

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



STUDY PROGRAMME ACCREDITATION MATERIAL:

COMPUTING AND CONTROL ENGINEERING

MASTER ACADEMIC STUDIES

Novi Sad 2012.

Prevod sa srpskog jezika:

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Kukolj D. Dragan	
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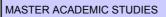


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Computing and Control Engineering
University of Novi Sad
Faculty of Technical Sciences
Technical-Technological Science
Electrical and Computer Engineering
Master Academic Studies
60
Master in Electrical and Computer Engineering, M.El.Comp.Eng.
1
2009
83
160
14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Serbian, English
2008
http://www.ftn.uns.ac.rs



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Standard 00. Introduction

The study programme of the Graduate Academic Studies – Master in Computing and Control Engineering in the field of Electrical and Computer Engineering is a continuation of the undergraduate academic studies of Computing and Control Engineering. The study programme is realised at the Department of Computing and Control Engineering of the Faculty of Technical Sciences, University of Novi Sad.

The study programme of Computing and Control Engineering is developed within three basic technical areas: automatic control and systems engineering, applied computer science and informatics and computer engineering and computer communications. The concept of the programme is defined in such a way that it educates future masters of engineering who will posses the knowledge which is necessary for practical work and which at the same time enables them to continue education at the corresponding specialist or doctoral studies.

The rapid development in the field of electrical and computer engineering has determined the structure and content of the study programme and the need to develop specializations in the specific areas of interest. The studies especially value independent work, encourage participation in practical professional and developmental projects within the laboratories and develop problem solving abilities. New, contemporary laboratories are established in cooperation with the renowned international companies: IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Leica, Schneider electric. In addition to the necessary theoretical and practical knowledge, all these activities provide the feeling of self confidence and completeness which is necessary for the successful integration in the professional environment.



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Standard 01. Programme Structure

The name of the master academic study programme is Computing and Control Engineering. The academic degree obtained is Master in Electrical and Computer Engineering. The structure of the programme enables the students to acquire the in-depth knowledge in the chosen area of interest, to gain the knowledge which will enable them to use professional literature, to apply the knowledge to practical professional problems as well as to continue their studies, if they decide to do so.

Admission requirements are the completion of the undergraduate studies worth at least 240 ECTS

Procedures for registration, ranking and enrolling of applied candidates are defined in the Regulations of student enrolment on study programmes.

Master academic study programme Computing and Control Engineering lasts one academic year and is evaluated with 60 ETCS credits. This study program is comprised of elective and olbigatory courses, professional praxis and master thesis. There are three study groups at Graduate academic - Master studies in Computing and Control Engineering:

- 1. Automatic Control and Systems Engineering,
- 2. Applied Computer Science and Informatics,
- 3. Computer Engineering and Computer Communications.

Students through elective courses are able to pursue their interests in the areas profiled during their undergraduate studies. Choosing minimum of 80% courses (credits) from the particular group of courses, students gain right for expertise in that area to be emphasized in Diploma supplement.

The Automatic Control and Systems Engineering module focuses on design, development and application of modern hardware and software solutions, system theory, signal processing and artificial intelligence in the field of automatic control, biomedical engineering and geoinformation systems and technologies through three groups of subjects: Automatic control, Biomedical engineering, Geoinformation systems. The Applied Computer Science and Informatics module focuses on providing the in depth knowledge necessary for the design, development and application of modern software technologies and systems. The need for the high level knowledge as well as the diversity and complexity of the required knowledge is met through additional specialization into four groups: Information systems, Internet and E-business, Software engineering and Intelligent systems.

The Computer Engineering and Computer Communications module focuses initially on acquiring generic knowledge in designing physical architecture, system software, intercomputer communications and architecture and algorithms of digital signal processors and then on developing students` abilities for design and development of dedicated computer structures and developing platforms and systems for real time operations.

Elective courses are chosen from the group of suggested courses but students can also choose, in accordance with the Head of the Study programme, certain courses offered by the Faculty of Technical Sciences, University of Novi Sad, or any other university in the country or abroad, according to their affiliations and wishes, if the prerequisites for attending that course are met.

Priority in choosing a study module is determined according to students' accomplishments and the number of students at a particular module can be limited in order to make most rational use of the available resources.

Each course lasts one term and is worth a certain number of ECTS credits where one credit is equivalent to approximately 30 hours of work (lectures, practice, preparation for examination, etc.).

Teaching is performed in the form of lectures and practical classes. The teaching process emphasizes students' independent and research work and their participation in the teaching process. During the lectures the subject matter is taught using the suitable didactic material but at the same time the students are introduced to the research trends in the given field. At the practice classes which accompany the lectures, particular practical tasks are solved and additional examples are given to further illustrate the topic. Practical classes also provide additional explanation of the topics presented at lecture classes. Practice can be auditory, laboratory, computer or computing. Practice classes can partially be conducted in a factory or other institution.

Student's work is followed and valued according to regulations adopted at the Faculty. The number of points earned is expresses according to uniform system and reflects the students' workload.

Each course is worth a certain number of ECTS credits and the Master studies are considered to be completed after the student has fulfilled all the obligations prescribed by the study programme and has attained the minimum of 60 ECTS credits.



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Standard 02. Programme Objectives

The purpose of the study programme is the education of students for the profession of electrical and computer engineer in the field of computing and control engineering in accordance to the needs of the society and the individual.

Computing and Control Engineering study programme is designed to ensure the acquired competences which are justified and useful for the society. The Faculty of Technical Sciences has defined the fundamental tasks and aims in educating highly competent professionals in the field of engineering. The purpose of the Computing and Control engineering study programme is in accordance with the basic tasks and aims of the Faculty of Technical Sciences.

Realization of the thus structured study programme educates engineers in the field of electrical and computer engineering who are competent at the European and international level.



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Standard 03. Programme Goals

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

Technical knowledge: The programme ensures the in -depth knowledge of at least one of the specialization areas: automatic control, system engineering, computer science, informatics, computer engineering and computer communications.

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

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

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

Preparation for professional involvement: Acquiring the necessary knowledge and developing awareness of the wide array of problems and obligations related to professional practice: safety, ethics, ecology and economy.



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Standard 04. Graduates` Competencies

Students with Master's degree in electrical and computer engineering who have completed Computing and Control Engineering study programme are have the competence to solve real life problems in practice as well as to continue education if they decide to do so. Their competences include, primarily, critical thinking, the ability to analyze a problem, synthesize a solution, predict the behaviour of the chosen solution with the clear idea of the advantages and disadvantages of the chosen solution.

