



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety



STUDY PROGRAMME ACCREDITATION MATERIAL:

DISASTER RISK MANAGEMENT AND FIRE SAFETY

MASTER ACADEMIC STUDIES

Novi Sad

2012.

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Programme name	Disaster Risk Management and Fire Safety
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Technical-Technological Science
Scientific, professional or art field	Environmental and Occupational Safety Engineering
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60-61
Academic degree, abbreviation	Master in Disaster Risk Management and Fire Safety, M.Dis.Ris.Managem.Fir.Saf.
Study length	1
Programme implementation starting year	2011
Future course implementation starting year (for new programme)	
Number of students attending this programme	14
Planned number of students to be enrolled in this programme	32
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2011
Web address containing programme information	http://www.ftn.uns.ac.rs



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Disaster Risk Management and Fire Safety

Standard 00. Introduction

The study programme of the graduate academic studies in Risk and Fire Protection Management presents the continuation of the undergraduate academic studies of Risk and Fire Protection Management at the Faculty of Technical Sciences, University of Novi Sad.

Engineering and technical disciplines are incorporated into the realization of the curriculum of the undergraduate and graduate academic studies of Risk and Fire Protection Management, thus representing a highly multidisciplinary and interdisciplinary programme. In the realization of the programme, curriculums in architecture, civil engineering, electrical engineering, mechanical engineering, management, design and in basic scientific disciplines of mathematics, chemistry, physics and others are studied, thus completing the multidisciplinary image of the study programme.

The Graduate Master Programme of Risk and Fire Protection Management should enable students within the elected study group to additionally generalize and widen their knowledge based on the understanding of the basic principles of different fields in the Risk and Fire Protection Management, to master additional professional knowledge for the realization of the contemporary technical systems, to acquire ability to integrate knowledge which is to be applied in each specific case and introduced in the research, individual and creative work during the realization of the study programme.



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Standard 01. Programme Structure

The name of the study programme is Risk and Fire Protection Management.

The acquired academic title is Master in Occupational Safety Engineering. The outcome of the studying process is the knowledge which enables students to use professional literature, apply knowledge to the problems which occur in the profession, and enables the continuation of the studies if students decide so. The study programme prerequisites for the enrolment are completed undergraduate studies with at least 240 ECTS and the passed enrolment examination.

The course consists of lectures and practice. During the teaching process, students are referred to the independent research and the emphasis is placed on his personal involvement in the teaching process. During the lectures theory is presented using the adequate didactic tools, but students are also presented with the research trends in the specific field. During practice, which accompanies lectures, students work on the specific designing problems or research topics dealing with the field of study, thus coming to direct contact with the matter being taught. Practice gives additional explanation of the matter being taught during the lectures. Practice may be auditory, laboratory, computer or computing. Part of the Practice may be carried out in the companies or other institutions.

Experimental laboratories for Safety at Work are equipped with necessary standard instruments (pH meter, conduct meter, calorimeter, automatic and analytical scales, automatic burettes and other small laboratory equipment) and highly sophisticated equipment such as: mobile gas chromatograph for the in-city quantification of pollutants. Student obligations during the Practice may include writing of the term papers and homework assignments, project assignments, term and graphic papers while each student activity during the teaching process is monitored and evaluated according to the rules adopted at the Faculty level. The number of obtained credits is presented according to the unique methodology and it represents the workload per student. Each course is worth certain number of ECTS credits, and the studies are completed when the student fulfils all obligations predicted by the study programme and collects at least 60 ECTS in the process.



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Standard 02. Programme Objectives

The purpose of the Study Programme is the education of students for the profession of Master in Risk and Fire Protection Management in accordance with the needs of society.

The Study Programme Risk and Fire Protection Management is designed to provide the acquisition of competences and qualifications that are socially justified and useful. Faculty of Technical Sciences defined tasks and goals for educating highly competent personnel in the field of industry, economy, profession, sciences and technical engineering development. The purpose of the Study Programme of Risk and Fire Protection Management is completely in accordance with the graduate objectives and goals of the Faculty of Technical Sciences.

Graduated engineers of Risk and Fire Protection Management– Masters are educated by realization of the study programme designed in this way and possess competences, comparability and competitiveness in the European and worldwide circles.



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Standard 03. Programme Goals

The objective of the study programme is to achieve student's scientific competencies and academic skills in the field of Risk and Fire Protection Management. By continuing undergraduate and doing additional basic scientific disciplines as well as additional professional courses of the Master degree, students are able to develop creative abilities in considering problems and the ability of critical thinking, the development of teamwork skills and the mastering of specific theoretical, as well as applicative skills.

The objective of the study programme is to educate an expert who possesses necessary knowledge in basic scientific disciplines (mathematics, physics, chemistry, mechanics, thermo dynamics and other sciences...) in order to create real images about processes happening in nature, the built environment, industrial systems and environment as well as in the classical and specialized engineering disciplines with an emphasis on the preventive measures while managing risks and fire protection during natural disasters in urban environment, in the processing industry, while manipulating dangerous materials...

One of the specific objectives which is in accordance with educational objectives of experts at the Faculty of Technical Sciences is to develop students' awareness of the need for permanent education, the sustainable development and the environmental protection. The objective of the study programme is to educate Masters for the teamwork, while developing the ability to represent scientific results to the professional and wider public, but also to create Masters able to be involved in the scientific research.



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Disaster Risk Management and Fire Safety

Standard 04. Graduates` Competencies

Graduate students of the graduate academic studies in Risk and Fire Protection Management are competent and qualified to solve complex, multidisciplinary problems in the theory and practice. The competences include, above all, the development of the ability for critical thinking, ability of problem analysis, solution synthesis, behaviour prediction of the chosen solution with the clear idea of good and bad sides of the chosen solution.

Qualifications that indicate the end of the graduate academic studies acquire students:

- who have demonstrated systematic knowledge and understanding in the field of risk and fire protection management that complements the knowledge gained at the undergraduate academic studies, being the basis for developing critical thinking and application of knowledge;
- who are able to apply knowledge in solving problems in the new or unknown environment;
- who have the ability to integrate knowledge, solve complex problems and make decisions based on the available information taking into consideration social and ethical responsibilities related to the application of their knowledge and judgements;
- who are able to clearly and unambiguously transfer knowledge and the way of making conclusions to the professional and wider public;
- who possess the ability to continue the studies in the way they independently choose.

When it comes to the specific capabilities of students, mastering the study programme of the graduate studies, the students acquires detailed knowledge and understanding of all disciplines of the chosen study group, as well as the ability for solving specific problems using the scientific methods and procedures. Graduated students of Risk and Fire Protection Management are able to adequately define and present results of their work by intensive use of information-communication technologies.

Graduated students from this level of study possess additional competences compared to the students at undergraduate studies, for the application of knowledge in the practice and anticipation and application of the novelties in practice.

Students are enabled to design projects, organize and manage risks and fire protection. During their education, students acquire knowledge to independently plan and carry out experiments of statistical data processing as well as to define and make adequate conclusions.

A student with master`s degree in Risk and Fire Protection Management acquires special competence to sustainably use and protect the natural resources of the Republic of Serbia in accordance with the principles of sustainable development.

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MASTER ACADEMIC STUDIES

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Standard 05. Curriculum

The curriculum of graduate academic studies in Risk and Fire Protection Management is designed for the purpose of achieving defined goals and competencies. The structure of the curriculum includes elective courses with at least 30% points.

Through elective courses, students meet their affinities profiled during undergraduate academic studies. Fundamental scientific disciplines, studied at this level, give the research character of the program, enabling even better understanding of complex processes in environment, with conditions for further scientific research of students. All courses last one semester and carry a certain number of points where one point corresponds to about 30 hours of student activities.

The curriculum includes the description of each course containing the name, type of article, year and semester, the number of ECTS credits, the name of the teacher, the course aims with expected outcomes, knowledge and competencies, prerequisites for attending the course, course content, recommended literature, methods of teaching, the way of knowledge testing and assessment and other data. The study program is consistent with European standards in terms of conditions of enrolment, duration of study, conditions of transition to the next year, graduation, and modes of study.

An integral part of the curriculum of Risk and Fire Protection Management is a professional practice and practical work of 45 hours, which is implemented in the relevant scientific research institutions, in organizations for innovation activities, in organizations which provide infrastructural support to innovation activities, in enterprises and public institutions. A student is completing his/her studies by elaboration of the graduate - master thesis, which consists of theoretical and methodological preparation necessary for in-depth understanding of the chosen field for writing master thesis paper.

Prior to the defence of the paper, a candidate has to pass the theoretical and methodological foundations, before a Commission, as a rule, that is composed for the defence. The final assessment of the diploma paper i.e. master paper is performed on the basis of the passed theoretical and methodological preparation and elaboration evaluation and defence of the paper itself. Final paper is defended before a committee consisting of at least three professors, of whom one member has to be from another Department or Faculty.



Table 5.2 Course specification

Course:	<h2 style="margin: 0;">Integrated Natural Disaster Risk Management</h2>					
Course id: ZP501						
Number of ECTS: 4						
Teachers:	Ćosić I. Đorđe, Sakulski M. Dušan					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses None						
1. Educational goal: The course objective is that the student masters methods and techniques of integral risk management.						
2. Educational outcomes (acquired knowledge): Acquiring knowledge from methods and techniques of integral risk management.						
3. Course content/structure: Advanced techniques used during integral risk management.						
4. Teaching methods: Lectures, Practice, Consultations. The course can be passed in the form of two colloquiums in the written form. Students who don't pass both colloquiums must take oral examination as a whole. The course grade is formed based on the success at the colloquiums, that is, examination.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Project task		Yes	30.00	Written part of the exam - tasks and theory	Yes	30.00
Test		Yes	40.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Birkmann, J.	Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies		UNU press	2004	

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Assessment of Damaged Structures</h2>			
Course id:	URZP62				
Number of ECTS:	4				
Teachers:	Malešev M. Mirjana, Radonjanin S. Vlastimir				
Course status:	Mandatory				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	2	0	0	0	
Precondition courses		None			
1. Educational goal:					
Acquiring knowledge about basic types of structure damage after catastrophic events and fire, as well as about methodologies and methods for the assessment of the actual state and safety of the damaged structures.					
2. Educational outcomes (acquired knowledge):					
Acquired knowledge is used in professional courses and in engineering practice. The student is competent for the use of different non-destructive and destructive methods of examination, registration and classification of defects and damages, identification of the cause for the appearance, and for rough estimation of the state and safety of the structures after catastrophic events and fire.					
3. Course content/structure:					
Destructive and non-destructive methods of examination (equipment, procedures, application possibilities). Classification and manifestation of damage on the structures after catastrophic event (fire, earthquakes, explosions, floods, overload, etc.). Examination methodology and assessment of the structure. Technical regulations. Examples of examination and damage assessment of the structures.					
4. Teaching methods:					
Within lectures, presentations in the form of photographs, tables, diagrams, formulas and highlighted texts-definitions are used to explain the course content of the syllabus to the students. Short topic movies are also presented. Within laboratory practice, students can see and independently carry out non-destructive examinations. During auditory practice students are presented with different structures which were assessed with an objective to better understand methodology, data processing and methods of making conclusions. The examination is oral. During the lecturing semester, oral part of the examination may be taken in the form of two colloquiums.					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	
Exercise attendance		Yes	5.00	Oral part of the exam	
Lecture attendance		Yes	5.00		
Term paper		Yes	20.00		
Literature					
Ord.	Author	Title		Publisher	Year
1,	G.S.T. Armer	Monitoring and Assessment of Structures		SPON Press, London & NY	2001
2,	John H. Bungey, G. Millard, M.G.Grantham	Testing of Concrete in Structures		SPON Press, London	2006
3,	Radonjanin Vlastimir, Mirjana Malešev	Procena stanja građevinskih objekata - materijal sa predavanja		Predmetni nastavnici	2011

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Protection and Rescue Plans</h2>				
Course id:	ZP512					
Number of ECTS:	3					
Teachers:	Jocanović T. Mitar, Morača D. Slobodan					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
The course objective is to acquire necessary knowledge for protection and rescue of people under the circumstances of natural disasters, catastrophic events and fire.						
2. Educational outcomes (acquired knowledge):						
After the passed examination students will be able to identify and classify risks for inhabitants, vulnerability of people, and to formulate, define and plan protective measures for people rescue under the conditions of natural disasters, catastrophic events and fire.						
3. Course content/structure:						
Organization and the methods of alarming the people in case of natural disaster and natural catastrophe (earthquakes, floods, landslides). Technical-technological accidents (dangerous substances, terrorism) and bigger fires (in the open, in the facilities, on reservoirs of flammable liquids, on transportation vehicles, in industrial plants). Phenomena, concept and organization of the rescue of people, material goods and cultural property. Protective and rescue measures. Preventive measures. Needs and possibilities of the protection of people, material goods and environment from the consequences of catastrophic events. Protective facilities. Methodology of planning the needs for shelters. Maintenance of shelters. The concept and objective of people evacuation, place of evacuation, time of evacuation, elements of evacuation. Planning and designing the plans of evacuation. Rescue from the rubble. Power, means and equipment for the protection from rubble. Planning and protection from earthquakes and landslides. Planning the flood defense and rescue. Protective and rescue measures from natural disasters: wind, snow, hail, ionizing radiation, and chemical contamination. Protective and rescue measures from fire in the open space-wood fire. Protective and rescue equipment.						
4. Teaching methods:						
The course is held via auditory lectures accompanied by slides and auditory practice which further encourage solving certain problems. Both lectures and practice are followed by a great number of examples from the practice. Besides, it is planned that representatives from institutions and firms also give a lecture, and that students visit institutions and firms typical for the field of interest in the lecturing units.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Lecture attendance		Yes	5.00			
Term paper		Yes	20.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Lucien G. Canton	Emergency Management: Concepts and Strategies for Effective Programs		Wiley-Interscience, London	2006	
2,	NASAR USA	Fundamentals of Search and Rescue		Jones & Bartlett Learning	2005	


