(Z00) Environmental Engineering, Specialised Academic Studies
12.	ZR504A	Chemical risk assessment of fire and explosion	(Z01) Safety at Work, Master Academic Studies
13.	ZD050	Transport and distribution of pollutants in heterogeneous multicomponent systems	(Z00) Environmental Engineering, Doctoral Academic Studies
14.	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
15.	ZSP09	Remediation of Contaminated Sites	(Z00) Environmental Engineering, Doctoral Academic Studies
16.	IMDR82	Industrial eco-marketing management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Sonja Kaišarević, Nebojša Andrić, Stanka Bobić, Jelena Tričković, Ivana Teodorović, Mirjana Vojinović-Miloradov, Radmila Z. Kovačević, Detection of Dioxin-like Contaminants in Soil from the Area of Oil Refineries in Vojvodina Region of Serbia, Bulletin of Environmental Contamination and Toxicology (2007), online, 10.1007/s00128-007-9241-4
2.	S. Pavkov, M. Vojinović, D. Buzarov, RESIDUES OF PERSISTENT ORGANOCHLORINE COMPOUNDS IN SELECTED AQUATIC ECOSYSTEMS OF VOJVODINA, Wat. Sci. Tech., 22(5), 107-111 (1990)
3.	M. Vojinović-Miloradov, P. Marjanović, D. Buzarov, S. Pavkov, L. Dimitrijević, M. Miloradov, BIOACCUMULATION OF POLYCHLORINATED BIPHENYLS AND ORGANOCHLORINE PESTICIDES IN SELECTED FISH SPECIES AS AN INDICATOR OF THE POLLUTION OF AQUATIC RESOURCES IN VOJVODINA, YUGOSLAVIA, Wat. Sci. Tech., 26(9-11), 2361-2364 (1992)
4.	Turk M, 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, Environ Chem Lett (2007), 5:109-113

Representative refferences (minimum 5, not more than 10)

5.	B.Škrbić, M.Vojinović-Miloradov, A CONTIBUTION TO THE QUALITATIVE GC ANALYSIS OF SOME NON-CHLORINATED XENOBIOTIC CHEMICALS IN WASTE WATERS, Wat.Sci.Tech., 30 (3) 91-93, 1994
6.	Kovačević R., Vojnović-Miloradov M., Teodorović I. and Andrić S. EFFECT OF PCBs ON ANDROGEN PRODUCTION BY SUSPENSION OF ADULT RAT LEYDIG CELLS in vitro. J Steroid Bioch Mol Biol .52(6): 595-597 (1995)
7.	Miloradov M., Jakšić J., Turk M., Popov S., Vojinović-Miloradov M.: Integralni katastar - harmonizacija zakonske regulative sa EU zakonodavstvom, rad po pozivu, 33. nacionalna konferencija o kvalitetu, zbornik radova, ISBN 86-80581-86-0, maj 2006., str. B-45 - B-48
8.	Vojinović Miloradov M., Chriastel R.,Miloradov M., Jakšić J., Turk M.,: Joint project Serbia and Slovakia on the institutional support of integrated water pollution control, 1. međunarodni kongres ,,Ekologija, zdravlje, rad, sport"", Zbornik apstrakata, Banja Luka, jun 2006., str. 66-67.
9.	Mlić N., Milanović M., Grujić Letić N.,Turk Sekulić M., Radonić (Jakšić) J., Mhajlović 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
10.	Grujić Letić N., Mlić N., Turk Sekulić M., Radonić (Jakšić) J., Milanović M., Mhajlović 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

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

Quotation total :	120			
Total of SCI(SSCI) list papers :	25			
Current projects :	Domestic :	3	International :	3

Science, arts and professional qualifications

Name and last name:	Vojvodić D. Gradimir
Academic title:	Full Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Sciences - Novi Sad 01.10.2000
Scientific or art field:	Mathematics