Mastering the study programme the students acquire an in depth knowledge of at least one of the specialization areas: automatic control, system engineering, computer science, informatics, computer engineering and computer communications. The study programme qualifies students for solving practical problems using professional and scientific methods and procedures.

The students who have completed Computing and Control Engineering Master programme are capable of adequately writing about and presenting the results of their work.

The students who have completed this level of studies have the competence to apply their knowledge in practice and follow the new developments in their profession as well as cooperate with local community and international environment. Students with Master's degree in Computing and Control Engineering are capable of team work and development of professional ethics.

As a rule, the competence of students is additionally verified through at least one paper presented at a national conference on the topic of the Master thesis.



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Standard 05. Curriculum

The curriculum of graduate academic Master studies in Computing and Control Engineering is designed to fulfill all the defined objectives. The structure of the study programme ensures that the elective courses represent al lest 30% of ECTS credits

At the graduate academic studies students apply concrete problems of computing and control engineering to the specific problems of each of the study groups. Through elective courses they are able to pursue their interests in the areas profiled during their undergraduate studies.

Each course lasts one term and is worth a certain number of ECTS credits where one credit is equivalent to approximately 30 hours of work.

The curriculum defines each course in terms of its name, type of course, year and semester of studies, number of ECTS credits, name of the teacher, objectives of the course and expected outcomes, knowledge and competences, prerequisites for attending the course, content of the course, recommended literature, methods of teaching, types of evaluation and other.

The study programme is in line with European standards regarding admission requirements, duration of studies, enrolling the second year of studies, obtaining a diploma and mode of study.

Professional practice and practical work of 45 hours forms a constituent part of the curriculum and is carried out in suitable scientific and research institutions, innovation centres, organizations which provide infrastructure support for innovative activities, industrial and public institutions.

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

Prior to the defence of the thesis the candidate takes an exam on the theoretical and methodological bases usually before a committee formed for the defence. The final grade of the master thesis is formed on the basis of the grade on the theoretical and methodological bases and the grade on the production and defence of the thesis. Master thesis is defended before a committee of at least three professors of whom al least one has to be from another department or faculty.

As a rule, the student is expected to have at least one paper presented at a national conference on the topic of the Master thesis or, in exceptional cases, a paper at an international conference, or in a national or international journal.

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



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Table 5.2 Course specification

Course:								
Course id:	E2501		Electronic Payment Systems					
Number of ECTS:	6							
Teachers:		Sladić S. Goran, Vidaković P. Milan						
Course status:		Elective	Elective					
Number of active tead	hing classe	es (weekly	')					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	()	3	0	0			
Precondition courses			None					

1. Educational goal:

Students learn about the models and technologies for electronic payment systems. They gain the knowledge and skills to design the maintenance electronic payment systems.

2. Educational outcomes (acquired knowledge):

After successfully completing the course students are able to apply the principles, technologies and standards in the field of electronic payment systems. They are able to design and implement electronic payment systems, and improve existing electronic payment systems.

3. Course content/structure:

Payment system: organization, payment instruments, domestic and international payments, financial exchange network (TARGET, SWIFT), electronic payment system. Payment cards: types, payment cards associations, standards. Magnetic card: standards, structure, content, use, PIN codes, attacks on the card. Smart Cards: structure, types, standards, organization, modules, file system, keys, communication with card, Java smart card, attacks on the card. EVM standard: purpose, organization, smart card file system, data representation, EMV transactions. Online payments: general features, PayPal, Google Checkout, 3D Secure. Mobile payments: mobile payment systems, payment models, mobile EMV standard, Google Wallet. Fraud in electronic payment systems: online scams, evolution of fraud management and prevention of fraud, techniques for the fraud prevention.

4. Teaching methods:

Lectures, computer practice classes, consultations.

The exam is oral. The final grade is formed on the bases of the laboratory practice and oral part of the exam.

	Knowledge evaluation (maximum 100 points)									
	Pre-examination obligations		Mandatory	Points	Final exam		Mandatory	Points		
Project			Yes	50.00	Oral part of the exam		Yes	50.00		
	Literature									
Ord.	Ord. Author Title Publish						er	Year		
1,	D. O'Mahony, M. Peirce, H. Tewari	Electro edition		Systems	for E-Commerce, 2nd	Artech House		2001		
2,	C. Radu	Implen	nenting Elect	ronic Card	d Payment Systems	Artech House		2002		
3,	W. Rankl		Card Handbo			Wiley and Sons		2004		
4,	D. Montague		Essentials of Online Payment Security and Fraud Prevention John Wiley and Sc			John Wiley and Sor	ns	2011		
5,	D. Williams	Pro Pa	Pro PayPal E-Commerce			Apress		2007		
6,	EMVCo	EMV S	pecifications			EMVCo		2008		

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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:			- O 1					
Course id:	E2511		Fuzzy Systems					
Number of ECTS:	6							
Teacher:		Obradović J. Đorđe						
Course status:		Elective	Elective					
Number of active teaching classes (weekly)								
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3 0 3			3	0	0			
Precondition courses			None					

1. Educational goal:

Students become familiar with the concepts, techniques and chosen examples of the application of the fuzzy approach.

2. Educational outcomes (acquired knowledge):

Students acquire knowledge in the concepts taken from the fuzzy sets and fuzzy logic theory. Besides, they become familiar with certain approaches and methods of application.

3. Course content/structure:

Fuzzy sets. Fuzzy logic. Probability theory. Approximation decision making. Fuzzy aggregation operators, fuzzy relations, fuzzy clustering. Application in decision making, data search, shape recognition, control.

4. Teaching methods:

Lectures. Computer practice. Tutorial work.

The practical part of the course is evaluated through laboratory work by solving obligatory tasks. Students are encouraged to do additional tasks at their own will as well. The tasks are graded. A part of the subject matter that forms a unit can be taken as a partial exam-colloquium (from 2 to 4). The partial exam is a part of the examination. The student can take the next partial exam only if they have gathered at least 30% of points at the previous partial exam. Partial exams are taken in the written form. The final part of the examination is an oral exam. The grade at the exam is formed by adding all the points a student has gathered during the course: by attending the lectures, completing the obligatory tasks, papers, passing the partial exams and the final examination.