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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Design and Maintenance of the Fire Detection Systems</h2>				
Course id:	ZP508					
Number of ECTS:	4					
Teachers:	Crnojević S. Vladimir, Crnojević-Bengin B. Vesna					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
The student acquires theoretical and practical knowledge necessary for independent design of stationary fire fighting systems, application and maintenance.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge from the course is applied in the independent design of stationary fire fighting systems and their maintenance.						
3. Course content/structure:						
<p>Theory lectures:</p> <p>Designing the project program of fire protection. Designing and building the fire protection system. Legislation and technical regulations for certain types of fire protection systems. Technical defining and dimensioning of the system and its elements. Designing the necessary graphic documentation (situation plan, pipe network with cross sections, fire stations drawing, drawing of basic elements and standard parts and other documents necessary for assembly). Instructions about assembly, test work, investigation and maintenance. Measurement and calculation.</p> <p>Water supply for fire fighting: requirements for fire fighting water, sources, abstraction and water accumulation, fire stations, water supply installations, hydrants, hydrant installation, pipe network. Design of stationary systems: Criteria for system selection. Fire fighting systems with water – sprinklers. Foam extinguishing systems. Carbon dioxide extinguishing systems. Powder extinguishing systems. Halons for fire extinguishing systems. Modern means for extinguishing systems.</p> <p>Design of fire protection of typical facilities: protection in the marine and river transport, protection in the air transport, protection of transportation means, storage protection, computer centers, transformers and generators, protection of public facilities, protection in the industry.</p> <p>Practice:</p> <p>The Practice is mainly computing and partially performed in the computer center where simulations of stationary fire protection systems are performed on the computers.</p>						
4. Teaching methods:						
Lectures: Lectures are combined with active participation of students. Theoretical part is accompanied by adequate examples which contribute to clarification of the theoretical part. Consultations. Practice: writing the term and project assignments by acquisition of theoretical knowledge.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance		Yes	5.00			
Presentation		Yes	10.00			
Project		Yes	50.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Z. Šmejkal	Uređaji, oprema i sredstva za gašenje od požara		SKTH/Kemija u industriji Zagreb, Zagreb	1991	
2,	E. Mihajlović, D. Mlađan, Ž. Janković	Procesi i sredstva za gašenje požara,		Fakultet zaštite na radu u Nišu, Niš	2008	
3,	R.W. Fitzgerald	Building Fire Performance Analysis		John Wiley & Sons Ltd, England	2004	
4,	SFPE	Handbook of fire protection engineering		NFPA, Boston	1995	
5,	Bujandrić V., Bujandrić N.	Projektovanje protivpožarne zaštite		Vedeko, Beograd	1996	

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Table 5.2 Course specification

Course:		Design and Maintenance of Stationary Fire Extinguishing Systems				
Course id:	ZP507					
Number of ECTS:	4					
Teachers:	Jocanović T. Mitar, Stipić S. Matija					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
The student acquires theoretical and practical knowledge necessary for independent design of stationary fire extinguishing systems, their application and maintenance.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge in the course is applied for independent design of stationary fire extinguishing systems and their maintenance.						
3. Course content/structure:						
Theoretical lectures: Fire fighting water supply: the requirements for fire fighting water, sources, reservoirs and water accumulation, pumping and water transportation. Installations for water supply: sizing and pipe network plan with all belonging elements. Selection and sizing of pumps. Design and dimensioning of the external and internal hydrant network. Design of stationary systems: criteria for system selection. Extinguishing spraying systems – sprinklers. Other systems and contemporary extinguishing equipment. Application of the system depending on the type of facility. System selection. Fundamentals of design. Project assignments. System activation and activating elements. Pipe network. Armature. Nozzles. Carriers. Hydraulic calculation. Calculation of the amount of resources for fire fighting. Instructions for installation, test mode, testing and maintenance. Practice: Practice is mainly computing and partially held in the computer center where the working simulation of stable systems for fire protection is carried out on the computers.						
4. Teaching methods:						
Lectures: Lectures are combined with active participation of students. Theoretical part is followed by corresponding examples which contribute to the clarification of the theory. Consultations. Practice: writing the term paper and project assignments through application of acquired theoretical knowledge.						
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	30.00
Lecture attendance		Yes	5.00			
Presentation		Yes	10.00			
Project		Yes	50.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Z. Šmejkal	Uređaji, oprema i sredstva za gašenje od požara		SKTH/Kemija u industriji Zagreb, Zagreb	1991	
2,	Đurić, D.,	Vodovodni sistemi		Fakultet tehničkih nauka	2007	
3,	R.W. Fitzgerald	Building Fire Performance Analysis		John Wiley & Sons Ltd, England	2004	
4,	Stipić M., Prodanović, D., i Kolaković S.	Racionalizacija i unapređenje protivpožarnih potreba javnih vodovodnih sistema-slučaj grada Novog Sada		Savremena građevinska praksa - Zbornik radova, Novi Sad	2004	
5,	Bujandrić V., Bujandrić N.	Projektovanje protivpožarne zaštite		Vedeko, Beograd	1996	

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Table 5.2 Course specification

Course:		Planning and organizing activities during events with catastrophic consequences					
Course id:	ZP514						
Number of ECTS:	3						
Teachers:	Trivunić R. Milan, Dražić J. Jasmina, Jakšić D. Željko						
Course status:	Mandatory						
Number of active teaching classes (weekly)							
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:			
2	2	0	0	0			
Precondition courses		None					
1. Educational goal:							
Gaining knowledge of planning methods and ways of organizing, so that preventive measures in cases of catastrophic events and fire.							
2. Educational outcomes (acquired knowledge):							
Acquired theoretical and applied knowledge enables the planning, selection and implementation of appropriate remediation measures, development of plans and programs for rehabilitation, and coordination and management of rehabilitation activities. Training for the planning of preventive measures to reduce the risk from the effects of catastrophic events, making plans (with the necessary resources - machinery, manpower) to mitigate the effects of catastrophic events, study on the organization and method of implementation of measures to mitigate the effects of catastrophic events (to save lives and help people in need, clearing and reconstruction and rehabilitation of buildings and infrastructure - establishing an organization to build on the reconstruction of the destroyed areas, ranging from the choice of appropriate locations, selection of building materials and machinery, quality designers, contractors and supervision).							
3. Course content/structure:							
The structure and content of recovery plans by the current building regulations with an overview of repair measures buildings and terrain. Bill of Quantities of work. Construction machinery and its application. Price cost of construction machinery. The technology works clearing (subject to possible catastrophic events), and repair damage to buildings and infrastructure. Planning. Planning methods (CPM, Gantt charts). Treatment plans on a computer. Conditions for execution of works on clearing and rehabilitation. Temporary facilities. Organizational structure and organization of the clearing and rehabilitation. Manage the implementation of the planned measures.							
4. Teaching methods:							
Teaching is realized as lectures in the form of presentations on individual methodical units and graphic practice performed individually by students during the class and assisted by an assistant. In practice classes, based on the obtained information (lectures, literature, consultations and general introduction at the beginning of exercises) students solve the set tasks (graphic practice). All completed and positively graded papers are a prerequisite for taking the examination. Examination includes the entire course content presented during the semester, and it is in written and oral form. Written part of the examination can also be taken as two modules during the teaching process. Examination grade is formed on the basis of lecture and practice attendance, points from graphic papers, written and oral examination.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points
Exercise attendance		Yes	5.00	Coloquium exam		Yes	40.00
Graphic paper		Yes	20.00	Oral part of the exam		Yes	30.00
Lecture attendance		Yes	5.00				
Literature							
Ord.	Author	Title		Publisher		Year	
1,	Trivunić, M. Matijević, Z.	TEHNOLOGIJA I ORGANIZACIJA GRAĐENJA		Fakultet tehničkih nauka, Edicija tehničke nauke, br 234		2009	
2,	Trivunić, M., Matijević, Z.	TEHNOLOGIJA I ORGANIZACIJA GRAĐENJA		Fakultet tehničkih nauka, Edicija tehničke nauke, br 126		2006	

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">20BAdvanced Course in Mathematics 1</h2>				
Course id:	Z506					
Number of ECTS:	3					
Teachers:	Kostić Z. Marko, Ralević M. Nebojša, Sladoje Matić I. Nataša					
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	1	0	0		
Precondition courses None						
1. Educational goal:						
To enable students to develop abstract thinking and gain basic knowledge of numerical mathematics and optimization methods.						
2. Educational outcomes (acquired knowledge):						
The acquired knowledge is used for further education and in vocational courses for making and solving real mathematical models within vocational courses, using the practiced material in numerical mathematics and optimization methods.						
3. Course content/structure:						
Theoretical teaching (lectures): Module: Numerical mathematics. Approximate numbers. Function approximations. Numerical solving nonlinear equations. Systems of nonlinear equations. Monte-Carlo method. Module: Optimization. Classical optimization. One-dimension optimization methods. Linear programming (graphical method, simplex method; transport problem). Mathematical method and simulation. Practical course (exercises): Appropriate examples from theoretical background are done during exercises, thus practicing a given material, and in such a way the exercises are contributing to understanding of a given material.						
4. Teaching methods:						
Lectures, Numerical-calculation and laboratory (computer) exercises. Consultation. Lectures are conducted in combination. The lecture of theoretical part is followed by examples which serve to clarify the theoretical part of the curriculum. During computational exercises, which follow the lectures, some typical tasks are done, which deepens the exposed material from the lectures, and the laboratory (computer) use of software packages (at least one) e.g.: C, Maple, Mathematica, Matlab. Apart from lectures and exercises, consultations are regularly held. Part of the material, which forms a logical whole, may be taken as an exam during the teaching process in the form of the following two parts (part one: Numerical Mathematics, Part II: Optimization). The oral part of the final exam is eliminatory.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Theoretical part of the exam	Yes	30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Term paper		Yes	10.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Petrić J.	Operaciona istraživanja		Naučna knjiga, Beograd	1987	
2,	N. M. Ralević	Odabrana poglavlja iz matematike		FTN, Novi Sad	2010	

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Fire and Explosion Protection due to Electricity</h2>			
Course id:	URZP55				
Number of ECTS:	3				
Teacher:	Pekarić-Nadž M. Neda				
Course status:	Elective				
Number of active teaching classes (weekly)					
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:	
2	1	0	0	0	
Precondition courses		None			
1. Educational goal:					
<p>The course objective is to introduce students to the basic physical properties and laws in electrical engineering. Students acquire knowledge about hazards in the working space due to atmosphere and induced electricity, excessive currents in electrical circuits, excessive flux variation in magnetic circuits, as well as excessive power transfer in one-phase and symmetrical three-phase circuits of time variable currents. Numerical calculations develop student's sense of size order of physical units describing certain phenomena.</p>					
2. Educational outcomes (acquired knowledge):					
<p>Students are trained to understand and use "Regulations on general measures for occupational safety due to dangerous effects of electricity in the working facilities, offices and at construction sites", "Official Gazette of the Republic of Serbia", no. 21/89. After completing the course, students also acquire engineering intuition which helps them identify risks and prevent fire and explosion due to electricity.</p>					
3. Course content/structure:					
<p>Coulomb's law. Electric field. The potential. Voltage. Capacitance. Critical field. Breakdown voltage. Protection against static electricity. Direct current. Kirchhoff laws. Matched load. The maximum power transfer. The magnetic field. Biot-Savart law. Ampere's law. Magnetic circuits. Faraday's law of electromagnetic induction. Sinusoidal currents and voltages. Complex power. Symmetrical three-phase systems. Protection against excess current. Technical standards for protection against fire and explosion.</p>					
4. Teaching methods:					
<p>Lectures are oral presentations accompanied by demonstration of measuring instruments and numerical problems solving on blackboard. Besides, multimedia presentations, photos and video clips are also presented.</p>					
Knowledge evaluation (maximum 100 points)					
Pre-examination obligations		Mandatory	Points	Final exam	
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	
Lecture attendance		Yes	5.00	Mandatory	Points
Term paper		Yes	20.00	Yes	70.00
Literature					
Ord.	Author	Title		Publisher	Year
1,	Republika Srbija	PRAVILNIK o opštim merama zaštite na radu od opasnog dejstva električne struje u objektima namenjenim za rad, radnim prostorijama i na radilištima		"Službeni glasnik RS", br. 21/89	1989
2,	Anamarija Juhas, Miodrag Milutinov, Neda Pekaric Nadi	Zbirka zadataka iz osnova elektrotehnike za strukovne studije		Edicija FTN	2012
3,	Giorgio Rizzoni	Principles and applications of electrical engineering		McGraw Hill	2011

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Table 5.2 Course specification

Course:		Geodetic methods for the determination of geodynamic movements				
Course id:	URZP65					
Number of ECTS:	3					
Teachers:	Bulatović S. Vladimir, Ninkov Đ. Toša					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
To acquire basic and applied knowledge in the field of Geodesy, Geomatics and Geoinformatics. To acquire basic and applied knowledge in the field of Geodynamics and Geodetic deformation analysis.						
2. Educational outcomes (acquired knowledge):						
Acquired knowledge is used in professional courses, in the recognition and in solving the engineering problems.						
3. Course content/structure:						
Fundamentals in geodynamics. Engineering and geological processes. Researching the action of exogenic and endogenic forces. Global geodynamic processes. Geodetic methods for determining the deformation of the Earth's crust. Local geodetic deformation network. Geodetic methods of determining the coordinates of the physical surface of the earth (conventional methods, GNSS, satellite, InSAR, TINSAR). The project of deformation measurements. The generating of deformation models of landslides, glaciers, river banks. The generating of model for deformation monitoring of geotectonic movements of Earth's crust. Numerical-graphic processing and interpretation of the results of deformation measurements.						
4. Teaching methods:						
Lectures. Seminar papers. Consultations. Study and research. Prerequisites: 60% of points should be provided through the partial examination and obligatory tasks, during the teaching process. Examination: final examination: The written part of the examination – theory and tasks 40%.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes	40.00
Project		Yes	30.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Donald L. Turcotte, Gerald Schubert	Geodynamics		Cambridge	2002	

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Table 5.2 Course specification

Course:		Crisis Management				
Course id:	ZP506					
Number of ECTS:	3					
Teacher:	Pečujlija D. Mladen					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>The main objective of the course is to help students understand and develop knowledge and skills necessary for crisis situation management. The complex content of the course will be viewed and analyzed from many perspectives. The course focuses on the following questions through combination of theoretical lectures and practical projects: hazards (geological, meteorological, biological and technical), vulnerability and risk assessment, risk reduction from catastrophes, emergency planning, financial planning for catastrophes, business strategies in emergency situations and crisis management. The course will help students develop skills for risk management, analysis of complex problems, assessment of possible solutions and implementations planning of risk management.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Students will be able to completely understand natural and technical hazards, vulnerability and catastrophic risks; they will develop ability to analyze risks, threats and possibilities, and also to create and implement solutions. Students will master techniques for risk reduction against catastrophes and for their management, including abilities to manage emergency situations and ensure business continuity in those situations. Students will develop mapping skills through practical work using geo-information systems.</p>						
3. Course content/structure:						
<p>The course will cover the following units through combination of theoretical lectures and practical projects: Hazards, vulnerability, risk and catastrophe: assessment of hazards (natural and anthropogenic), vulnerability and risk, the characteristics of disasters, their assessment and management. Business continuity and crisis management: the unit for business continuity and planning for crises; framework and procedures for training and organizational preparation for the crisis. Financial planning for national disaster: the economy of catastrophe (local, national, international), financial risk management, catastrophe modeling, insurance and reinsurance through series of case studies from Great Britain, Turkey and small island states in the Caribbean's. Catastrophe management techniques: methods and techniques used in the catastrophe risk assessment, GPS and GIS mapping for search and rescue actions. Natural disasters: geological, meteorological, biological and technological catastrophes, fast and slow occurring disasters; climate change impact, managing disasters and mitigation. Organizational risk: identification and corporate safety risk management.</p>						
4. Teaching methods:						
Lectures, Practice, Consultations, discussing specific problems in the field of crisis management, case studies, term paper elaboration.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Lecture attendance		Yes	5.00			
Presentation		Yes	10.00			
Term paper		Yes	20.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Avdalović V., Čosić Đ., Avdalović S.	Upravljanje rizikom u osiguranju		Fakultet tehničkih nauka Novi Sad	2008	
2,	Christine M. Pearson and Judith A. Clair	Reframing Crisis Management		The Academy of Management	1998	
3,	Myron S. Scholes	Crisis and Risk Management		American Economic Association	2000	
4,	Petrus Johannes Maria van Oosterom, Siyka Zlatanova, Elfried	Geo-information for disaster management		Springer	2005	