Academic carieer	Year	Institution	Field
Academic title election:	1989	Faculty of Sciences - Novi Sad	Mathematics
PhD thesis	1979	Faculty of Mathematics - Beograd	Mathematics
Bachelor's thesis	1971	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.	D0M08	Applied Abstract Algebra	(OM1) Mathematics in Engineering, Doctoral Academic Studies
2.	D0M22	Multiple-Valued Logic	(OM1) Mathematics in Engineering, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Bošnjak, I., Madarasz, R., Vojvodić, G., Algebras of fuzzy sets, Fuzzy Sets and Systems 160, 2009, pp 2979-2989.
2.	Vojvodić, G., Šešelja, B., On the lattice of weak congruence relations, Algebra Universalis 25, 1988, pp 121-130.
3.	Pantović, J., Tošić, R., Vojvodić, G., The cardinality of functionally complete algebras on a three element set, Algebra Universalis 37, 1997, pp 136-140.
4.	Pantović, J., Tošić, R., Vojvodić, G.: Relative completeness with respect to two unary functions, Discrete Applied Mathematics, 2001, Vol. 113, No. 2-3, 337-342.
5.	Doroslovački, R., Pantović, J., Vojvodić, G.: One Interval in the Lattice of Hyperclones. Czechoslovak Mathematical Journal, 2005, Vol. 55 (130), No. 3, 719-724.
6.	Pantovic, J., Rodic, B., Vojvodic G.: Unary Minimal Partial Hyperclones, Journal of Multiple Valued Logic and Soft Computing, Vol. 12, No. 5-6, 2006, 451-458.
7.	Vojvodić, G., Some theorems for modal theory of mixed valued predicate calculi, Punbli. inst.math. 23 (37), 1978, pp 229-234.
8.	Čupona, G., Vojvodić, G., Crvenković, S., Subalgebras of semilattices, Zbornik radova Pmf, Novi Sad, 10, 1980, pp 191-195.
9.	Vojvodić, G., Šešelja, B., A note on modularity of the lattice of weak congruence on a finite group, Contributions to General Algebra 5, Proceedings of Salzburg Conference, 1986, pp 415-419.
10.	Pantovic, J., Vojvodic, G.: Minimal partial hyperclones on a two-element set, IEEE PRoceedings of 34th Symposium on Multiple-Valued Logic, ISMVL 2004, 115-119.

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

Quotation total :	31			
Total of SCI(SSCI) list papers :	7			
Current projects :	Domestic :	2	International :	0

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 carieer	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 (GI0) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Milica Vučinić-Vasić, Divko Ćirić, 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

Representative refferences (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 didtribution, 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., Dohcević-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

Science, arts and professional qualifications

Name and last name:	Vujić V. Goran
Academic title:	Associate Professor
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad
	20.02.1999
Scientific or art field:	Environment Protection Engineering

Academic carieer	Year	Institution	Field
Academic title election:	2012		Environment Protection Engineering
PhD thesis	2007	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Magister thesis	2003	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
Bachelor's thesis	1998	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	E0S42	Renewable sources and environmental protection	(E01) Power Engineering - Renewble Sources of Electrical Energy, Undergraduate Professional Studies
2.	Z204A	Monitoring of the Living Environment	(Z01) Safety at Work, Undergraduate Academic Studies (ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
3.	Z309A	Solid Waste Management	(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies
4.	Z401A	Design and Planning in Environmental Protection	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z401B	Design and Planning in Environmental Engineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
6.	Z409A	Hazardous Waste Management and Recycling Technologies	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	OAS214	Integralni katastar zagađivača(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z101	Uvod i principi zaštite okruženja(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
9.	Z205	Održivo korišćenje prirodnih resursa i sistem zaštite životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	Z309A	Upravljanje čvrstim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z401A	Projektovanje i planiranje u zaštiti životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	Z409A	Upravljanje opasnim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
13.	M3202	Identification and reduction of pollution from industry	(M30) Energy and Process Engineering, Undergraduate Academic Studies
14.	ZC047	Waste to energy tehnologies	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
15.	Z452	Design and maintenance of quality control in environmental engineering	(M40) Technical Mechanics and Technical Design, Master Academic Studies
16.	Z508	Specific Design Conditions in Environment Protection	(Z20) Environmental Engineering, Master Academic Studies
17.	Z511	Institutional Framework for Accidental Risk Management	(Z20) Environmental Engineering, Master Academic Studies
18.	ZR501	Hazardous Materials and Hazardous Waste	(Z01) Safety at Work, Master Academic Studies
19.	Z508	Specifični uslovi projektovanja u zaštiti životne sredine(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
20.	GH508	Landfill desing and municipal waste treatmant systems	(G00) Civil Engineering, Master Academic Studies
21.	MPK012	Solid waste management	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
22.	MPK014	Monitoring and system control	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies
23.	PIP16	Plastics and environmental protection	(PM0) Production Engineering, Master Academic Studies