3									
Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Computer exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	30.00				
Homework	Yes	2.00							
Lecture attendance	Yes	3.00							
Project	Yes	25.00							
Project task	Yes	15.00							
Term paper	Yes	20.00							
		1 :4	-4						

		Literature		
Ord.	Author	Title	Publisher	Year
1,	G. J. Klir, B. Yuan	Fuzzy Sets and Fuzzy Logic	Prentice Hall, 1995, ISBN: 0131011715	1995
2,	Kwang H Lee	First Course on Fuzzy Theory and Applications	Springer-Verlag Berlin and Heidelberg GmbH & Co.K	2004



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Study Programme Accreditation

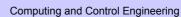




Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:								
Course id:	E2514		Biologicaly inspired computing					
Number of ECTS:	6							
Teachers:		Konjović D. Zora, Kovačević D. Aleksandar						
Course status:		Elective	Elective					
Number of active tead	hing classe	es (weekly	')					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	0 3 0 0							
Precondition courses	-		None					

1. Educational goal:

Students gain knowledge of the concepts, techniques and selected examples of evolutionary computing and in particular, genetic algorithms.

2. Educational outcomes (acquired knowledge):

The acquired knowledge enable problem solving by using evolutionary computing approach.

3. Course content/structure:

Evolutionary algorithm. Genetic algorithms. Evolutionary strategies. Evolutionary programming. Genetic Programming. Hybridization with other techniques, memetic algorithms. Koevolution, interactive evolution.

4. Teaching methods:

Lectures, computer practice classes, consultations.

The practical section of the course is evaluated in computer laboratory where students solve obligatory tasks. Students can also take optional tasks. The tasks are marked. Part of the course material which forms a logical whole can be taken as a partial exam – colloquium (2 to 4). A partial exam is a part of an exam. A student can take the next partial exam if he/she has attained at least 30% of points at the previous one. Partial exams are taken in written form. The final exam is taken in oral form. The final grade is formed on the bases of class attendance, obligatory tasks, assignments, partial exams and final exam grades.

Knowledge evaluation (maximum 100 points)								
Pre-examination obligations Mandatory Points Final exam Mandatory Points								
Complex exercises	Yes	45.00	Theoretical part of the exam	Yes	30.00			
Computer exercise attendance	Yes	5.00						
Homework	Yes	5.00						
Homework	Yes	5.00						
Homework	Yes	5.00						
Lecture attendance	Yes	5.00						
Literature								

		Literature		
Ord. Author		Title	Publisher	Year
1,	A.E. Eiben, J.E. Smith	Introduction to Evolutionary Computing	Springer-Verlag Berlin and Heidelberg GmbH & Co.K	2004
2,	Melanie Mitchell	An Introduction to Genetic Algorithms	The MIT Press, 1998, ISBN: 0262631857	1998



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Table 5.2 Course specification

Course:									
Course id:	E2519		Domain-Specific Languages						
Number of ECTS:	6								
Teachers:		Dejanovi	ć R. Igor, Milanović N. Nikola						
Course status:		Elective							
Number of active tead	hing classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	0		3	0	0				
Precondition courses			None						

1. Educational goal:

To teach students to design and implement software languages intended to be used in the specific domains (Domain-Specific Language – DSL) by using modern methods, techniques and tools.

2. Educational outcomes (acquired knowledge):

After successfully completing the course the student is able to: understand and effectively utilize the terminology and concepts of the subject area, apply methods and techniques for designing and implementing domain-specific languages??, identify the advantages and disadvantages of various tools for creating domain-specific languages??, analyze arbitrary domain of human activity and recognize the most important concepts and their interdependencies, based on analysis of the domain creates the abstract syntax of the DSL; utilize techniques to create different concrete syntax (graphical, textual, based on tables, dialogs, trees, etc...), identify the most appropriate syntax and implement it using the available tools, understand the impact of cultural and sociological profile of the user to the understandability of the concrete syntax, creates concrete syntaxes of a high degree of usability and readability by using knowledge about the human cognitive abilities.

3. Course content/structure:

Theoretical lectures: Basic definitions and concepts; difference between a General Purpose Language (GPL) and Domain Specific Language (DSL). External and internal DSLs. DSL as a set of coordinated models. History and development of DSLs; Traditional and modern notions of DSLs; Impact of DSL usage on productivity. Language Workbenches. Examples of DSLs. Domain analisys. Communication with domain experts; Techniques of recognition of key concepts from the domain description. Techniques of detecting the concepts relations. Abstract syntaxes, abstract syntax definition techniques, meta-modeling. Languages ??for meta-models definition (MOF, ECore, GOPPRR, MoRP). Concrete syntaxes, concrete syntax definition, concrete syntaxes as the interfaces with the user, textual concrete syntaxes (EBNF, Xtext, Emfatic); graphical concrete syntaxes (GMF, Graphite, Spray, Eugenio); automated layouting; Language expressions definition using wizards; Tree-based syntaxes; table-based syntaxes; hybrid syntaxes, cultural and social aspects of creating highly usable and readable concrete syntax; framework of cognitive dimensions and impact of human cognitive abilities on the language; semantic constraints definition; semantic rules check. Interpreters; dynamic analysis and interpretation of language expression; optimization techniques. Translators - code generators; language expression analysis techniques and code generation for arbitrary target platform; Template engines. Coevolution of language; Horizontal and vertical coevolution; change propagation from higher to lower meta-level, propagation of changes within the same meta-level between the dependent statement. Practical classes: design and creation of DSL for a given domain. The division into project teams. Domain analysis. Extracting key concepts and their relationships. Creating language abstract sy

4. Teaching methods:

Lectures, Computer exercises; Consultation. Design and implementation of project assignment by working within project teams. At the end of the semester, public presentations of the most successful teams are organized with the discussion of the obtained results. The defense of project assignment is oral. The final exam is oral. Final grade is based on the score from the final exam and project defense.

	Knowledge evaluation (maximum 100 points)									
	Pre-examination obligations		Mandatory	Points	Final ex	cam	am Mandatory			
Project	defence		Yes	50.00	Oral part of the exam		Yes	50.00		
				Liter	ature					
Ord.	Ord. Author Title						r	Year		
1,	Fowler, M.	Domai	n-Specific La	nguages		Addison-Wesley Pro	ofessional	2010		
2,	Parr, T.		n-Specific an		atterns: Create Your Own Il Programming	The Pragmatic Book	kshelf	2009		
3,	Kelly, S. & Tolvanen, JP.	Domai Gener		odeling: E	nabling Full Code	Wiley-IEEE Comput Pr	ter Society	2008		
4,	Evans, E.		Domain-Driven Design: Tackling Complexity in the Heart of Software			Addison-Wesley Pro	ofessional	2004		
5,	Völter, M. & Stahl, T.		-Driven Softw eering, Manag		lopment : Technology,	John Wiley & Sons		2006		
6,	Rubel, D.; Clayberg, E. & Wren, J.	The E	clipse Graphi	cal Editino	g Framework (GEF)	Addison Wesley Pro	ofessional	2011		



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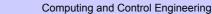




Table 5.2 Course specification

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Course:									
Course id:	E2521	Business Process Management							
Number of ECTS:	6								
Teachers:		Milosavljević P. Branko, Ivanović V. Dragan							
Course status:		Elective							
Number of active tead	ching classe	es (weekly	′)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses	-		None						

1. Educational goal:

Understanding the concepts and systems for managing business processes. Gaining the knowlegde and skills for design and implementation of business process management systems.