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Safety of Strategic Energy Facilities</h2>				
Course id:	URZP63					
Number of ECTS:	3					
Teacher:	Vujić V. Zoran					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>Educational objective is to introduce students to the basic concepts of safety of strategic energy and nuclear facilities and plants and their application. Based on the analysis of severe nuclear accidents (TMI-2, Chernobyl, Fukushima) omissions in the security system of nuclear installations will be processed, as well as the risks related to the application of nuclear energy for peaceful purposes.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Students acquire knowledge about the basic concept of safety which has to be considered during design and maintenance of strategic energy systems. Students will also be introduced to the basic systems of nuclear facility safety, as well as to basic methods of safety analysis (probable and deterministic) applicable to both nuclear and energy facilities in general.</p>						
3. Course content/structure:						
<p>Theoretical lectures: An overview of global energy image in the world and Serbia. Safety risks related to different methods of electricity production. Basic principles of safety during design and maintenance of energy facilities (redundancy principles, diversity principles, spatial separation principle, fail-safe principle etc.). Protection of energy facilities against terrorist attacks. Application of basic principles of safety to nuclear plants. Analysis of safety of nuclear plants (deterministic and probable methods). Severe accidents in nuclear industry (TMI-2, Chernobyl, Fukushima) and the risk related to the electricity production in nuclear plants.</p>						
4. Teaching methods:						
<p>Lectures include theoretical part of the course with practical examples from the industry for easier understanding and acquisition of knowledge. Auditory Practice further clarifies lectures through active participation of students and practical application of contemporary methods (deterministic and probable) of safety analysis of energy and nuclear facilities. Besides lectures and practice, consultations held on a regular basis.</p>						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	60.00
Lecture attendance		Yes	5.00			
Term paper		Yes	30.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	D.G. Cacuci	Nuclear Reactor Safety Systems		Woodhead Publishing Series in Energy	2001	
2,	Vujić V. Zoran	Bezbednost strateških energetske i nuklearnih sistema		Skripta, interno izdanje FTN	2011	


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Table 5.2 Course specification

Course:		Professional practice				
Course id:	Z504					
Number of ECTS:	3					
Teachers:						
Course status:	Mandatory					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
0	0	0	0	3		
Precondition courses		None				
1. Educational goal:						
Gaining direct knowledge about the functioning and organization of companies and institutions dealing with matters within the profession for which the student is getting qualifications and possibilities of applying previously acquired knowledge into practice.						
2. Educational outcomes (acquired knowledge):						
Training students to apply previously acquired theoretical and professional knowledge to solve specific practical engineering problems in the selected companies or institutions. Introducing students to activities of the selected companies or institutions, ways of doing business, management and the place and role of engineers in their organizational structures.						
3. Course content/structure:						
Formed for each candidate separately, in agreement with the management of companies or institutions, performing professional practice and in accordance with the needs of the profession for which the student is qualified.						
4. Teaching methods:						
Consultation and writing a diary of professional practice in which a student describes the activities and tasks that he performed during the professional practice.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Project		Yes	50.00	Project defence	Yes	50.00
Literature						
Ord.	Author	Title		Publisher	Year	



Table 5.2 Course specification

Course:		Studijski istraživački rad na teorijskim osnovama - master rada				
Course id:	URZP02					
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	9	0		
Precondition courses		None				
1. Educational goal:						
2. Educational outcomes (acquired knowledge):						
3. Course content/structure:						
4. Teaching methods:						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Term paper		Yes	50.00	Oral part of the exam	Yes	50.00
Literature						
Ord.	Author	Title		Publisher	Year	
1,	grupa autora	časopisi sa Kobson liste			sve	
2,	grupa autora	časopisi, diplomski i master radovi			sve	



Table 5.2 Course specification

Course:		Izrada i odbrana master rada				
Course id:	URZP01					
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	0	8		
Precondition courses		None				
1. Educational goal:						
2. Educational outcomes (acquired knowledge):						
3. Course content/structure:						
4. Teaching methods:						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
				Master thesis defence	Yes	50.00
				Writing the master thesis	Yes	50.00

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">The role of media in reducing the risk</h2>				
Course id:	URZP64					
Number of ECTS:	3					
Teacher:	Ratković-NJegovan M. Biljana					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>Mastering the knowledge and skills necessary for efficient professional, responsible, ethical and legal usage of the media in risk prevention, increase of personal, corporate, and social security, and mastering the skills necessary for establishing optimal crisis communication with the public through the media in all phases of the crisis, in the post-crisis period as well in prevention phase.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Students will be educated and trained for efficient use of the media in risk prevention, as well as to communicate with modern media systems in terms of endangered security of people, facilities and environment.</p>						
3. Course content/structure:						
<p>1. INTRODUCTION - Media as a means of communication; development of media and dominant models of communication throughout history; modern media. - The influence of the media on the public - analysis of different theoretical approaches; the influence of media on defining reality. - Classical and modern media as a factor of prevention and security; international, national, corporate and personal security, security on the Internet - Social Responsibility of Media. 2. FEATURES of media role in terms of increased risk – Specifics of interaction between the media and the public in terms of risk events/situations; Role of public services and commercial media in terms of increased risk; Media as a factor of influence on the prevention, flow and elimination of consequences of risk situations; - Significance of media nomination, classification and risk assessment of events/situations; Characteristics of media forms in the presentation of risk situations; - Basic models of communication with the media in crisis situations. 3. PREVENTION OF RISK THROUGH COMMUNICATION WITH THE MEDIA - The role of the media in growing awareness about the importance of prevention and reduction of risk; - Preparation, processing and distribution of printed, audio, photo, video and mixed media releases. 4. COMMUNICATION WITH THE MEDIA DURING THE CRISIS SITUATIONS - The influence of the media in a human-factor induced crisis, due to natural factors and crises caused by the combined action of natural and human factors; - Basic models and phases of media processing of risk situations (5 basic stages in media processing the crisis) - The causes of inadequate media coverage of events; Example analysis of media processing accident, trouble, emergency, crisis and disaster; - Effect of media in social conflicts and crises. 5. MEDIA AS A FACTOR IN ELIMINATING THE CONSEQUENCES OF CRISIS – Methods of (re)activation of media during the post crisis period.</p>						
4. Teaching methods:						
Teaching is conducted through lectures, auditory and practical exercises.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	70.00
Project		Yes	15.00			
Term paper		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	M. Regester, M., Larkin,	Risk Issues and Crisis Managementt: A Casebook of best practice (3rd edition)		Kogan Page, London	2005	
2,	Keković, Z.	Proces integralnog upravljanja rizicima		Fakultet bezbednosti, Beograd	2001	
3,	Mortensen, M.S.	Public Relations in Crisis and Disaster. A Breif Introduction for Practitioners			2008	
4,	Kostić, B.	Media management in latent phase of social conflicts		XIV International Scientific Conference on Industrial Systems, Novi Sad	2008	
5,	Fearn-Banks,S.	Crisis Communications: A Casebook Approach		Loresn Erlbaum, London	2000	
6,	Virilio, P.	Od terora do apokalipse, Nova Srpska politička misao, Debate br 4. Svet posle 11. septembra,		Nova Srpska politička misao, Beograd	2002	
7,	Bodrijar, Ž.	Duh terorizma		Arhipelag, Beograd	2007	

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Table 5.2 Course specification

Course:		<h2 style="margin: 0;">Investigation of Fire and Explosion</h2>				
Course id:	ZP509					
Number of ECTS:	4					
Teacher:	Krnjetin S. Slobodan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	1	0	0	0		
Precondition courses		None				
1. Educational goal:						
Acquiring theoretical and practical knowledge necessary for investigation of circumstances and causes which led to fire and explosion.						
2. Educational outcomes (acquired knowledge):						
Acquired theoretical and applied knowledge enables clarification of circumstances which led to fire.						
3. Course content/structure:						
Methods of fire investigation. Inspecting fire causes. Analysis of the fire manifestation. (traces of fire outside and inside the space). Manifestation of fire in transportation vehicles. Methods of determining the place of fire origin. Event reconstruction and report elaboration. Application of laboratory methods for fire expertise. Modern information technologies used in investigation and fire expertise.						
4. Teaching methods:						
Lectures, Term Paper, Presentation, Consultation.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	30.00
Lecture attendance		Yes	5.00			
Presentation		Yes	10.00			
Term paper		Yes	20.00			
Test		Yes	30.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	EDITED BY NIAMH NIC DAÉID	Fire Investigation		CRC Press LLC, Boca Raton, Florida, USA	2004	
2,	U.S. Department of Justice Office of Justice Programs National Institute of Justice	Fire and Arson Scene Evidence: A Guide for Public Safety Personnel		U.S. Department of Justice Office of Justice Programs, Washington DC, USA	2000	
3,	David D. Redsicker John J. O Connor	Practical fire and Arson Investigation		CRC Press LLC, Boca Raton, Florida, USA	1987	
4,	Aleksić Ž., Kostić R.	Požari i eksplozije		Savremena administracija, Beograd	1983	

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Table 5.2 Course specification

Course:		Qualitative and quantitative methods of risk management				
Course id:	ZP515					
Number of ECTS:	3					
Teachers:	Pečujlija D. Mladen, Sakulski M. Dušan					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
<p>The subject aims to enable students to understand many basic concepts, processes, and issues that arise when performing empirical studies in most disciplines of management, and thus create a conceptual basis for later studies in facilities that include this type of knowledge.</p>						
2. Educational outcomes (acquired knowledge):						
<p>Students are trained in-house research design, data collection, data processing, univariate procedures, interpretation of data and preparation of reports on research conducted using the software package to enable SPSS. Studenti and multivariate data processing methods (exploratory factor analysis, EFA, confirmatory factor analysis CFA, structural modeling, SEM, analysis)</p>						
3. Course content/structure:						
<p>At the beginning of the study deals with the problems of preparation, which introduces a number of basic methodological concepts, such as types and objects of research, methods of sample selection, classification variables and the relationships between them, the types of data, problems of measurement, types of control, and other research. Then discusses the three main groups of research designs, such as frequency, correlation and factorial designs. Within each of the three groups of drawings appear gradually from simpler to more complex types. After that are the basic forms processing, analysis and interpretation of results, especially for the three groups of the draft. The advanced section where students are trained to perform the collection, processing and analysis of data using multivariate procedures that are consistent with the trends of the world's leading journals in the field (in depth). These procedures are exploratory and confirmatory factor analysis, cluster analysis and Structural modeling method. The emphasis is on logic and above all practice mentioned at the end of the course describes the structure of a standard written report on the investigation.</p>						
4. Teaching methods:						
Lectures, computer exercises and consultations.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Laboratory exercise attendance		Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00
Project		Yes	30.00			
Project task		Yes	15.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Nunnally, J.M	Psychometric theory		McGRAW-HILL, INC	1998	

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Table 5.2 Course specification

Course:		Technical Systems Reliability				
Course id:	ZP516					
Number of ECTS:	3					
Teacher:	Šević D. Dragoljub					
Course status:	Elective					
Number of active teaching classes (weekly)						
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:		
2	2	0	0	0		
Precondition courses		None				
1. Educational goal:						
The goal of this course is to train students in the methods of determining the reliability and use of the data on the reliability of the elements / systems.						
2. Educational outcomes (acquired knowledge):						
After passing the exam, students will be able to calculate the reliability of the elements of the basis of collected data, calculation of system reliability based on defined / specific elements reliability of the system and block diagram are defined in terms of the reliability of the observed system. In addition, students will gain a general knowledge of the construction and use of fault tree analysis and design elements on the basis of reliability.						
3. Course content/structure:						
Mathematical basis of reliability, Reliability of the Elements, System Reliability, Reliability Allocation, Design Based on Reliability, Fault Tree Analysis.						
4. Teaching methods:						
The program consists of two parts. The first part covers the theoretical issues, while the second part includes auditory and computational exercises where students apply the mathematical apparatus in order to determine the reliability of the observed elements / systems. During lectures and during exercise a laptop and projector beam are used, because of the need for more vivid and more accurate representation of the teaching units key elements. Whenever it is possible, prepared data and the diagrams will be used, with use of the simulation change of the certain parameters of theoretical distributions and graphical representation of these changes.						
Knowledge evaluation (maximum 100 points)						
Pre-examination obligations		Mandatory	Points	Final exam	Mandatory	Points
Exercise attendance		Yes	5.00	Oral part of the exam	Yes	30.00
Lecture attendance		Yes	5.00	Practical part of the exam - tasks	Yes	30.00
Term paper		Yes	20.00			
Test		Yes	10.00			
Literature						
Ord.	Author	Title		Publisher	Year	
1,	Gradimir Ivanovic, Dragutin Stanivukovic, Ivan Beker	TEORIJA POUZDANOSTI		FTN, Novi Sad	2010	
2,	Dragutin Zelenovic, Jovan Todorovic	Teorija pouzdanosti tehničkih sistema		FTN, Novi Sad	2004	
3,	Gradimir Ivanović, Dragutin Stanivuković	Pouzdanost tehničkih sistema - zbirka rešenih zadataka		Mašinski fakultet, beograd	1987	
4,	Kececioğlu Dimitri	Reliability engineering handboock		Prentice Hall Inc	1991	

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Standard 06. Programme Quality, Contemporaneity and International Compliance

The programme of multidisciplinary and interdisciplinary studies of Risk and Fire Protection Management is designed and defined keeping in mind the specifics of the profession of the Risk and Fire Protection Management in Serbia and respecting the experience from the relevant university institutions in the world dealing with the education of the experts in this field. This study profile is recognized as a sublimation of the study programmes of the following universities:

The University of Edinburgh, GB

<http://www.see.ed.ac.uk/postgraduate/taughtdeg/SFSE/>

The College of Justice & Safety, Richmond, Eastern Kentucky University, USA

<http://www.cjs.eku.edu/sssem/fset/FireProtectionSafetyEngineeringTechnologyCurriculum.php>

Lund University, Faculty of Engineering, LTH, Lund, Sweden

http://www.lth.se/english/education/programmes/risk_management_safety/

Lund University, Faculty of Engineering, LTH, Lund, Sweden

<http://www.lu.se/master-of-disaster-management-english>

Ghent University, Ghent, Belgium

<http://www.imfse.ugent.be/index.asp?p=582&a=582>

International

University of Maryland, USA

<http://www.fpe.umd.edu/grad/index.html>

These study programmes are compatible and comparable to the certain extent in their syllabus and curriculum to the suggested study programme of Risk and Fire Protection Management/FTN. The difference in the theme and programme wholes of individual courses is intentionally made for the purposes of contemporary, modern and complete education of the students in the fields which are considered basic, while they are later profiled to the specific issues of risk and fire protection management through elective courses. Elective courses are at the higher years of study and can be selected in accordance with the individual inclinations and interests of the students.