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

	ID	Course name	Study programme name, study type
24.	SZD042	Models of economic evaluation of environmental projects	(Z00) Environmental Engineering, Specialised Academic Studies
25.	SZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Specialised Academic Studies
26.	SZDI23	Material Flow Analysis in Urban Systems	(Z00) Environmental Engineering, Specialised Academic Studies
27.	SZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(Z00) Environmental Engineering, Specialised Academic Studies
28.	ZCM06	Security of strategic energy facilities	(ZC0) Clean Energy Technologies, Master Academic Studies
29.	ZD051	Applications of optimal control theory in living environment protection	(Z00) Environmental Engineering, Doctoral Academic Studies
30.	ZDI23	Material Flow Analysis in Urban Systems	(Z00) Environmental Engineering, Doctoral Academic Studies
31.	ZDO42	Models of Economic Evaluation of Projects for Environment Protection	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies
32.	ZSP20	Systemic Regulation of Environment	(G00) Civil Engineering, Doctoral Academic Studies
33.	ZSP21	Design and Planning Processes to Minimize Waste and Hazardous Materials	(OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

1.	Vujić, G., Pešenjanski, I.: Combustion chamber for stawn bals, Fifth International Symposium and Exhibition on Environmental Contamination in central and Eastern Europe, Prague 2000.
2.	Vujić, G., Marinić, I., Bašić, Đ.: Waste Separation and Recicling Methods, Which Are The Most Suitable For City of Novi Sad, Sixth International Symposium and Exhibition on Environmental Contamination in central and Eastern Europe, Prague 2003.
3.	Vujić, B., Vujić, G.: Environmental due diligence and its appliance in specific national environmental condition in Serbia&Montenegro, Sixth International Symposium and Exhibition on Environmental Contamination in central and Eastern Europe, Prague 2003.
4.	Jezdimirovic.I.A., Vujic,G., Mudric, J.: Special Conditions of Raw and Drinking Water management, Sixth International Symposium and Exhibition on Environmental Contamination in central and Eastern Europe, Prague 2003.
5.	Vujić, G., Bašić, Đ. Mihajlov, A.: Process of privatisation and environment in Serbia and Montenegro, PSU-UNS conference, HAT-YAI, Thailand, 16-18 december. 2003.
6.	Vujić, G., Vojinović-Miloradov M., Bašić, Đ., Vujić,B., Čabradi, G., Tomašević, B.: Landfill gas modelling and risk assessment in the purpose of the good managing in municipal landfill of Novi Sad, CHISA 2004, 22-26,08.2004.Prague, Czech Republic.
7.	Ubavin, D., Vujić, G., Bašić, Đ.:Landfill gas extraction and collection systems; PSU-UNS International Conference On Engineering And Environment - ICEE-2005, Novi Sad 19-21 May, 2005.
8.	Ubavin, D., Vujić, G., Mihajlov, A., Bašić, Đ.: Gas to energy opportunity on landfill in city of Novi Sad – Serbia and Montenegro D. Faculty of Technical Sciences, Novi Sad, Serbia and Montenegro, World Congress and Exhibition "ISWA 2005", November 6.-10. 2005. Buenos Aires, Argentina Ref No 194, Proceedings p.82
9.	Marjanović, D., Vujić, G , Mihajlović, V., Ubavin, D.: Selection of Technology and Public Opinion as Key Factors in Regional Landfill Location Selection, PSU-UNS International Conference on Engineering and Environment - ICEE-2007, Phuket May10-11, 2007. Proceedings CD ICCEE2007149
10.	Vujić, G , Mihajlović, V., Ubavin, D.: Possibilities for Landfill Gas Usage at Novi Sad Landfill, PSU-UNS International Conference on Engineering and Environment - ICEE-2007, Phuket May10-11, 2007. Proceedings CD ICEE2007150

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

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

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. Classes on the study programme Computing and Control Engineering are held in 2 shifts, so the minimum of 2 m2 of space is provided per student.

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 equipment based on contemporary information and communication technologies. Lectures are held in amphitheatres, 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.

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

Faculty enables 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.

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 defence of the Doctoral dissertation, each candidate is obliged to publish at least one paper in the magazine from the SCI list.