2. Educational outcomes (acquired knowledge):

Upon successful completion of the course students are able to apply the concepts of business process management in software systems design and implementation, to specify and implement business processes, and to analyze, simulate and improve them.

3. Course content/structure:

The notion of workflow and business processes. Petri-nets, graphical representation and mathematical model. Extensions of Petri-nets. Modeling business processes. Triggers. Managing resources. Workflow nalysis and verification. Workflow patterns. Workflow simulation and testing. Business process management systems. Tools for monitoring and administration of business processes. Standardization in workflow systems.

4. Teaching methods:

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

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points			
Project			Yes	50.00	Oral part of the exam		Yes	50.00			
	Literature										
Ord.	Author			Title	;	Publishe	ublisher				
1,	A.T.M. ter Hofstede, W.M.P. van der Aalst, M. Adams, N. Russell		n Business P rt Environme		utomation: YAWL and its	Springer		2009			
2,	W.M.P. van der Aalst, C. Stahl	Model Appro	0	Processe	s: A Petri Net-Oriented	MIT Press		2011			
3,	W.M.P. van der Aalst		ss Mining: Dis cement of Bu		Conformance and rocesses	Springer		2011			



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

Study Programme Accreditation





Computing and Control Engineering

MASTER ACADEMIC STUDIES

Table 5.2 Course specification

Course:									
Course id:	E2503		Data Mining and Data Analysis Systems						
Number of ECTS:	6								
Teachers: Kovačević D. Aleksandar, Nenadić M. Goran									
Course status:		Elective							
Number of active tead	hing classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	3 0		3	0	0				
Precondition courses			None						

1. Educational goal:

The aims of the course are: provide students with the knowledge of important concepts and techniques of data mining; make students capable of applying of data mining methods, tools and techniques.

2. Educational outcomes (acquired knowledge):

Students are acquainted with the important concepts and techniques of data mining and capable of data analysis, predictive model creation, development and maintenance of data mining systems.

3. Course content/structure:

Basic concepts and overview of the field of DM. Exploratory data analysis and visualization. Basic techniques of classification: decision trees, naive Bayes method, k-nearest neighbors and support vector machines. Advanced classification techniques: the classifier ensembles, bagging, boosting, semi-supervised learning. Classifier evaluation, automatic determination of the parameter values ??and selection of attributes. Clustering techniques: k-means, hierarchical clustering, dbscan algorithm. Discovering association rules: apriori and FP-growth algorithm. Review of the application of data mining: analysis of business data, web data analysis, recommendation systems (films, books, etc.), predictions in sport.

4. Teaching methods:

Lectures, computer practice classes, consultations.

The exam is oral. The final grade is formed on the basis of achievement on laboratory practice and oral exam.

	Knowledge evaluation (maximum 100 points)									
Pre-examination obligations			Mandatory	Points	Final e	xam	Mandatory	Points		
Project	Project			50.00	Oral part of the exam		Yes	50.00		
Literature										
Ord.	Author		Title			Publishe	r	Year		
1,	Pang-Ning Tan, Michael Steinbach, Vipin Kumar	Introdu	uction to Data	Mining		Addison-Wesley		2005		
2,	Daniel T. Larose	Data N	Ining Method	ds and Mo	odels	Wiley / IEEE Press		2006		
3,	David Hand, Heikki Mannila, Padhraic Smyth	Princip	oles of Data N	/lining		MIT Press		2001		
	1 i dumaio cinyti									



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

Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:									
Course id:	E2506	Advanced Internet Infrastructure							
Number of ECTS:	6								
Teachers:		Milosavlje	Milosavljević P. Branko, Milanović N. Nikola, Nenadić M. Goran						
Course status:		Elective							
Number of active tead	hing classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Students will be able to design and maintain network infrastructure in electronic business systems.

2. Educational outcomes (acquired knowledge):

Students will understand the functioning of Internet infrastructures for electronic business systems support. Students are competent for professional design and maintenance of Internet based networks.

3. Course content/structure:

IPv6 protocol: overview, protocols, implementation, routing and routing protocols, from IPv4 to IPv6, logic configuration of networks in Ipv6 environment. MPLS: overview, architecture, protocols, implementation. Mobile IP: overview, architecture, detail introduction to protocols and protocol extension, examples of implementation. Implementation of solutions for increasing network security: overview, concepts of solution application, traffic control at levels, data security, an example of VPN, QoS – resource allocation management in computer networks: overview, system architecture (LAN and WAN solutions), protocols, examples of implementation.

4. Teaching methods:

Lectures, computer and laboratory practice, consultations. The exam is oral. The final grade is formed on the bases of the laboratory practice and oral part of the exam.

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

	Literature										
Ord.	Author	Title	Publisher	Year							
1,	W. Stallings	High-Speed Networks and Internets	Prentice-Hall, 2002. ISBN 0-13- 032221-0	2002							
2,	W. Stallings	Network Security Essentials: Applications and Standards	Prentice-Hall, 2000. ISBN0-13- 016093-8	2000							
3,	J. Doyle, J. DeHaven Carroll	Routing TCP/IP	Cisco Press, 2001. 1-57870-	2001							



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Study Programme Accreditation

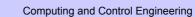




Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:			Protection and Recovery of Software Systems						
Course id:	E2509		stems						
Number of ECTS:	6								
Teacher:		Perišić R	. Branko						
Course status:		Elective							
Number of active teac	hing classe	s (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	C)	3	0	0				
Precondition courses			None						

1. Educational goal:

The objective of the course is to enable students to recognize the importance of complex software application, analysis, modeling and implementation of the authorization and protection mechanisms within complex software systems. Understanding the application of laws and regulations related to the protection and recovery of complex software systems.

2. Educational outcomes (acquired knowledge):

Identification, specification, modeling and implementation of protection and recovery mechanisms of complex software systems. After the exam has been taken and passed with success, students are able to design the mechanisms of protection and recovery within complex software systems and participate in the supervision and control of the computer system safety.

3. Course content/structure:

Terminology related to the protection, safety and security of software systems. Mechanisms and methods of authorization, protection and recovery of software systems. Modeling of protection mechanisms, design of protected software, dynamic configuration of software systems. Disaster recovery principles. Implementation of mechanisms of software protection and recovery. Standards and regulations in the domain of the protection of software systems. Discussing the responsibilities of all those involved in the process of the implementation of software protection and recovery.