Graduate academic master studies as well as undergraduate academic studies of Risk and Fire Protection Management at EU universities, in most cases are related to some of the scientific fields such as construction, mechanical engineering, electrical engineering, hydrology, technology or ecology. Studies of Risk and Fire Protection Management at the Faculty of Technical Sciences are unique, integrated, multidisciplinary, and interdisciplinary.



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Standard 07. Student Enrollment

Each year a certain number of students are enrolled at the Faculty of Technical Sciences on the undergraduate or master academic studies of Risk and Fire Protection Management, in accordance with social needs and infrastructure resources, either at the budget financing or self-financing, which is annually defined by special decision of Scientific Educational Council of the Faculty of Technical Sciences.

Students from other academic programs as well as persons who have completed studies may be enrolled to this study program. In this respect, the evaluation committee (comprising of the heads of all departments involved in realization of the study program) evaluates all passed activities of candidates for enrollment on the basis of all recognized number of points determined by the year of study in which the student can be enrolled. Hence, the passed activities can be recognized in full, can be recognized in part (Commission may require the proper supplement) or they may not be recognized at all.

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Standard 08. Student Evaluation and Progress

The final grade in each course included in this programme is formed by continual monitoring of students' accomplishments throughout the academic year and by passing the final examination.

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

Students obtain points from a course through their work during classes, completion of the prerequisites and taking the examination. The minimum number of points a student can obtain by fulfilling the course prerequisites during classes is 30, and the maximum 70.

Each course at the study programme has a clear and transparent mode of obtaining points. There are several ways students can obtain points: by participating in different activities during classes, by fulfilling the course prerequisites and by passing the course examination.

The final success of students at a course is presented with a grade 5 (failed) to 10 (excellent). The student's grade is based on the overall number of points obtained on fulfilling prerequisites and taking the examination, and in accordance with the quality of acquired knowledge and skills.

In order to take the final examination in the certain course, it is necessary that the student obtains at least 15 points in the examination prerequisites. Additional conditions for taking the examinations are defined individually for each course.

Advancement of students during education is defined by the Rules of Studying at the Undergraduate Academic Studies.



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Standard 09. Teaching Staff

For the realization of the study programme in Risk and Fire Protection Management, there is teaching staff with necessary professional and scientific qualifications.

The number of teachers engaged in the realization of the study programs of undergraduate and graduate academic studies meets the requirements of the study program and depends on the number of courses and number of classes on these courses. The total number of teachers is sufficient to cover the total number of hours on the study program, so that the teacher has about 180 hours of active lecturing (Lectures, consultations, exercises, practical work, ...) annually, or 6 times a week. Out of the total number of necessary teachers, one teacher is with 5% of working time, five teachers are from other faculties within the University of Novi Sad, one from master and doctoral studies has been retired (according to the law, two years more at master's and doctoral studies). Other teachers are full-time employed.

The number of associates meets the requirements of the study program. The total number of associates on the study program is sufficient to cover the total number of hours in the study programme Risk and Fire Protection Management, so that the associates make an average of 300 hours of Practice per year, that is, 10 hours per week.

Scientific and professional qualifications of the teaching staff match the educational and scientific field and level of their assignments. Each teacher has at least five references in the specific scientific or technical field, which is related to his teaching activities at the particular study program.

The group size for the lectures is up to 180 students, for exercises up to 60 students, and for labs up to 20 students.

All data on teachers and associates (CV, elections for the position, references) are available to the public.



Science, arts and professional qualifications

Name and last name:	Bulatović S. Vladimir		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.03.2003		
Scientific or art field:	Geodesy		
Academic career	Year	Institution	Field
Academic title election:	2011	Faculty of Technical Sciences - Novi Sad	Geodesy
PhD thesis	2011	Faculty of Technical Sciences - Novi Sad	Geodesy
Magister thesis	2007	Faculty of Organizational Sciences - Beograd	Information-Communication Systems
Bachelor's thesis	2001	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GG08	Geodesy	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GI019	Bathymetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI210	Mean Value Calculation	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI307A	Engineering Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI207	GNSS basics	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GI401A	Integrated Systems of Surveying	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
9.	GI403	Methods for Precise Geodetic Measurements and Data Processing	(GI0) Geodesy and Geomatics, Master Academic Studies
10.	GI502	Location Based Services	(GI0) Geodesy and Geomatics, Master Academic Studies
11.	GI514	Engineering Geodesy 3	(GI0) Geodesy and Geomatics, Master Academic Studies
12.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
13.	GI600	Applied Geophysics in Geomatics	(GI0) Geodesy and Geomatics, Master Academic Studies
14.	URZP65	Geodetic methods for the determination of geodynamic movements	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
17.	SDGI02	Selected topics in engineering geodesy	(GI0) Geodesy and Geomatics, Specialised Academic Studies
18.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
19.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	SDGI12	Selected topics in Inegrated Systems of Surveying	(GI0) Geodesy and Geomatics, Specialised Academic Studies
21.	SDGI19	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Specialised Academic Studies
22.	SDGI20	Selected topics in Geodynamics	(GI0) Geodesy and Geomatics, Specialised Academic Studies
23.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
24.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
25.	DGI002	Selected Chapters in Engineering Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
26.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies



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

ID	Course name	Study programme name, study type
27.	DGI009 Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
28.	DGI010 Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DGI019 Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Bulatović V., Sušić Z., Ninkov T.: Estimate of the ASTER-GDEM regional systematic errors and their removal, INT J REMOTE SENS, 2012, Vol. 33, No 18, pp. 5915-5926, ISSN 0143-1161
2.	Bulatović V., Ninkov T., Malenković V., Vulić M.: Contemporary Methods of Determining Energy Losses in Structures, TTEM. Tehnics technologies education management, 2012, Vol. 7, No 2, pp. 687-692, ISSN 1840-1503
3.	Bulatović V., Sušić Z., Ninkov T.: Open Geospatial Consortium Web Services in Complex Distribution Systems, Geodetski list, 2010, Vol. 64, No 1, pp. 13-29, ISSN 0016-710X
4.	*****Autori: T. Ninkov, V. Bulatović, Z. Sušić Naziv: Primena laserskog skeniranja kod projektovanja linijskih struktura i objekata Naziv skupa: GNP 2008
5.	*****Autori: Ninkov T., Bulatović, V. Naziv: Neke praktične primene AGROS-a Naziv skupa: Konferencija o uvođenju novog geodetskog referentnog sistema
6.	*****Autori: Ninkov T., Bulatović, V. Naziv: Primena naprednih tehnologija u projektima čišćenja reke Dunav od neeksplozivnih ubojitih sredstava na području Novog Sada Naziv skupa: GNP 2006
7.	*****Autori: Ninkov T., Bulatović, V. Naziv: Savremene metode izrade digitalnih topografskih podloga Naziv skupa: GNP 2006
8.	*****Autori: Benka P., Bulatović, V. Naziv: GIS in irrigation system management Naziv skupa: VIIth International symposium interdisciplinary regional research
9.	Benka P., Bulatović V.: Geographic Information System in Irrigation System Management, 7. ISIRR 2003, Hunedoara, 1 Januar, 2010, pp. 614-619
10.	*****Autori: Z. Sušić, D. Vasić, V. Bulatović, T. Ninkov Naziv: Geodetski monitoring građevinskih objekata korišćenjem konvencionalnih i savremenih tehnologija Naziv skupa: GNP 2008

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 :	1



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MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

1.	Dejan Vukobratovic, Cedimir 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.	Cedimir 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

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Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

1.	V. Crnojević-Bengin, V. Radonić, and B. Jokanović: Fractal Geometries of Split-Ring Resonators, IEEE Transactions of Microwave Theory and Techniques, Vol. 56, No. 10, pp. 2312-2321, October 2008.
2.	B. Jokanović, V. Crnojević-Bengin, O. Boric-Lubecke, Miniature High Selectivity Filters Using Grounded Spiral Resonators, Electronics Letters, Vol. 44, No. 17, 14th August 2008
3.	V. Radonić, V. Crnojević-Bengin, Super-compact stopband filter based on grounded patch resonator, Electronic letters, Vol. 46, No. 2, pp. 146-147, ISSN: 0013-5194, January 2010.
4.	V. Crnojević-Bengin, V. Radonić, B. Jokanović, "Left-handed microstrip lines with multiple complementary split-ring and spiral resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2007), vol. 49, no.6, pp. 1391-1395
5.	V. Crnojević-Bengin, "Compact 2D Hilbert microstrip resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, (2006) vol.48, no.2, pp. 270-273
6.	V. Crnojević-Bengin, Đ. Budimir, "Novel 3-D Hilbert Microstrip Resonators", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, John Willey, vol. 46, no. 3, pp. 195-197, August 2005, ISSN: 0895-2477.
7.	B. Jokanović, V. Crnojević-Bengin, "Novel left-handed transmission lines based on grounded spirals," Microwave and Optical Technology Letters, John Willey, Vol. 49, No. 10, oktobar 2007, pp. 2561-2567
8.	V. Radonić, K. Palmer, G. Stojanović and V. Crnojević-Bengin, Flexible Sierpinski Carpet Fractal Antenna on a Hilbert Slot Patterned Ground, International Journal of Antennas and Propagation, Vol. 2012, Article ID 980916, doi:10.1155/2012/980916
9.	Zemlyakov, Kirill; Crnojević-Bengin, Vesna, Planar low-pass filters based on hilbert fractal, MICROWAVE AND OPTICAL TECHNOLOGY LETTERS 2012 54 (11):2577-2581
10.	V. Radonić, K.D. Palmer and V. Crnojević-Bengin: "A dipole antenna design incorporating both electromagnetic bandgap and zero-refractive index metamaterials," METAMATERIALS, St. Petersburg, Russia, 17-22 September 2012



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

Quotation total :	9		
Total of SCI(SSCI) list papers :	4		
Current projects :	Domestic :	1	International : 3



Science, arts and professional qualifications

Name and last name:		Ćosić I. Đorđe	
Academic title:		Assistant Professor	
Name of the institution where the teacher works full time and starting date:		Faculty of Technical Sciences - Novi Sad 01.01.2007	
Scientific or art field:		Production Systems, Organization and Management	
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Engineering Management
Magister thesis	2007	Faculty of Technical Sciences - Novi Sad	Production Systems, Organization and Management
Bachelor's thesis	2001	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.	URZP33 Role and Importance of Prevention in Risk Reduction	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
2.	URZP36 Risks in Manipulating Hazardous Substances	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
3.	URZP41 Disasters and Vulnerability	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
4.	URZP46 Cycle Elements of Catastrophic Events	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
5.	URZP56 Fundamentals of Risk and Fire Protection Management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
6.	IM1024 Risk Management and insurance	(I20) Engineering Management, Undergraduate Academic Studies	
7.	S0I321 Insurance for traffic and transport	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies	
8.	URZP80 Basic principals of insurance	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies	
9.	IMDR0S Selected chapters in enterprise's design, organization and control	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies	
10.	OIR001 Basic insurance	(I20) Engineering Management, Specialised Professional Studies	
11.	OIR002 Insurance risks	(I20) Engineering Management, Specialised Professional Studies	
12.	Z511 Institucionalni okviri upravljanja akcidentnim rizicima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies	
13.	ZP501 Integrated Natural Disaster Risk Management	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies	
14.	IM2707 Methods for the analysis of insurance risk	(I20) Engineering Management, Master Academic Studies	
15.	IM2714 Disaster risk management cycle	(I20) Engineering Management, Master Academic Studies	
16.	IM2717 Management of strategic and operational risks of insurance companies	(OM1) Mathematics in Engineering, Master Academic Studies	
17.	IM2719 Loss Assessment	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies	
18.	IMDS75 Selected Topics in Risk Management and Insurance Management	(I22) Engineering Management, Specialised Academic Studies	
19.	MPK009 Enviromental hazards	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies	
20.	IMDR0 Science of Industrial Engineering and Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies	
21.	IMDR75 Selected Topics in Risk Management and Insurance Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies	

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Study Programme Accreditation			
MASTER ACADEMIC STUDIES		Disaster Risk Management and Fire Safety	
List of courses being held by the teacher in the accredited study programmes			
ID	Course name	Study programme name, study type	
22.	ZRD233 Selected topics in the field of insurance from the standpoint of safety and health at work	(Z01) Safety at Work, Doctoral Academic Studies	
Representative references (minimum 5, not more than 10)			
1.	Pečujlija M., Čosić Đ.: An Orthodox Christian Reflection: Genetic Enhancement Must not be the Creation Primacy Problem between Man and God, The American Journal of Bioethics, 2010, Vol. 10, No 4, pp. 78-80, ISSN 1526-5161		
2.	Pečujlija M., Čosić Đ., Bojanić R., Radišić S., Ivanović G., Delić Z.: Employees' Attitudes Towards Company Privatization as Possible Predictors of a High Performance Working System, African Journal of Business Management, 2011, Vol. 5, No 3, pp. 1663-1672, ISSN 1993-8233		
3.	Čosić Đ., Popov S., Sakulski D., Pavlović A.: Geo-Information Technology for Disaster Risk Assessment, Acta Geotechnica Slovenica, 2011, Vol. 8, No 2011/1, pp. 64-74, ISSN 1854-0171		
4.	Pečujlija M., Azemović N., Azemović R., Čosić Đ.: Leadership and productivity in transition: employees view in Serbia, Journal for East European Management Studies, 2011, Vol. 16, No 3, pp. 251-263, ISSN 0949-6181		
5.	Njegomir V., Čosić Đ.: Ekonomske implikacije klimatskih promena na sektor osiguranja i reosiguranja, Teme, 2012, Vol. 36, No 2, pp. 679-701, ISSN 0353-7919		
6.	Sakulski D., Čosić Đ., Popov S.: Implementation of Innovative Technologies for Disaster Risk Reduction, 1. International Conference Natural Hazards, Novi Sad: University of Novi Sad, Faculty of Science, 5 Maj, 2012, pp. 15-16, ISBN 978-86-7031-276-0		
7.	Sakulski D., Čosić Đ., Popov S., Pavlović A., Laban M.: Disaster risk management and fire safety, 1. International conference Protection, Ecology, Security, Bar: Fakultet za pomorstvo Kotor, 24-26 Maj, 2012, pp. 75-81		
8.	Simić J., Popov S., Čosić Đ., Sakulski D., Novaković T., Popović Lj., Pavlović A., Luhović A.: The aspect of bringing data in spatial relationship during the process of teaching at the subject "Disaster risk management" , UDK: 37.01:004 (082)		
9.	Pavlović A., Čosić Đ., Popov S., Kolaković S.: Indikatori praćenja hazardnih pojava poplave i suše u cilju poboljšanja planiranja melioracija, Tematski zbornik radova "Melioracije 07 - stanje i perspektive-", 2012, No 12, pp. 136-146, ISSN 978-86-7520-107-6, UDK: 626.8(082)		
10.	Popović Lj., Popov S., Čosić Đ., Sakulski D.: Impact of Visualization on Data Availability, UDK: CIP je dostupan u Univerzitetskoj biblioteci Rijeke pod brojem 121219001		
Summary data for teacher's scientific or art and professional activity:			
Quotation total :	0		
Total of SCI(SSCI) list papers :	5		
Current projects :	Domestic :	2	International : 1



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Jocanović T. Mitar		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.03.1999		
Scientific or art field:	Quality, Effectiveness and Logistics		
Academic carieer	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
Magister thesis	2006	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	H1403	Automation of work processes	(H00) Mechatronics, Undergraduate Academic Studies
2.	H310	Components of technological systems	(H00) Mechatronics, Undergraduate Academic Studies
3.	I401	Tribology	(M30) Energy and Process Engineering, Undergraduate Academic Studies
4.	URZP17	Devices and systems in fire protection	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	URZP40	Stationary Systems for Fire Extinguishing	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	URZP45	Mobile Equipment and Fire Extinguishing Equipment	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	II1011	Automation of work processes 1	(I10) Industrial Engineering, Undergraduate Academic Studies
8.	II1038	Automation of work processes 2	(I10) Industrial Engineering, Undergraduate Academic Studies
9.	II1050	TRIBOLOGY AND LUBRICATION	(I10) Industrial Engineering, Undergraduate Academic Studies
10.	IM1008	Processes and Work Equipment	(I10) Industrial Engineering, Undergraduate Academic Studies (I20) Engineering Management, Undergraduate Academic Studies
11.	IMDS58	Selected Chapters in Hydraulic Systems	(I12) Industrial Engineering, Specialised Academic Studies
12.	IMDS95	Trends in Customer Relationship Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	ZP507	Design and Maintenance of Stationary Fire Extinguishing Systems	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
14.	ZP512	Protection and Rescue Plans	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
15.	IIDS12	Quality and organizational performance	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
16.	IIDS30	Trends in the environmental management systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
17.	IIDS7	Selected topics in quality engineering and logistics	(I12) Industrial Engineering, Specialised Academic Studies
18.	IMDS74	Selected Topics in Quality Management and Logistics	(I22) Engineering Management, Specialised Academic Studies
19.	IMDR58	Selected Chapters in Hydraulic Systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
20.	IMDR94	Trends in the environmental management systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
21.	IMDR95	Trends in Customer Relationship Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies



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**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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


ID	Course name	Study programme name, study type
22.	IMDR74 Selected Topics in Quality Management and Logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23.	IMDR79 Selected topics in quality engineering and logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR83 Quality abd organisational performance	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	V. Savić, D. Knežević, D. Lovrec, M. Jocanović, Velibor Karanović: Determination of Pressure Losses in Hydraulic Pipeline Systems by Considering Temperature and Pressuer, Strojšnik Vestnik-Journal of Mechanical Engineering, 2009, Vol. 55, No. 4, str.237-243, UDK: 621.643, ISSN 0039-2480
2.	M. Jocanović, D. Šević, V. Karanović, I. Beker, S. Dudić: Increased efficiency of hydraulic systems through reliability theory and monitoring of system operating parameters, Strojšnik Vestnik-Journal of Mechanical Engineering, 2012, Vol. 58, No. 4, str.281-288, UDK: 621.643, ISSN 0039-2480
3.	Z.Milovanović, D. Knežević, A. Ivanišević, M. Jocanović, S. Mitrović: ECONOMICAL EVALUATION OF THE PROJECT ON REPLACEMENT OF HEATING PLANT WITH CO-GENERATION HEAT AND POWER PLANT BY THE END OF 2030 , Metalurgia International, 2013, No4,
4.	M. Jocanović, V. Savić, V. Karanović,: MODEL FOR TRANSLATION OF CLASSES OF PURITY OF OILS BETWEEN ISO 4406/99, NAS 1638-01 AND SAE AS 4059: D STANDARDS, 14. Međunarodna naučna konferencija INDUSTRIJSKI SISTEMI - IS'08, Novi Sad: Fakultet tehničkih nauka - Novi Sad, 2-3 Oktobar, 2008, str. 391- 396, UDK: 685.5 (082), ISBN 978-86-7892-135-3.
5.	M. Jocanović; PRILAZ ISTRAŽIVANJU I DEFINISANJU MODELA ZA PRORAČUN PROTICANJA ČVRSTIH ČESTICA SA ULJNOM MASOM KROZ ZAZORE U FUNKCIJI KONSTRUKCIONO RADNIH PARAMETARA HIDRAULIČNIH KOMPONENATA, Doktorska disertacija
6.	M.Jocanović; RAZVOJ INTEGRALNOG MODELA ZA IZBOR I DIJAGNOSTIKU MINERALNIH HIDRAULIČKIH ULJA; Magistrarski rad iz oblasti problematike vezane za izbor i dijagnostikovanje mineralnih hidrauličkih ulja u hidrauličkim sistemima
7.	M.Jocanović, D.Babić, V.Karanović, R.Geaverts: Industrial Aplication of Automatic Lubrication Systems, Fluid Power 2011, str. 409-418, Mašinski fakultet univerziteta u Mariboru, Slovenija: 2011, UDK 621.51/54 (082), ISBN 978-961-248-290-9
8.	V. Savić, V. Karanović, M. Jocanović, D. Knežević: Pressure drop in hydraulic pipeline system - Identification of real basis for calculation of mineral hydraulic oil flow, Fluid Power 2009, str. 133-148, Mašinski fakultet univerziteta u Mariboru, Slovenija: 2009, UDK 621.51/54 (063)(082), ISBN 978-961-248-176-6
9.	V. Savić, M. Jocanović, D.Knežević, M.Kraišnik; KINEMATICS OF DISTRIBUTION OF PRESSURE WITHIN PIPELINE OF TWO'LINE SYSTEMS FOR LUBRICATION, VII TH INTERNATIONAL SYMPOSIUM INTERTRIBO 2002, str. 141 – 143, Stara Lesna, Slovak Republic (2002),
10.	V.Savić, M. Jocanović, V. Karanović: BASIC CONSTRUCTION MODEL OF THE SYSTEM FOR PROTECTION OF FRUIT TREES FROM FROST BY ICE PROTECTIVE CRUST, 14. Međunarodna naučna konferencija INDUSTRIJSKI SISTEMI - IS'08, Novi Sad: Fakultet tehničkih nauka - Novi Sad, 2-3 Oktobar, 2008, str. 129- 134, UDK: 685.5 (082), ISBN 978-86-7892-135-3.

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

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Kočetov-Mišulić Đ. Tatjana		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.01.1989		
Scientific or art field:	Constructions in Civil Engineering		
Academic career	Year	Institution	Field
Academic title election:	2009	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
PhD thesis	2008	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
Magister thesis	1997	Faculty of Technical Sciences - Novi Sad	Constructions in Civil Engineering
Bachelor's thesis	1988	Faculty of Technical Sciences - Novi Sad	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.	GG203	Actions on Structures	(G00) Civil Engineering, Undergraduate Academic Studies
2.	GG30	Concrete Structures	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG34	Timber Structures	(G00) Civil Engineering, Undergraduate Academic Studies
4.	GI308A	Fundamentals in Civil Engineering	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	A305	Bearing structures 1	(A00) Architecture, Undergraduate Academic Studies
6.	GG37	Basics of design in civil engineering structures	(G00) Civil Engineering, Undergraduate Academic Studies
7.	GG411	Masonry structures	(G00) Civil Engineering, Undergraduate Academic Studies
8.	GH407	Concrete structures - Hydrotechnics	(G00) Civil Engineering, Undergraduate Academic Studies
9.	GP406	Concrete structures - Roads	(G00) Civil Engineering, Undergraduate Academic Studies
10.	GG514	Special Timber Structures	(G00) Civil Engineering, Master Academic Studies
11.	GG517	Damages and Repair of Masonry, Steel and Timber Structures	(G00) Civil Engineering, Master Academic Studies
12.	URZP62	Assessment of Damaged Structures	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
13.	AD0009	Complex Timber Structures	(AD0) Digital Techniques, Design and Production in Architecture and Urban Planning, Master Academic Studies

Representative references (minimum 5, not more than 10)

1.	Zakić, B., Kočetov Mišulić, T., Čakić, B. (1998): "Montažne drvene kuće u svetu i kod nas". Univerzitet u Prištini, Priština, SRJ, 105 str.
2.	Zakić, B., Lekić, R., Đukić, Lj., Kočetov, T. (1992): "Naponsko stanje u truss joist nosačima". "Materijali i konstrukcije", br. 1-2, Beograd, SRJ, str. 30-36.
3.	Zakić, B., Kočetov Mišulić, T. (2000): "Osnovi plastične teorije kod drveta". "Materijali i konstrukcije", Beograd, SRJ, 43 br. 3-4, str. 37-40.
4.	Zakić, B., Kočetov, T. (1994): "Composite beam structures - wood and concrete". Proceedings of 4th ASCCS International Conference on Steel-Concrete Composite Structures, Košice, Slovakia, pp. 328-334.
5.	Kočetov Mišulić, T., Gramatikov, K. (2003): "Proračun i ispitivanje veza u drvenim konstrukcijama prema EC-5 i EN standardima". Zbornik radova INDIS 2003. - 9.og nacionalnog simpozijuma, Novi Sad, SCG, str. 291-298.
6.	Kočetov Mišulić, T., Stevanović, B. (2005): "Preporuke za održavanje, praćenje, i ocenu stanja drvenih konstrukcija". Zbornik radova IV naučno-stručnog savetovanja Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Zlatibor, str.175-180.
7.	Stevanović, B., Kočetov Mišulić, T. (2005): "Faktori obezbeđenja trajnosti i zaštita drvenih konstrukcija". Zbornik radova IV naučno-stručnog savetovanja Ocena stanja, održavanje i sanacija građevinskih objekata i naselja, Zlatibor, SCG, str.181-186.
8.	Kočetov Mišulić T., Stevanović B. (2008): "Eksperimentalna podloga za uvođenje klasa čvrstoće četinarske rezane građe na domeće tržište", "Materijali i konstrukcije", br. 4, Beograd, str. 50-62.
9.	Kočetov Mišulić, T., Gramatikov, K. (2005): "Experimentally supported investigation of in row nailed connections under monotone and cyclic loadings". Proceedings of the 11th International MASE Symposium, Ohrid, Republic Macedonia, SI-2, pp. 275-280.
10.	Zakić, B., Janković, D., Kovačević, D., Kočetov, T. (1990): "Izmereni smičući i glavni naponi kod lameliranih lepljenih konstrukcija". Zbornik radova IX Kongresa JUDIMK-a, Novi Sad, SFRJ, Knjiga II, str. 265-273.

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 : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

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 carier	Year	Institution	Field
Academic title election:	2010	Faculty of Technical Sciences - Novi Sad	Mathematics
PhD thesis	2004	Faculty of Sciences - Novi Sad	Mathematical Sciences
Magister thesis	2001	Faculty of Sciences - Novi Sad	Mathematical Sciences
Bachelor's thesis	1999	Faculty of Sciences - Novi Sad	Mathematical Sciences
List of courses being held by the teacher in the accredited study programmes			
	ID	Course name	Study programme name, study type
1.	E121	Mathematical Analysis 2	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies
2.	E135B	Mathematical Analysis 2	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	E212	Mathematical Analysis 1	(E20) Computing and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
4.	EOS07	Mathematics 2	(E01) Power Engineering - Renewable Sources of Electrical Energy, Undergraduate Professional Studies
5.	F101	Mathematics	(F00) Graphic Engineering and Design, Undergraduate Academic Studies
6.	G1107	Mathematical Analysis 1	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
7.	M106	Mathematics 2	(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies
8.	M4202	Applied Mathematical Analysis	(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies
9.	ISIT06	Matematika 2	(S11) Software and Information Technologies (Inđija), Undergraduate Professional Studies
10.	OM501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML501	Functional Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	Z506	20BAdvanced Course in Mathematics 1	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies
14.	Z506	Viši kurs matematike 1(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	DOM01	Functional Analysis 1	(OM1) Mathematics in Engineering, Doctoral Academic Studies



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
16. D0M19	Functional Analysis 2	(OM1) Mathematics in Engineering, Doctoral Academic Studies
17. DZ01M	Selected Chapters in Mathematics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies (F20) Engineering Animation, Doctoral Academic Studies (G00) Civil Engineering, Doctoral Academic Studies (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Kostić, Marko, Distribution cosine functions. Taiwanese J. Math. 10 (2006), no. 3, 739--775.
2.	Kostić Marko, On analytic integrated semigroups. Novi Sad J. Math. 35 (2005), no. 1, 127--135.
3.	Kostić Marko, Convolved C -cosine functions and convolved 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: Convolved C -cosine functions and semigroups. Relations with ultradistribution and hyperfunction sines, accepted in J. Math. Anal. Appl.
8.	M. Kostić: Complex powers of operators, accepted in Publications De l'Institute Mathematique
9.	M. Kostić: C -Distribution semigroups, Studia Math. 185 (2008), 201--217.
10.	M. Kostić: Convolved operator families and abstract Cauchy problems, accepted in Kragujevac Journal of Mathematics

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

Quotation total :	32
Total of SCI(SSCI) list papers :	15
Current projects :	Domestic : 1 International : 0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Krnjetin S. Slobodan		
Academic title:	Full Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.09.2000		
Scientific or art field:	Environment Protection Engineering		
Academic carieer	Year	Institution	Field
Academic title election:	2010		Environment Protection Engineering
PhD thesis	1999	Faculty of Technical Sciences - Novi Sad	Civil Engineering
Magister thesis	1991	Faculty of Technical Sciences - Novi Sad	Civil Engineering
Bachelor's thesis	1979	Faculty of Technical Sciences - Novi Sad	Civil Engineering