4. Teaching methods:

The acquisition of knowledge happens gradually during the course and the students' work is evaluated through their achievement in a team project about the implementation of protection mechanisms within a chosen software system. The defense of team projects is public.

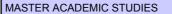
Knowledge evaluation (maximum 100 points)								
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points			
Laboratory exercise attendance	Yes	5.00	Written part of the exam - tasks and theory	Yes	50.00			
Lecture attendance	Yes	5.00						
Project	Yes	40.00						

	Literature								
Ord.	Author	Publisher	Year						
1,	Branko Perišić	Zaštita i oporavak softverskih sistema, u pripremi	Elektronsko izdanje-PDF,PPT	2007					
2,	Jon Toigo	Disaster Recovery Planning: Strategies for Protecting Critical Information Assets, 2nd Edition		2000					
3,	Steve McConnell	Code Complete, Second Edition	Microsoft Press	2004					



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Study Programme Accreditation



Computing and Control Engineering



Table 5.2 Course specification

Course:											
Course id:	E2522		Software Standardization and Quality								
Number of ECTS:	6										
Teachers:	Perišić R. Branko, Sladić S. Goran, Marković Milan, Okanović Đ. Dušan										
Course status:	Elective										
Number of active tead	ching classe	es (weekly)								
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:						
3	()	3	0	0						
Precondition courses			None								

1. Educational goal:

Acquiring basic knowledge in the field of software quality and standardization, as well as the knowledge about creation and the use of standards and technical regulations, and also certification of systems, processes and software products.

2. Educational outcomes (acquired knowledge):

The need for the creation and the use of standards and quality metrics. Ability to design and establish standardization of software systems. Ability to manage software standardization. Licencing and certification of software system, processes and products.

3. Course content/structure:

The concept of software standardization and quality metrics. Goals and principles of software standardization and quality assurance. Basic parameters of software systems standardization and quality. Models of the software systems standardization and quality.

4. Teaching methods:

Lectures; Consultations. Software project.

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	20.00					
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	20.00					
Project	Yes	40.00								
Term paper	Yes	10.00								
	Literature									

		Entorature		
Ord.	Author	Title	Publisher	Year
1,	Mile Pešaljević	Inženjerske komunikacije i logistika	FTN Novi Sad	1995
2,	G.Gordon Schulmeyer (Editor)	Handbook of Software Quality Assurance	Artech House	2007
3,	Michael West	Real Process Improvement Using the CMMI	Software Engineering Institute	2008
	-			-



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Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:											
Course id:	E2527		Business Intelligence								
Number of ECTS:	6										
Teachers:		Kovačevi	ovačević D. Aleksandar, Nenadić M. Goran								
Course status:		Elective	Elective								
Number of active tead	hing classe	es (weekly)								
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:						
3	()	3	0	0						
Precondition courses			None								

1. Educational goal:

The aims of the course are: provide students with the knowledge of important concepts and techniques of business intelligence and business analytics; make students capable of applying of business intelligence and business analytics methods, tools and techniques in order to improve the quality of business decisions.

2. Educational outcomes (acquired knowledge):

Students are acquainted with the important concepts and techniques of business intelligence (BI) and business analytics (BA) and are capable of applying business intelligence and business analytics methods, tools and techniques in order to improve the quality of business decisions.

3. Course content/structure:

Overview of the basic concepts of business intelligence. Collection, storage and integration of business data (data integration). Data quality management. The organization of knowledge in business systems (knowledge management). Exploratory analysis of business data, creating business reports and analysis, online analytical processing (OLAP) and visualisation. Introduction to the concepts and techniques of data mining for the analysis of business data and the creation of predictive models: classification, clustering, association rules, linear and logistic regression. Research and analysis of time series (time series mining). Complex event processing and data flow analysis (stream mining) - integrating and analysis of data from various sources: Web logs (web log mining), the analysis of clicks (click stream mining), stock, text, etc. in order to uncover opportunities or threats in making business decisions. Automatic detection of process models (process mining) - log analysis of business processes with the aim of automatic model detection. Analysis of the supply chains (supply-chain analytics). Automatic fraud detection in business systems. Decision support systems. Overview of Enterprise Resource Planning (ERP) systems. Analysis of multimedia data (multimedia mining). Text mining in business intelligence - information extraction from business reports; automatic identification of attitudes and emotions from text (opinion and sentiment mining).

4. Teaching methods:

Lectures, laboratory exercises, consultations. The exam is oral. Exam score is based on the success of the laboratory exercises and the oral exam.

Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final e	xam	Mandatory	Points		
Project			Yes	50.00	Oral part of the exam		Yes			
				Liter	ature					
Ord.	Author			Title	;	Publishe	r	Year		
1,	Efraim Turban,Ramesh Sharda, Dursun Delen, David King	Busines	ss Intelligend	ce		Prentice Hall		2010		
2,	Evan Stubbs	The Va		ess Analy	tics: Identifying the Path	Wiley		2011		
3,	Gert H. N. Laursen, Jesper Thorlund		Business Analytics for Managers: Taking Business Intelligence Beyond Reporting			Wiley		2011		
4,	Pang-Ning Tan, Michael Steinbach, Vipin Kumar	Introduction to Data Mining				Addison-Wesley		2005		
5,	Daniel T. Larose	Data M	ining Method	ds and Mo	odels	Wiley / IEEE Press		2006		

FAIRS STUDIO

UNIVERSITY OF NOVI SAD

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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:										
Course id:	E2507		Digital Archives							
Number of ECTS:	6									
Teachers:		Surla I. D	surla I. Dušan, Ivanović V. Dragan							
Course status:		Elective								
Number of active tead	hing classe	es (weekly	')							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	(0	3	0	0					
Precondition courses			None							

1. Educational goal:

Enabling students to design digital archives and document control systems.

2. Educational outcomes (acquired knowledge):

Students become familiar with the principles and techniques for the development of digital archives and document control systems. The student is able to design and develop digital archives and document control systems.

3. Course content/structure:

Digital archives: terminology, features. Document models: simple, structured, multi-lingual, multi-media. Models of document collections: centralized, distributed. Document filing. Searching document collections: searching models, query languages, indices, user interaction, implementation. Metadata and acquisition in distributed collections. Collaboration of users in document formation. Document flow control: models, implementation. Standards in the field of digital archives and document control. Document access control and DRM (digital rights management).

4. Teaching methods:

Lectures, Computer practice, Tutorials. The examination is oral. The final grade is formed based on the achievement at the laboratory practice and the oral examination.

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points			
Project			Yes	50.00	Oral part of the exam		Yes	50.00			
	Literature										
Ord.	Author		Title			Publishe	r	Year			
1,	R. Baeza-Yates, B. Ribeiro- Neto	Moder	n Information	Retrieval		Addison-Wesley, No	ew York	1999			
2,	L. Asprey, M. Middleton				ent Management: erprise Knowledge	Idea Group Publishi	ng	2003			
3,	A. Rockley		Managing Enterprise Content: A Unified Content Strategy New Riders					2002			



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Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:										
Course id:	E2508		Agile Software Development Methodology							
Number of ECTS:	6									
Teachers:		Milosavlje	filosavljević R. Gordana, Perišić R. Branko							
Course status:		Elective								
Number of active tead	hing classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

The objective of the course is to enable students to apply methods and tools for agile software system development and conduct a comparative analysis of the advantages and disadvantages when compared with the traditional approach. Fundamentals of modeling and realization of the generator code and applications.

2. Educational outcomes (acquired knowledge):

Students will acquire theoretical and practical knowledge necessary for the efficient application of the methods, techniques and tools for agile software system development. Agile software development, the design of tools for code generation based on abstract understanding of system functionality.

3. Course content/structure:

Approaches to agile software development. Methods and techniques of agile software development. Tools for agile software development. Code generators. The revision of the methodological approaches to software development (the relationship between the agile and traditional methods). The prototypical software development. Model driven architecture. Standardization of the functional and visual features of typical software systems and the design of software tools for design template generation.

4. Teaching methods:

The evaluation of knowledge is carried out continually during the semester in the form of checking the student's progress in a team project in a chosen software system. The project defense is public.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Computer exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	20.00				
Lecture attendance	Yes	5.00	Practical part of the exam - tasks	Yes	30.00				
Project	Yes	40.00							

Literature Ord. Title Publisher Author Year G. Milosavljević, Branko Metodologije brzog razvoja softvera, u pripremi Elektronsko izdanje-PDF,PPT 2007 1. 2, 2002 A.Cockburn Agile Software Development Addison-Wesley Balancing Agility and Discipline: A Guide for the 3, B. Boehm, R.Turner Addison-Wesley 2003 Perplexed MDA Explained - The Model Driven Architecture: 4. A.Kleppe, J.Warmer, W.Bast 2003 Addison-Wesley Prentice Hall 2006 5, S.L. Pfleeger Software Engineering Theory and Practice Mathew Robinson, Pavel 6. 2003 Swing, Second Edition Elektronsko izdanje-PDF Vorobiev



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Study Programme Accreditation





Table 5.2 Course specification

Course:										
Course id:	E2510		Software Configuration Management							
Number of ECTS:	6									
Teacher:		Dejanovi	ejanović R. Igor							
Course status:		Elective								
Number of active tead	hing classe	es (weekly	′)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

To make students capable of applying best practice, methods, techniques and tools in the domain of Software Configuration Management (SCM) with the emphasis on the SCM process introduction and improvement.

2. Educational outcomes (acquired knowledge):

At the end of the course students are capable of: introducing SCM best practice, methods and tools in the software development process, improve existing SCM process, analyze available tools and identify advantages and disadvantages of each, understand pros and cons of different version control systems, change management systems, build and release management systems, systems for managing alternative lines of development etc.

By using modern SCM tools and by the development and documentation of SCM process and the development of supporting application, students acquire a broad range of practical skills.

3. Course content/structure:

Theoretical lectures: Basic definitions and historical development of Configuration Management - CM. Traditional notion of CM; Identification of configuration, change control, status accounting, audit and verification. Configuration management in the context of software development (Software Configuration Management - SCM). Source code management; Version Control System - VCS; architectures, advantages and disadvantages: social coding; repository models; concurrent change management models; alternative development courses. Dependency management. Build management, automation, tools. Change Management; Events; Requests for change tracking; support systems. Issue management; identification; traceability; automation. Deployment: identification, authentication, security, planning. Industrial standards and frameworks. Models of maturity. Practical classes: file compare tool patch and diff. Centralized version control systems (Subversion). Distributed version control systems (Git, Mercurial). Tools to support issue tracking (Trac). Code review (ReviewBoard, Rietveld, Gerrit, barkeep). Tools for automated build (Apache Ant + Ivy, Maven). Systems for continuous integration (Jenkins). The design and documentation of the SCM process in accordance with the recommended practice. Creating Web applications to support the proposed SCM process.

4. Teaching methods:

Lectures, Computer exercises; Consultation. Design and implementation of project assignment by working within project teams. At the end of the semester, public presentations of the most successful teams are organized with the discussion of the obtained results. The defense of project assignment is oral. The final exam is oral. Final grade is based on the score from the final exam and project defense.

	Knowledge evaluation (maximum 100 points)										
Pre-examination obligations			Mandatory	Points	Final ex	kam	am Mandatory				
Project			Yes	50.00	Theoretical part of the ex	am Yes		50.00			
	Literature										
Ord.	Author			Title	•	Publishe	er	Year			
1,	A. Mette, J. Hass	Config	uration Mana	gement F	Principles and Practice	Addison Wesley		2003			
2,	Aiello, R. & Sachs, L.		Configuration Management Best Practices: Practical Methods that Work in the Real World			Addison-Wesley Pro	ofessional	2010			
3,	Berczuk, S. & Appleton, B.		are configurat ve teamwork,		gement patterns: integration	Addison-Wesley Pro	ofessional	2003			
4,	DoD USA	Config	Configuration management guidance			Department of Defe States of America	nseUnited	2001			
5,	Chacon, S.; Hamano, J. & Pearce, S.	Pro Gi	Pro Git			APress		2009			
6,	Reelsen, A.	Play F	ramework Co	okbook		Packt Pub Limited		2011			

SECTION STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:									
Course id:	E2512		Neural Networks						
Number of ECTS:	6								
Teacher:		Obradov	bradović J. Đorđe						
Course status:		Elective	Elective						
Number of active tead	ching classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	(0	3	0	0				
Precondition courses	•		None						

1. Educational goal:

Students become familiar with the concepts, techniques and chosen examples of the application of neural computing.

2. Educational outcomes (acquired knowledge):

Students acquire the knowledge about the basic concepts in neural computing. Besides, they become familiar with certain approaches and methods of application.

3. Course content/structure:

Neural model and network architecture. Neural network training. Associative learning. Competitive networks. Hopfield networks. RBF networks. SVM. Busting techniques. Committee machines. Applications.

4. Teaching methods:

Lectures. Computer practice. Tutorial work.