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

	ID	Course name	Study programme name, study type
1.	A310	Ecology and the Built Environment	(A00) Architecture, Undergraduate Academic Studies
2.	GG407	Ecology and Protection of Built Environment	(G00) Civil Engineering, Undergraduate Academic Studies
3.	URZP15	Work safety during interventions	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	Z202	Construction and the Living Environment	(Z20) Environmental Engineering, Undergraduate Academic Studies
5.	Z202A	Building and Environment	(Z01) Safety at Work, Undergraduate Academic Studies
6.	Z423	Natural Materials in Construction	(Z20) Environmental Engineering, Undergraduate Academic Studies
7.	ZP503	Fire Protection Planning and Design	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
8.	ZP505	Fire Safety Engineering Design of Structures	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	ZR404	Occupational Safety Systems, Means and Equipment	(Z01) Safety at Work, Undergraduate Academic Studies
10.	Z202	Graditeljstvo i životna sredina(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z423	Prirodni materijali u graditeljstvu(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	ASI322	Ecology and Design	(AS0) Scenic Architecture, Technique and Design, Undergraduate Academic Studies
13.	IM1715	Risks and Hazards at Work and in the Working Environment	(I20) Engineering Management, Undergraduate Academic Studies
14.	ZP509	Investigation of Fire and Explosion	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies (I20) Engineering Management, Master Academic Studies
15.	IM2718	Fire Risk Management in Industry	(I20) Engineering Management, Master Academic Studies

Representative references (minimum 5, not more than 10)

1.	Krnjetin S.. Graditeljstvo i zaštita životne sredine, Prometej, Novi Sad, 2001. str.386
2.	Krnjetin S.: Građevinarstvo i urbanizam, 1989. VTŠ, Novi Sad,
3.	Krnjetin S.: Monografija Graditeljstvo i zaštita životne sredine, (drugo izmenjeno i dopunjeno izdanje), Prometej, Novi Sad, 2004. str. 455
4.	FIRE TEST 2 NOVI SOFTVER ZA POŽARNU ANALIZU UGRADA (VIZUEL BASIC), 1999. (prihvaćen i realizovan u najvećim osiguravajućim kompanijama Dunav osiguranjeBeograd i DDOR Novi Sad
5.	Krnjetin S.: Održiva arhitektura - niskoenergetske zgrade napravljene od zemlje, EKO - konferencija 2005. u Novom Sadu
6.	Krnjetin S., Krklješ M., Vrbaški B.: Zelena arhitektura - krovne bašte, XII Međunarodna EKO konferncija o zaštiti životne sredine gradova, Novi Sad, 2009.
7.	Vrbaški B., Krnjetin S.: Strategic Envirinmental Impact Assessment - Experiences of the Serbia, Časopis Prostor 17 (2009) 1(37), Arhitektonski fakultet, Zagreb, pp 186-191, 2009.
8.	Vrbaški B., Krnjetin S.:Problems associated with the preparation of strategic environmental impact assessment of plans, Časopis Ecologica 16 (2009), Beograd,
9.	Krnjetin S., Krnjetin O.: Modeling the evacuation of people in the fire, Monitoring and expertize in safety engineering - Scientific and expert journal, No.3. 1012, VTSS, Novi Sad and ST.Petersburg University of State fire service of emercom of russia, 2012. ISSN 2217-6608



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

10. Krnjetin S., Konstatinović D., Zeković M.: Building with Earth Materials - reevaluating tradition of the region - Research Overview
Časopis ECOLOGICA 14 (2007) No 50, Beograd,

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

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Malešev M. Mirjana		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 16.01.1984		
Scientific or art field:	Materials in Civil Engineering, Condition Assessment and Construction		
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Materials in Civil Engineering, Condition Assessment and Construction Sanation
PhD thesis	2003	Faculty of Civil Engineering - Beograd	Materials in Civil Engineering and Concrete Technology
Magister thesis	1994	Faculty of Technical Sciences - Novi Sad	Materials in Civil Engineering and Concrete Technology
Bachelor's thesis	1983	Faculty of Technical Sciences - Novi Sad	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.	A202	Structures, Materials and Building	(A00) Architecture, Undergraduate Academic Studies
2.	GG09	Materials in Construction 2	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG21	Concrete Technology	(G00) Civil Engineering, Undergraduate Academic Studies
4.	URZP13	Building materials and structures	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	GG504	Durability and Assessment of Concrete Structures	(G00) Civil Engineering, Master Academic Studies
6.	GG517	Damages and Repair of Masonry, Steel and Timber Structures	(G00) Civil Engineering, Master Academic Studies
7.	GG518	Repair of Concrete Structures	(G00) Civil Engineering, Master Academic Studies
8.	GG521	Construction Business and Regulative	(G00) Civil Engineering, Master Academic Studies
9.	GP502	Bridge Management	(G00) Civil Engineering, Master Academic Studies
10.	URZP62	Assessment of Damaged Structures	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
11.	GS009	Energy-efficient materials and diagnostic of building thermotechnical performances	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
12.	GS010	The design of energy efficient buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
13.	GS011	Energy revitalization of buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
14.	SDG11A	Odabrana poglavlja iz građevinskih materijala i konstrukcija	(G10) Geodesy and Geomatics, Specialised Academic Studies
15.	GD005	Selected Chapters in Concrete Theory and Technology	(G00) Civil Engineering, Doctoral Academic Studies
16.	GD008	Contemporary Methods in Concrete Structure Design	(G00) Civil Engineering, Doctoral Academic Studies
17.	GD015	Rheology of Concrete Structures	(G00) Civil Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Malešev, M. (1994) Primena metode ultrazvuka pri određivanju otpornosti betona na dejstvo mraza, Magistarska teza
2.	Malešev, M. (2003) Parametarska analiza uticaja novih vrsta cementa proizvedenih prema EN 197-1 na osnovna svojstva betona, Doktorska disertacija
3.	Malešev, M., Folić, R., Muravljev, M., Radonjanin, V. (1996): Eksperimentalno istraživanje zavisnosti između brzine ultrazvuka i otpornosti betona na dejstvo mraza, XX Kongres JUDIMK, Cetinje, str. 73 - 79.
4.	Radonjanin, V., Malešev, M. (1997): Concrete Quality Control by Using Statistical Methods, Bulletins for Applied & Computer Mathematics, BAM-1324, Vol.LXXXIB, Budapest, Hungary, pp. 95-104.
5.	Stojanović G., Radovanović M., Malešev M., Radonjanin V.: Monitoring of Water Content in Building Materials Using a Wireless Passive Sensor, Sensors, 2010, Vol. 10, No 5, pp. 4270-4280, ISSN 1424-8220, UDK: 10.3390/s100504270
6.	Malešev M., Radonjanin V., Radeka M., Milovanović V., Lukić I.: Basic properties of structural lightweight aggregate concrete in relation to type and quantity of cementitious materials - part 1, 1. International Symposium about Research and Application of Modern Achievements in Civil Engineering in the Field of Materials and Structures, Tara: Društvo za ispitivanje i istraživanje materijala i konstrukcija Srbije, Beograd, 19-21 Oktobar, 2011, pp. 159-168, ISBN 978-86-87615-02-1



UNIVERSITY OF NOVI SAD

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**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

7.	Radonjanin V., Malešev M., Radeka M., Lukić I., Milovanović V.: Basic properties of structural lightweight aggregate concrete in relation to type and quantity of cementitious materials - part 2, 1. International Symposium about Research and Application of Modern Achievements in Civil Engineering in the Field of Materials and Structures, Tara: Društvo za ispitivanje i istraživanje materijala i konstrukcija Srbije, Beograd, 19-21 Oktobar, 2011, pp. 169-178, ISBN 978-86-87615-02-1
8.	Malešev M., Radonjanin V., Emhemed Saed M., Milovanović V.: Zeleni betoni-nove mogućnosti održivog građevinarstva, 12. Konferencija Savremena građevinska praksa, Andrevlje: Fakultet tehničkih nauka i Društvo građevinskih inženjera Novog Sada, 19-20 Maj, 2011, pp. 209-226, ISBN 978-86-7892-324-1
9.	Marinković S., Radonjanin V., Malešev M., Ignjatović I.: Comparative environmental assessment of natural and recycled aggregate concrete, Waste Management, 2010, Vol. 30, No 11, pp. 2255-2264, ISSN 0956-053X, UDK: doi: 10.1016/j.wasman.2010.04.012
10.	Maksimović M., Stojanović G., Radovanović M., Malešev M., Radonjanin V., Radosavljević G., Smetana W.: Application of a LTCC sensor for measuring moisture content of building materials, Construction and Buildings Materials, 2012, Vol. 26, No 1, pp. 327-333, ISSN 0950-0618(02)00045-4, UDK: 10.1016/j.conbuildmat.2011.06.029

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

Quotation total :	4		
Total of SCI(SSCI) list papers :	1		
Current projects :	Domestic :	2	International : 1



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
21. UP004	Applied IT Project Management	(I20) Engineering Management, Specialised Professional Studies (IB0) Engineering Management - MBA, Specialised Professional Studies
22. IMDR96	Project portfolio management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
23. IMDR71	Selected topics of project management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24. ZRD213	Current state and development tendencies of quality management of work environment	(Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Moraca Slobodan Hadzistevic Miodrag Drstvensek Igor Radakovic Nikola, Application of Group Technology in Complex Cluster Type Organizational Systems, STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, ISBN 0039-2480, (2010), vol. 56 br. 10, str. 663-675
2.	Hadžistević Miodrag; Morača Slobodan; Networks and Quality Improvement; International Journal for Quality Research ISSN: 1800-6450 Detalji Vol. 3, No. 4, Str. 353-361
3.	Demko-Rihter J., Gračanin D., Morača S.: The importance of the business environment for the liquidity of SMEs and entrepreneurs - case of Serbia, 4. International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD, Ohrid: National Centre for Development of Innovation and Entrepreneurial Learning, 5-7 Maj, 2011, pp. 172-179, ISBN 978-608-65144-1-9
4.	Ćosić Ilija; Gračanin Danijela; Morača Slobodan; Ćirić Jelena; Project Approach in Design of Complex Organizational Structures Vol. 13, No. 1, Str. 249-252, ISBN 1840-4944, University of Zenica, Faculty of Mechanical engineering in Zenica; International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT (13 ; Hammamet ; 2009)
5.	Morača Slobodan; Maksimović Rado; HOLISTIC, MANAGEMENT, AND CHANGES IN ORGANIZATION; Str. 835-841, UDK 658.5(082), ISBN 86-7780-008-5, Izdavač: University of Novi Sad, Faculty of Technical Sciences; International Scientific Conference on Industrial Systems - IS (13 ; Herceg Novi ; 2005)
6.	Morača, S., Ćosić, I. Softver za podršku odlučivanju u strateškom upravljanju preduzećem, Naziv skupa: XLVI konferencija ETRAN-a, Banja Vrućica, Detalji Str. 63-66, ISBN 86-80509-43-4, Društvo za elektorniku, telekomunikacije, računarstvo, automatiku i nuklearnu tehniku;
7.	Etos - Moris, dr Božo Sovilj, mr Slobodan Morača: Udžbenik koji obrađuje probleme poslovne etike i morala
8.	Morača Slobodan, Katić Jasna, Vulcanović Srđan, Proizvodnja bio dizela - pozitivni i negativni uticaji u odnosu na zahteve standarda ISO 14000 i OHSAS 18000 Tehnika - Kvalitet, standardizacija i metrologija, vol. 8, br. 3, str. 6-10, 2008
9.	Morača Slobodan; Gračanin Danijela; Ćirić Jelena; Change Management in modern organizations; International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD (3 ; NoviSad ; 2010) pp. 547-552, ISBN 978-86-7892-250-3, Izdavač: Fakultet tehničkih nauka;
10.	Morača Slobodan; Hadžistević Miodrag; Šević Dragoljub; Value Creation in Business Networks; International Conference for Entrepreneurship, Innovation and Regional Development ICEIRD (3 ; Novi Sad ; 2010) Str. 553-558, ISBN 978-86-7892-250-3, Izdavač: Fakultet tehničkih nauka;

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

Quotation total :	2
Total of SCI(SSCI) list papers :	1
Current projects :	Domestic : 4 International : 4

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Ninkov Đ. Toša		
Academic title:	Full Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.02.1994		
Scientific or art field:	Geodesy		
Academic carieer	Year	Institution	Field
Academic title election:	2002	Faculty of Technical Sciences - Novi Sad	Geodesy
PhD thesis	1982	Faculty of Civil Engineering - Beograd	Geodesy
Magister thesis	1979	Faculty of Civil Engineering - Beograd	Geodesy
Bachelor's thesis	1972	Faculty of Civil Engineering - Beograd	Geodesy

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

	ID	Course name	Study programme name, study type
1.	GI019	Bathymetry	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
2.	GI025B	Geodetic Metrology	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI029	Utility Information Systems and their Application	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
4.	GI307A	Engineering Geodesy	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
5.	GI402	Engineering Geodesy 2	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
6.	GI505	Advanced Techniques in Geodetic Design and Monitoring	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
7.	GI009	Introduction to deformation measurement and analysis	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies
8.	GH507	Engineering Geodesy	(G00) Civil Engineering, Master Academic Studies
9.	GI403	Methods for Precise Geodetic Measurements and Data Processing	(GI0) Geodesy and Geomatics, Master Academic Studies
10.	GI514	Engineering Geodesy 3	(GI0) Geodesy and Geomatics, Master Academic Studies
11.	GI518	Geodesy in City Planning	(GI0) Geodesy and Geomatics, Master Academic Studies
12.	GI601	Geodynamics	(GI0) Geodesy and Geomatics, Master Academic Studies
13.	URZP65	Geodetic methods for the determination of geodynamic movements	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
14.	GS005	Contemporary recording methods of energy losses of buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
15.	GI516	Deformation analysis and measurements	(GI0) Geodesy and Geomatics, Master Academic Studies
16.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies
17.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies
18.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies
19.	SDGI02	Selected topics in engineering geodesy	(GI0) Geodesy and Geomatics, Specialised Academic Studies
20.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies
21.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies
22.	SDGI11	Selected topics in deformation measurements and analysis	(GI0) Geodesy and Geomatics, Specialised Academic Studies
23.	SDGI14	Selected topics in geodetic networks and their optimization	(GI0) Geodesy and Geomatics, Specialised Academic Studies
24.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies
25.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies
26.	DGI002	Selected Chapters in Engineering Geodesy	(GI0) Geodesy and Geomatics, Doctoral Academic Studies