The practical part of the course is evaluated through laboratory work by solving obligatory tasks. Students are encouraged to do additional tasks at their own will as well. The tasks are graded. A part of the subject matter that forms a unit can be taken as a partial exam-colloquium (from 2 to 4). The partial exam is a part of the examination. The student can take the next partial exam only if they have gathered at least 30% of points at the previous partial exam. Partial exams are taken in the written form. The final part of the examination is an oral exam. The grade at the exam is formed by adding all the points a student has gathered during the course: by attending the lectures, completing the obligatory tasks, papers, passing the partial exams and the final examination.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Computer exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	30.00				
Homework	Yes	2.00							
Lecture attendance	Yes	3.00							
Project	Yes	25.00							
Project task	Yes	15.00							
Term paper	Yes	20.00							
Literature									

Ord.	Author	Title	Publisher	Year
1,	Simon Haykin	Neural Networks: A Comprehensive Foundation	Pearson US Imports & PHIPEs, 1998,ISBN:0139083855	1998
2,	Shun-ichi Amari, Nikola K. Kasabov	Foundations of Neural Networks, Fuzzy Systems and Knowledge Engineering	The MIT Press, 1997, ISBN: 0262112124	1997



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Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:										
Course id:	E2513		Semantic Web							
Number of ECTS:	6									
Teachers:		Konjović	čonjović D. Zora, Milanović N. Nikola							
Course status:		Elective	Elective							
Number of active teac	hing classe	s (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	0	3		0	0					
Precondition courses			None							

1. Educational goal:

Students gain knowledge of the concepts, techniques and selected examples of semantic web applications.

2. Educational outcomes (acquired knowledge):

The acquired knowledge enable the implementation of software systems which support intelligent selection, approach and processing of information on the Web.

3. Course content/structure:

Introduction: Structure syntax and semantics. Need for semantics on the Web. Meta-programming, meta-data, XML, XSLT, RDF. Semantics, Semantics and knowledge, Ontologies, Logics, Deduction, Domain modelling, Context, Distributed knowledge. Classification. Knowledge based protocols. Technologies. Ontology tools, Ontology software (API). OWL. SPARQL. Methodologies. Methodologies for ontology engineering. Methodologies for introducing knowledge management systems. Methodologies of developing semantic systems. Semantic systems. Semantic Web Portals. Semantic Wiki. Semantic Multi-Agent Systems. Semantic Web Browsers. Applications: bioinformatics, document management systems, information search, etc.

4. Teaching methods:

Teaching methods include: lectures, computer practice classes, homework assignments and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at computer practice classes through assignments which students do independently or with the help of teaching assistants as well as through homework assignments (obligatory or optional). A student is expected to demonstrate the ability of independent task solving or understanding of the solution. The evaluation is in the form of oral conversation with the teaching assistant. The course lecturer and assistant have consultations with the students. During the consultations the students are given additional explanations of the material covered at the lecture and practice classes, and in case the consultations relating to independent work on laboratory or homework tasks, the suggestions are given on ho

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Complex exercises	Yes	10.00	Theoretical part of the exam	Yes	30.00				
Computer exercise attendance	Yes	5.00							
Lecture attendance	Yes	5.00							
Project	Yes	50.00							

Literature

Ord.	Author	Title	Publisher	Year
1,	G. Antoniou, F. Van Harmelen	A Semantic Web Primer (Cooperative Information Systems S.)	The MIT Press ISBN: 0262012103	2004
2,	Shelley Powers	Practical RDF	OReilly	2003
3,	John Davies	Towards the Semantic Web: Ontology-driven Knowledge Management	John Wiley and Sons Ltd, ISBN: 0470848677	2002



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MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:										
Course id:	E2517		Database Management Systems							
Number of ECTS:	6									
Teacher:		Luković S	uković S. Ivan							
Course status:		Elective	Elective							
Number of active tead	hing classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

Advanced education of students in the field of Database Management Systems (DBMS) applications, and database (DB) administration, with the possibility of their easy involvement in industry projects in the field of database system development.

2. Educational outcomes (acquired knowledge):

Acquiring of skills and knowledge necessary for the application of DBMSs in practice and database administration.

3. Course content/structure:

Features and tasks of DBMSs. Physical architecture of a DBMS. Memory management in a DBMS. File management in a DBMS. Physical database organization and performance management. Techniques for the usage of views, sequence generators and indexes at the DB server. Advanced SQL capabilities for database updates and queries. Query optimizers. Mechanisms for providing DB security and safety. DB backup, restore and recovery. Implementation of distributed databases. Software tools for database administration.

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00				
Complex exercises	Yes	10.00							
Complex exercises	Yes	10.00							
Complex exercises	Yes	10.00							
Presentation	Yes	10.00							
Term paper	Yes	20.00							

Literature Ord. Author Title Publisher Year Addison Wesley 2004 Date C. J. An Introduction to Database Systems (8th Edition) 2, Ramakrishnan R., Gehrke J. **Database Management Systems** McGraw Hill, Inc 2000 Mogin P, Luković I, 3. Principi projektovanja baza podataka FTN Izdavaštvo 2004 Govedarica M Priručnici za obezbeđenje administriranja izabranim 4, 2005 Grupa autora 5, Bryla Bob, Loney Kevin Oracle Database 11g DBA Handbook Oracle Press 2007 Microsoft SQL Server 2008 Management and 6. Ross Mistry Sams Publishing 2009 Administration



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MASTER ACADEMIC STUDIES

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Table 5.2 Course specification

Course:										
Course id:	E2502		Data Warehouse Systems							
Number of ECTS:	6									
Teacher:		Luković S	ković S. Ivan							
Course status:		Elective	Elective							
Number of active tead	hing classe	es (weekly	')							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

Advanced students' education in the Data Warehouse (DW) system development and its application in Business Intelligence, i.e. software support of strategic and tactic management in organization systems.

2. Educational outcomes (acquired knowledge):

To gain necessary skills and knowledge for the design and implementation of business intelligence and data warehouse systems in industry practice, as well as coupling DW systems with decision support systems.

3. Course content/structure:

Characteristics, tasks and application domains of DW systems. Strategic system analysis as a prerequisite for the development of DW and business intelligence systems. Planning the DW system development process. A common methodology of the DW system development. A common DW system architecture. Enterprise DW systems and Data Mart systems. A common structure and the design of database schemas for DW systems. Methods and techniques of the initial load and subsequent refreshing of a DW database. Extraction, transforming and loading data into a DW database – ETL process. Computation of aggregated data in DW databases. Database Management Systems' mechanisms aimed at providing various DW system implementations. Preserving operational performances of DW systems. Decision support systems. OLAP tools and data analyses. Reporting techniques and tools. Data Mining techniques and tools in DW systems.