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
27.	DGI006 Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
28.	DGI009 Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
29.	DGI010 Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
30.	DGI011 Selected Chapters in Deformation Analysis and Measurements	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
31.	DGI014 Selected Chapters in Geodesic Networks and Their Optimization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
32.	DGI019 Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
33.	DGI012 Selected topics in integrated systems of surveying	(GI0) Geodesy and Geomatics, Doctoral Academic Studies
34.	DGI015 Selected topics in geophysics	(GI0) Geodesy and Geomatics, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Ninkov, T. (1988): "Optimizacija projektovanja geodetskih mreža" Naučna knjiga, Gradjevinski fakultet, Beograd 1989
2.	Ninkov, T. (1982): "A new method of land Surveying networks optimization". Meeting of Study Eroup 5 B. Survey Control Networks; Alborg, edited by K. Borre i W.M. Welsch Rep 7 Schriftenreihe Wissenschaftlicher Studiengang Wermessungswesen der Hochschule der Bundeswehr Munchen, pp. 293-300.
3.	Bulatović V., Sušić Z., Ninkov T.: Estimate of the ASTER-GDEM regional systematic errors and their removal, INT J REMOTE SENS, 2012, Vol. 33, No 18, pp. 5915-5926, ISSN 0143-1161
4.	Tosa Ninkov, Miro Govedarica, Milan Trifkovic: One Method of Renewal of Stereographics Survey Data in Coka Municipality, Geodetski list: glasilo Hrvatskoga geodetskog društva. 68(88), (2011), 4; (IF 2010 0.038)
5.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa: Metadata Catalogues in Spatial Information Systems (Review) GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)
6.	Vladimir Bulatović, Toša Ninkov, Zoran Sušić: Open Geospatial Consortium Web Services Complex Distribution Systems, Geodetski list, (2009), br 1, str.13-29, (IF 2009 0.167)
7.	Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov: Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88), (2011), 1; (IF 2010 0.038)
8.	Bulatović V., Ninkov T., Malenković V., Vulić M.: Contemporary Methods of Determining Energy Losses in Structures, TTEM. Tehnics technologies education management, 2012, Vol. 7, No 2, pp. 687-692, ISSN 1840-1503
9.	- Projekat informacionog sistema postojeće kanalizacione mreže Beograda i 3D modela sadržaja na fizičkoj površini zemlje koristeći GPS merenja, satelitski snimak sistema IKONOS i postojeću dokumentaciju (Beograd 2006)
10.	- GIS projekat Naftnog i gasnog distributivnog sistema QGPC-a (Qatar General Petroleum Corporation)1999-2000 Šef projekta za GIS

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

Quotation total :	86		
Total of SCI(SSCI) list papers :	5		
Current projects :	Domestic :	3	International : 2



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
21. IMDR84	Data ACQUISITION, ANALYSIS AND INTERPRETATION 1	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Representative references (minimum 5, not more than 10)		
1.	Pecujlija, M., Cosic, D (2010). An Orthodox Christian Reflection: Genetic Enhancement Must Not Be the Creation Primacy Problem Between Man and God. American Journal of Bioethics, 4, 10, 78-80	
2.	Pecujlija, M., Culibrk, D. (2012). Why we believe the computer when it lies. Computers in Human Behavior, 28, 143-152	
3.	Pecujlija, M., Cosic, I., Ivanisevic, V. (2011). A Professor's Moral Thinking at the Abstract Level vs The Professor's Moral Thinking in the Real Life Situations. Science and Engineering Ethics, 17, 2, 299-320	
4.	Pecujlija, M., Azemovic, N., Azemovic, R. (2011). Leadership and productivity in transition: employees' view in Serbia, Journal of East European Management Studies, 16, 3, 251-263	
5.	Radlovacki, V., Beker, I., Majstorovic, V., Pecujlija, M., Stanivukovic, D., Kamberovic, B. (2011). Quality managers' estimates of quality management principles application in certified organisations in transitional conditions - is Serbia close to TQM? Journal of Mechanical Engineering, 57, 11, 851-861	
6.	Jovanovic, R, Radlovacki, V, Pecujlija, M, Kamberovic, B, Delic, M, Grujic, J. (2012). Assessment of blood donors' satisfaction and measures to be taken to improve quality in transfusion service establishments. MEDICINSKI GLASNIK 9, 2, 231-238	
7.	Pecujlija, M., Nerandzic, B., Perovic, V., Jevtic, A., Simic, N. (2010). Initiating innovations in Serbian companies organizational cultures. African Journal of Business Management, 18, 4, 3957-3967	
8.	Pecujlija, M. et al (2010). "Employees' Attitudes Toward Company Privatization as Possible Predictors of a High-Performance Work System", African Journal for Business and Management. 5, 5, 1663-1672	
9.	Jokic, S, Cosic, I, Sajfert, Z, Pecujlija, M, Pardanjac, M. (2012) Schools as Learning Organizations: Empirical Study in Serbia. METALURGIJA INTERNATIONAL, 17, 2, 83-89	
10.	Radlovacki, V, Pecujlija, M, Kamberovic, B, Jovanovic, R, Delic, M, Beker, I. (2012). Satisfaction of high school students with the applicability of their knowledge TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM,7, 2, 777-785	
Summary data for teacher's scientific or art and professional activity:		
Quotation total :	7	
Total of SCI(SSCI) list papers :	11	
Current projects :	Domestic :	1 International : 1



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

5.	Šečerov Sokolović R., Sokolović S., Mihajlović Đ., Gelei T., Pekarić Nađ N., Šević S.: Effect of pulsed electromagnetic field on crude oil rheology, Industrial and Engineering Chemistry Research, 1998, Vol. 37, No 12, pp 4828-4834, ISSN 0888-5885
6.	Buranj N., Milutinov M., Pekarić Nađ N.: Uređaj za izlaganje malih tečnih uzoraka magnetskom polju, 2011
7.	Juhas A., Pekarić Nađ N., Herceg D.: Estimation of Human Exposure to Combined RF EM Field of Multiple Antennas, 5. International PhD Seminar on Computational Electromagnetics and Optimization in Electrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 September, 2010, pp. 27-31, ISBN 978-954-438-856-0
8.	Herceg D., Pekarić Nađ N., Juhas A.: Shield shape influence on a coreless probe inductance, 5. International PhD Seminar on Computational Electromagnetics and Optimization in Electrical Engineering CEMOEE, Sofija: Proceedings of International PhD Seminar on Computational electromagnetics and optimization in electrical engineering – CEMOEE 2010, Sofia, Bulgaria, 10-13 September, 2010, 10-13 September, 2010, pp. 18-21, ISBN 978-954-438-856
9.	Milutinov M., Juhas A., Pekarić Nađ N.: Power line currents data extraction from magnetic field measurements, 17. International Symposium on Electrical Apparatus and Technologies – SIELA, Bourgas, 28-30 Maj, 2012, pp. 226-231, ISBN 1314-6297
10.	Dimitrijević R., Tasić D., Raičević N., Aleksić S., Pekarić Nađ N.: Analysis of a MV XLPE Cable Termination Design with Embedded Electrodes, Facta universitatis - series: Electronics and Energetics, 2010, Vol. 23, No 1, pp. 99-117, ISSN 0353-3670

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

Quotation total :	16		
Total of SCI(SSCI) list papers :	3		
Current projects :	Domestic :	2	International : 1



Science, arts and professional qualifications

Name and last name:	Radonjanin S. Vlastimir		
Academic title:	Associate Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.11.1987		
Scientific or art field:	Materials in Civil Engineering, Condition Assessment and Construction		
Academic career	Year	Institution	Field
Academic title election:	2008	Faculty of Technical Sciences - Novi Sad	Materials in Civil Engineering, Condition Assessment and Construction Sanation
PhD thesis	2003	Faculty of Civil Engineering - Beograd	Materials in Civil Engineering and Concrete Technology
Magister thesis	1994	Faculty of Technical Sciences - Novi Sad	Materials in Civil Engineering and Concrete Technology
Bachelor's thesis	1982	Faculty of Civil Engineering - Beograd	Civil Engineering

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

	ID	Course name	Study programme name, study type
1.	A202	Structures, Materials and Building	(A00) Architecture, Undergraduate Academic Studies
2.	GG09	Materials in Construction 2	(G00) Civil Engineering, Undergraduate Academic Studies
3.	GG21	Concrete Technology	(G00) Civil Engineering, Undergraduate Academic Studies
4.	URZP13	Building materials and structures	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	GG504	Durability and Assessment of Concrete Structures	(G00) Civil Engineering, Master Academic Studies
6.	GG506	Professional Practice	(G00) Civil Engineering, Master Academic Studies
7.	GG517	Damages and Repair of Masonry, Steel and Timber Structures	(G00) Civil Engineering, Master Academic Studies
8.	GG518	Repair of Concrete Structures	(G00) Civil Engineering, Master Academic Studies
9.	GP502	Bridge Management	(G00) Civil Engineering, Master Academic Studies
10.	URZP62	Assessment of Damaged Structures	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
11.	GS009	Energy-efficient materials and diagnostic of building thermotechnical performances	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
12.	GS010	The design of energy efficient buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
13.	GS011	Energy revitalization of buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
14.	SDG11A	Odabrana poglavlja iz građevinskih materijala i konstrukcija	(G10) Geodesy and Geomatics, Specialised Academic Studies
15.	GD005	Selected Chapters in Concrete Theory and Technology	(G00) Civil Engineering, Doctoral Academic Studies
16.	GD008	Contemporary Methods in Concrete Structure Design	(G00) Civil Engineering, Doctoral Academic Studies
17.	GD013	Earthquake Engineering	(G00) Civil Engineering, Doctoral Academic Studies
18.	GD015	Rheology of Concrete Structures	(G00) Civil Engineering, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Radonjanin,V. (2003): Prilog istraživanju osnovnih karakteristika betona modifikovanih polimerima sa aspekta njihove primene u armiranobetonskim konstrukcijama, Magistarska teza
2.	Radonjanin,V.(1994): Parametarska analiza karakteristika reparaturnih maltera sa aspekta njihove primene pri sanaciji armiranobetonskih konstrukcija, Doktorska disertacija
3.	Folić, R., Radonjanin, V. (1998): Experimental research on polymer modified concrete, ACI Materials Journal, VOL. 95 No. 4, July/August 1998, pp.463-470.
4.	Marinkovic Snezana B, Radonjanin Vlastimir S, Malesev Mirjana, Ignjatovic IS,Comparative environmental assessment of natural and recycled aggregate concrete (Article), WASTE MANAGEMENT, (2010), vol. 30 br. 11, str. 2255-2264
5.	Stojanovic Goran M, Radovanovic Milan, Malesev Mirjana, Radonjanin Vlastimir S, Monitoring of Water Content in Building Materials Using a Wireless Passive Sensor (Article), SENSORS, (2010), vol. 10 br. 5, str. 4270-4280
6.	Maksimovic M.; Stojanovic G.; Radovanovic M.; Malesev M.; Radonjanin V.; Radosavljevic G.; Smetana W (2012).: Application of a LTCC sensor for measuring moisture content of building materials, Elsevier - Construction and Building Materials, Volume 26, Issue 1, January 2012, pp. 327–333 (http://dx.doi.org/10.1016/j.conbuildmat.2011.06.029)
7.	Folić, R., Radonjanin, V., Malešev, M. (2002): The assessment of the Structure of Novi Sad Open University Damaged in Fire, Journal "Construction and Building Materials", No. 16 (2002), Elsevier Science, London, pp.427 - 440.



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FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

- | | |
|-----|---|
| 8. | Matić B., Tepić J., Sremac S., Radonjanin V., Matić D., Jovanović P.: Development and evaluation of the model for the surface payment temperature prediction, Journal "Metalurgija", Croatian metallurgical society, Zagreb, Croatia, ISSN: 0543-5846, 2012 (UDC – UDK 621.747.621.006.2:658.564=111), pp.329-332 |
| 9. | Pavlović, P., Folić, R., Radonjanin, V., Tatomirović, M. (1997): The Testing and Repair of Steel Silo, Journal "Construction and Building Materials", Vol. 11. No. 5-6 (1997), Elsevier Science, London, pp.353-363. |
| 10. | Radonjanin, V., Malešev, M., Folić, R. (2007): Assessment and repair of the bearing structure of a multi-storey parking garage, Journal of Building Appraisal, Volume 2, Issue 4, Publisher "Palgrave Macmillan", London, UK, February 2007, pp. 335-354. |

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

Quotation total :	24		
Total of SCI(SSCI) list papers :	7		
Current projects :	Domestic :	2	International : 1

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

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.	OM502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
7.	OM508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
8.	OM517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
9.	OML502	Partial Differential Equations	(OM1) Mathematics in Engineering, Master Academic Studies
10.	OML508	Mathematical Foundations of Fuzzy Systems	(OM1) Mathematics in Engineering, Master Academic Studies
11.	OML517	Numerical Analysis	(OM1) Mathematics in Engineering, Master Academic Studies
12.	DZ01MS	Selected Chapters in Mathematics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies (Z00) Environmental Engineering, Specialised Academic Studies
13.	Z506	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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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 (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	E. Pap, N. Ralević, Pseudo-Laplace transform, Nonlinear Analysis: Theory Methods and Applications, 33 (1998), 533-550.
2.	N. M. Ralević, Lj. M. Nedović, T. Grbić, The pseudo-linear superposition principle for nonlinear partial differential equations and representation of their solution by the pseudo-integral, Fuzzy Sets and Systems 155 (2005) 89-101.
3.	Lj. M. Nedović, N. M. Ralević, T. Grbić, Large deviation principle with generated pseudo measures, Fuzzy Sets and Systems 155 (2005) 65-76.
4.	T. Lukić, N. M. Ralević, Geometric Mean Newton's Method for Simple and Multiple Roots, Applied Mathematics Letters (accepted).
5.	N. M. Ralević, One characterization of Navier-Stokes equation, Acta Mechanica Slovaca, Košice, ročník 8., č. 4/2004, str. 97-102.
6.	N. Ralević, Some new properties of g-calculus, Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak. Ser. Mat. 24, 1 (1994), 139-157.
7.	E. Pap, N. Ralević, Pseudo operations on finite intervals, Novi Sad J. Math. Vol. 29, No. 1, 1999, 1-6
8.	N. M. Ralević, A generalization of the Pseudo-Laplace transform, Novi Sad J. Math. Vol. (accepted).
9.	I. Kovačević, N. Ralević, Funkcionalna analiza, Edicija tehničke nauke, Novi Sad (2004), 203 str.
10.	I. Kovačević, N. Ralević, Matematička analiza I (uvodni pojmovi i granični procesi), Novi Sad (2000), 155 str.

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

Quotation total :	28
Total of SCI(SSCI) list papers :	10
Current projects :	Domestic : 2 International : 0



UNIVERSITY OF NOVI SAD

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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Quotation total :	0			
Total of SCI(SSCI) list papers :	4			
Current projects :	Domestic :	1	International :	0

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Sakulski M. Dušan		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 01.10.2007		
Scientific or art field:	Environment Protection Engineering		
Academic carier	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Environment Protection Engineering
PhD thesis	2002	WITS University - Johannesburg	Environment Protection Engineering
Bachelor's thesis	1982	Faculty of Civil Engineering - Beograd	Civil Engineering
Magister thesis	-		Civil Engineering

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

	ID	Course name	Study programme name, study type
1.	URZP23	Applied Information Technologies	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
2.	URZP36	Risks in Manipulating Hazardous Substances	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
3.	URZP41	Disasters and Vulnerability	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
4.	URZP44	Application of geoinformation technology in risk management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
5.	URZP46	Cycle Elements of Catastrophic Events	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
6.	URZP56	Fundamentals of Risk and Fire Protection Management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
7.	Z415	Accidental Risks Management	(Z20) Environmental Engineering, Undergraduate Academic Studies
8.	Z511P	Institutional Framework in Risk Management	(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies
9.	Z307	Modelovanje i simulacija u IZŽS(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
10.	Z409A	Upravljanje opasnim otpadom(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
11.	Z415	Upravljanje akcidentalnim rizicima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies
12.	ZC047	Waste to energy technologies	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies
13.	ZP515	Qualitative and quantitative methods of risk management	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
14.	Z510	Upravljanje akcidentalnim rizicima i životna sredina(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
15.	Z511	Institucionalni okviri upravljanja akcidentnim rizicima(uneti naziv na engleskom)	(Z20) Environmental Engineering, Master Academic Studies
16.	ZP501	Integrated Natural Disaster Risk Management	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
17.	IM2707	Methods for the analysis of insurance risk	(I20) Engineering Management, Master Academic Studies
18.	IM2714	Disaster risk management cycle	(I20) Engineering Management, Master Academic Studies
19.	IM2715	Modeling and simulation in risk management	(OM1) Mathematics in Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
20.	IMDS72	Advanced risk assessment methods	(I22) Engineering Management, Specialised Academic Studies
21.	MPK009	Enviromental hazards	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
22.	MPK012	Solid waste management	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
23.	MPK014	Monitoring and system control	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
24. MPK019	Disaster risk management	(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engleskom), Master Academic Studies
25. ZCM06	Security of strategic energy facilities	(ZC0) Clean Energy Technologies, Master Academic Studies
26. IMDR72	Advanced risk assessment methods	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
27. ZRD233	Selected topics in the field of insurance from the standpoint of safety and health at work	(Z01) Safety at Work, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Marjanovic P., Miloradov M., Cukic Z., Sakulski D., Bogdanovic S.: "Integrated cadastre (Inventory System) for pollution sources in the Danube Basin in Yugoslavia", Water Science and Technology, Vol. 32 No 5-6 pp 265-275, IWA Publishing 1995
2.	Sakulski D.: "Web-enabled GIS in Disaster Management", The Global Magazine for Geomatics, May 2005, Volume 19, Number 5
3.	Sakulski D.: "Implementation of the multi-software solution for the on-the-fly calculation of the Standardized Precipitation Index (SPI) as a drought indicator for South African environment" ENVIROSOFT 2000, 2000, Bilbao, Spain
4.	Sakulski D., "Development and implementation of a database driven web-enabled integrated system for air quality observation and analysis", International Conference on Air Pollution, 2001, Ancona, Italy
5.	Sakulski D. Stephenson D, Marjanovic P.: "WebMathematica as a Core Service for the Calculation of the Drought Indicator for South Africa", The 5th International Mathematica Symposium, 2003, London, UK
6.	Sakulski D.: "South African National Disaster Hazard and Vulnerability ATLAS", International Conference on Disasters and Society – From Hazard Assessment to Risk Reduction, 2004, Karlsruhe, Germany
7.	Sakulski D.: "Geo-Information as an Integral Component of the National Disaster Hazard and Vulnerability ATLAS", First International Symposium on Geo-Information for Disaster Management, 2005, Delft, Netherlands
8.	Sakulski D.: "Analiza zaustavnog puta u funkciji merodavnog vozila", Put i saobraćaj, 1984
9.	Sakulski D.: "Ojačanje kolovoza upotrebom FW deflektometra", Put i saobraćaj, 1986
10.	Sakulski D., Katic Z.: "Klasifikacija oštećenja kolovoza", Put i saobraćaj, 1986

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

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

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 career	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	(G10) Geodesy and Geomatics, Undergraduate Academic Studies
3.	GI107	Mathematical Analysis 1	(G10) 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 (G10) Geodesy and Geomatics, Doctoral Academic Studies (H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic Studies (S00) Traffic Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies
20. AID07	Digital geometry	(F20) Engineering Animation, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Sladoje N., Lindblad J., Nystrom I.: Defuzzification of spatial fuzzy sets by feature distance minimization. , Image and Vision Computing, 2011, Vol. 29, No 2-3, pp. 127-141, ISSN 0262-8856
2.	Lukić T., Lindblad J., Sladoje N.: Regularized Image Denoising Based on Spectral Gradient Optimization, Inverse Problems, 2011, Vol. 27, No 8, pp. 8501-1, ISSN 0266-5611
3.	Sladoje N., Lindblad J.: High precision boundary length estimation by utilizing grey-level information , IEEE Transactions on Pattern Analysis and Machine Intelligence, 2009, Vol. 31, No 2, pp. 357-363, ISSN 0162-8828
4.	N. Sladoje and J. Lindblad, "Representation and Reconstruction of Fuzzy Disks by Moments", Fuzzy Sets and Systems, Vol. 158, No. 5, pp. 517-534, 2007.<leng>
5.	N. Sladoje, I. Nyström, and P.K. Saha, "Measurements of digitized objects with fuzzy borders in 2D and 3D", Image and Vision Computing, vol. 23, pp 123-132, 2005.<leng>
6.	J. Zunic and N. Sladoje, "Efficiency of Characterizing Ellipses and Ellipsoids by Discrete Moments", IEEE Trans. Pattern Analysis and Machine Intelligence, vol.22, No.4, pp 407-414, 2000.<leng>
7.	J. Chanussot, I. Nyström and N. Sladoje, "Shape signatures of fuzzy star-shaped sets based on distance from the centroid", Pattern Recognition Letters, vol. 26(6), pp. 735-746, 2005.<leng>
8.	Čurić,V., Lindblad, J., Sladoje, N., Sarve, H., Borgefors, B. A new set distance and its application to shape registration. Accepted for Pattern Analysis and Applications, 2012.
9.	Lindblad L., Sladoje N. Coverage Segmentation based on Linear Unmixing and Minimization of Perimeter and Boundary Thickness. Pattern Recognition Letters, Vol. 33, No.6, pp. 728-738, 2012.
10.	Malmberg F., Lindblad J., Sladoje N., Nystrom I.: A graph-based framework for sub-pixel image segmentation, Theoretical Computer Science, 2011, Vol. 412, No 15, pp. 1338-1349

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

Quotation total :	71
Total of SCI(SSCI) list papers :	21
Current projects :	Domestic : 2 International : 3

	UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6	
	Study Programme Accreditation MASTER ACADEMIC STUDIES Disaster Risk Management and Fire Safety	

Science, arts and professional qualifications

Name and last name:	Šević D. Dragoljub		
Academic title:	Assistant Professor		
Name of the institution where the teacher works full time and starting date:	Faculty of Technical Sciences - Novi Sad 15.03.2001		
Scientific or art field:	Quality, Effectiveness and Logistics		
Academic career	Year	Institution	Field
Academic title election:	2012	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
PhD thesis	2010	Faculty of Technical Sciences - Novi Sad	Quality, Effectiveness and Logistics
Magister thesis	2004	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering
Bachelor's thesis	1999	Faculty of Technical Sciences - Novi Sad	Mechanical Engineering

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

	ID	Course name	Study programme name, study type
1.	II323	Environmental management system	(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies
2.	II1016	Reliability of technical systems and Maintenance	(I10) Industrial Engineering, Undergraduate Academic Studies
3.	II1025	Design, Verification and Analysis of the Environmental Management System	(I10) Industrial Engineering, Undergraduate Academic Studies
4.	II1040	Organization and management of maintenance	(I10) Industrial Engineering, Undergraduate Academic Studies
5.	II1043	Maintenance techniques and technologies	(I10) Industrial Engineering, Undergraduate Academic Studies
6.	IM1036	Reliability Theory	(I20) Engineering Management, Undergraduate Academic Studies
7.	IM1037	Environmental Management System	(I20) Engineering Management, Undergraduate Academic Studies
8.	IM1615	Maintenance of Technical Equipment	(I20) Engineering Management, Undergraduate Academic Studies
9.	IM1620	Reverse and Green Logistic	(I20) Engineering Management, Undergraduate Academic Studies
10.	I501	Risk Management	(I10) Industrial Engineering, Master Academic Studies
11.	I841	Spare parts management	(I10) Industrial Engineering, Master Academic Studies
12.	IMDS95	Trends in Customer Relationship Management	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
13.	PLM10	Product Servicing and Maintenance	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
14.	LIM31	Reverse and Green Logistics	(LIM) Logistic Engineering and Management, Master Academic Studies
15.	IIDS12	Quality and organizational performance	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
16.	IIDS30	Trends in the environmental management systems	(I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies
17.	IIDS7	Selected topics in quality engineering and logistics	(I12) Industrial Engineering, Specialised Academic Studies
18.	IM2607	Risk management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies
19.	IM2620	Lean Maintenance	(I10) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies
20.	IMDS74	Selected Topics in Quality Management and Logistics	(I22) Engineering Management, Specialised Academic Studies
21.	ZP516	Technical Systems Reliability	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies
22.	IMDR94	Trends in the environmental management systems	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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

ID	Course name	Study programme name, study type
23.	IMDR95 Trends in Customer Relationship Management	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
24.	IMDR74 Selected Topics in Quality Management and Logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
25.	IMDR79 Selected topics in quality engineering and logistics	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
26.	IMDR83 Quality and organisational performance	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies

Representative references (minimum 5, not more than 10)

1.	Brkljač N., Šević D., Beker I., Kesić I., Milisavljević S.: Procedure for treatment of hazardous waste by MID-MIX procedure in Serbia, International Journal of the Physical Sciences, 2012, Vol. 7, No 18, pp. 2639-2646, ISSN 1992-1950
2.	Jocanović M., Šević D., Karanović V., Beker I., Dudić S.: Increased Efficiency of Hydraulic Systems Through Reliability Theory and Monitoring of System Operating Parameters, Strojniški vestnik - Journal of Mechanical Engineering, 2012, Vol. 58, No 4, pp. 281-288, ISSN 0039-2480
3.	D. Šević, I. Beker „Projektovanje greda na bazi pouzdanosti“, Naučno – stručni skup ISTRAŽIVANJE I RAZVOJ MAŠINSKIH ELEMENATA I SISTEMA – Jahorina – IRMES 2002., Srpsko Sarajevo – Jahorina, Septembar 2002
4.	D. Šević, I. Beker „Zahtevi standarda ISO 9000:2000 i njihova primena u održavanju“, XXVI Majski skup održavalaca Jugoslavije, Novi Sad, 22-24. maj 2002
5.	N. Stefanović, N. Radaković, D. Šević "Primena softverskog sistema za upravljanje poslovnim procesima na sistema menadžmenta kvalitetom ISO 9001:2000", XIII Naučna konferencija INDUSTRIJSKI SISTEMI IS 2005, Herceg Novi, Srbija i Crna Gora, Septembar 2005
6.	Ušćebrka G., Žikić D., Stojanović S., Šević D.: An Example of Model of Estimating the Level of Biological Risk On Farms Based On the Gap Requirements, Veterinary Medicine, , UDK: 619
7.	Šević D., Ušćebrka G., Milisavljević S., Brkljač N.: MODEL VREDNOVANJA ZNAČAJNOSTI UTICAJA NA ŽIVOTNU SREDINU SA STANOVNIŠTVA ZAHTEVA STANDARDA ISO 14001:2004, UDK: 658.5
8.	Šević D., Stefanović N., Prokopić L.: Upotreba podataka i informacija koji se odnose na vrednovanje učinka na zaštiti životne sredine, International Journal Total Quality Management
9.	Beker I., Stanivuković D., Šević D.: Postupak za ocenu uspešnosti održavanja , 26. Majski skup održavalaca Jugoslavije, Novi Sad: Fakulte tehničkih nauka, 1 Maj, 2002, str. 87-93, UDK: 621-772
10.	mr Dragoljub Šević, mr Slobodan Morača, M.Sc. Stevan Milisavljević "Planiranje učinka zaštite životne sredine", XIV Međunarodna naučna konferencija INDUSTRIJSKI SISTEMI IS 2008, Novi Sad, Srbija, 2-3. Oktobar 2008, str. 363-367, UDK 685.5, ISBN 978-86-7892-135-3

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

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



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Representative references (minimum 5, not more than 10)

10.	Trivunić, M. (1997): Assembly management as a part of the construction process. ?Construction Technology - Construction Management ?97? (editors: K.Delević, E.Malešević, Ž.Prašćević, J.Gyulay), Faculty of Civil Engineering Subotica, Faculty of Civil Engineering Beograd, Faculty of Civil Engineering Budapest, Faculty of Architecture Budapest, Subotica, June 3rd-4th 1997, pp.84-91.
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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

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

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 are held in such a manner so the minimum of 2 m² of space is provided per student.

Lectures are held in amphitheatres, classrooms, computer and specialized laboratories. The library has over 100 bibliographical units relevant for the study programme Risk and Fire Protection Management. There is also adequate equipment for all courses with the appropriate textbook literature, devices and supplementary equipment available on time and in a sufficient number for normal performance of the teaching process. Thereby, the adequate information technology is also available for performing the study programme and the materials from the lectures and practice as well as the use of lecturing material is available at the faculty website http://www.ftn.uns.ac.rs/_data/nastava).

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

**Study Programme Accreditation**

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. The Faculty of Technical Sciences has experience in making students' questionnaires for several decades.

Quality checks of curriculum are being implemented through:

- students' questionnaires at the end of the teaching process in respect of the given course.
- graduates' questionnaires on the occasion of receiving diplomas, regarding the quality of curriculum and logistic support of studies, place of studies (cleanness and tidiness of classrooms, hygiene nodes, ...)
- Students' questionnaires during the academic year validation.
- Students' questionnaires when enrolling the academic year. The students then assess the degree program which they ended in the previous year.
- questionnaires of the teaching and administrative staff on the quality of curriculum and logistics that are supporting the studies. In this questionnaire, the Dean, student services, libraries, and other departments of the Faculty are evaluated.

Study program quality monitoring is done through a Commission consisting of the department heads who participate in the implementation of a program, and one student representing each year of the study.



UNIVERSITY OF NOVI SAD

FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Disaster Risk Management and Fire Safety

Standard 12. Distance Education

Distance learning is not provided for.