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00				
Complex exercises	Yes	10.00							
Exercise attendance	Yes	5.00							
Project	Yes	30.00							
Project task	Yes	15.00							

Literature Ord. Author Title Publisher Year Inmon W. H. Building The Data Warehouse (3rd Edition) John Wiley & Sons, Inc, USA 2002 1, 2, Ramakrishnan R., Gehrke J. **Database Management Systems** Mc Graw Hill 2000 The Data Warehouse Toolkit: The Complete Guide to Kimball R., Ross M. John Wiley and Sons, Inc. 2002 3 Dimensional Modeling (2nd Edition) Priručnici za obezbeđenje upotrebe izabranog 2005 4, Grupa autora softverskog alata za razvoj DW sistema. Golfarelli Matteo, Rizzi, Data Warehouse Design: Modern Principles and 5. McGraw-Hill 2009 Stefano



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MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:			Software Based Business Process Modeling						
Course id:	E2518								
Number of ECTS:	6								
Teacher:		Luković S	S. Ivan						
Course status:		Elective	Elective						
Number of active tead	ching classe	es (weekly	′)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Students gain advanced knowledge in the field of software based business process modeling and the implementation of service oriented software architectures. Adopting knowledge about languages and techniques for business process modeling and process model transformations into specifications of software system architectures.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in practice, particularly in projects including system specification and development. It is applicable in all problem domains, where it is necessary to create business process models and then use them to specify architectures of complex software systems or optimize the business processes themselves.

3. Course content/structure:

A notion, characteristics, and a role of business process in organization systems. Basic motives, origins and principles of business process modeling. Business process and user requirement analysis. Business rules and business rule models. Business process flows and document flows in business processes. Business process engineering and document engineering. Business process modeling languages and techniques. Business process modeling and execution languages BPMN and BPEL. Concepts of Service Oriented Architectures (SOA). SOA languages. Tranformations of BPMN specifications to BPEL and service orchestration. Software environments for business process modeling and specification of software architecture SOA aspects. Evaluation of effectiveness and re-engineering of business process models.

4. Teaching methods:

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

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

	Literature							
Ord.	Author	Title	Publisher	Year				
1,	Sharp Alec, McDermott Patrick	Workflow Modeling: Tools for Process Improvement and Application Development, 2nd Edition	Artech House, Inc.	2008				
2,	Silver Bruce	BPMN Method and Style, 2nd Edition, with BPMN Implementer's Guide: A structured approach for business process modeling and implementation using BPMN 2.0	Cody-Cassidy Press	2011				
3,	Pant Kapil, Juric Matjaz	Business Process Driven SOA using BPMN and BPEL: From Business Process Modeling to Orchestration and Service Oriented Architecture	Packt Publishing Ltd.	2008				
4,	Udayakumar Kathiravan	Oracle SOA Infrastructure Implementation Certification Handbook (1Z0-451)	Packt Publishing Ltd.	2012				

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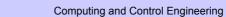




Table 5.2 Course specification

Course:										
Course id:	E2505		Multimedia Systems							
Number of ECTS:	6									
Teachers:		Ivetić V.	Ivetić V. Dragan, Suvajdžin Rakić B. Zorica, Mihajlović R. Dragan							
Course status:		Elective								
Number of active tead	ching classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

Enabling students to collect, handle, archive, programme, synchronize and present multimedia data flow in the network environment.

2. Educational outcomes (acquired knowledge):

Acquired knowledge and skills are used for development/use of software/systems of expressed multimedia.

3. Course content/structure:

Multimedia (concepts, characteristics and media data flow). Characteristics of audio/video/image-graphic media (music-MIDI; speech; video-TV and HDTV / 3D). An overview of standards for compression and optical storage (standard algorithms; JPEG2000 and MPEG 1, 2, 4, 7 and 21; CD DA-ROM-WO-RW; DVD; holograph). MM communication systems (timer-user-control space and CSCW; requirements and limitations of the protocol on presentation-application and network-transportation ISO-OSI levels) and videoconference. MM data base (structures and operations). Synchronization of MM data (four-layer reference model and distributed systems). Program abstraction, tools and applications (programme and script languages; authoring systems and MM kiosk).

4. Teaching methods:

Lectures, Computer Practice, Consultations. The course is organized in 2 wholes which are checked in the form of 2 tests during the lectures. During Practice, multimedia contents are presented and manipulated on programs (DirectX or OpenGL) or authoring (Flash) levels, creating simple systems for exchange of multimedia contents in real time. The quality of the Practice work is evaluated. Successfully solved exercises are the examination prerequisites. The examination is taken in the written form. Points won at the examination, tests and prerequisites are added to form the final grade.

Knowledge evaluation (maximum 100 points)

	Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final exam Mandatory			Points	
Comple	ex exercises		Yes	50.00	Theoretical part of the ex	kam	Yes	30.00	
Test			Yes	10.00					
Test			Yes	10.00					
				Liter	ature				
Ord.	Author		Title			Publishe	r	Year	
1,	D. Ivetić				sa elementima lije, u pripremi			2012	
2,	R. Steinmetz, K. Nahrstedt		Multimedia: Computing, Communiactions Applications			Pretince Hall		1995	

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Table 5.2 Course specification

Course:										
Course id:	E2516		Virtual Reality Systems							
Number of ECTS:	6									
Teachers: Ivetić V. Dragan, Mihajlović R. Dragan										
Course status:		Elective								
Number of active tead	ching classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	C)	3	0	0					
Precondition courses None										

1. Educational goal:

Students are enabled to design and implement the systems of virtual/augmentative reality.

2. Educational outcomes (acquired knowledge):

The acquisition of skills and knowledge necessary for the development of systems of virtual/augmentative reality with practical work experience with non-immersive devices.

3. Course content/structure:

Milgram real-virtuality continuum and the metrics of virtuality/augmenticity, the elements of VR systems, VR devices- the immersive and non-immersive class, 3D audio, 3D video and tactile devices, the techniques of body, head, limb and eye monitoring, VR/AR interactivity, the techniques of programming VR systems with examples (VRML, X3D, Cortona SDK), examples of VR systems, systems of augmentative reality, the basic AR system architecture, examples of AR systems, the basic concepts of ubiquitous computing systems.

4. Teaching methods:

Lectures, computer practice, tutorial work. The subject matter is organized into two units which are evaluated through 2 tests during the course. In the computer practice classes students will use programs (DirectX/OpenGL/X3D) or the up-to-date authoring system to develop simple VR/AR environments with non/semi/immersive devices. Successfully completed practice is the requirement that has to be met before taking the examination. The examination is taken in the written form. The points gathered at the exam, tests and computer practice are added, forming the final grade.

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

	Literature								
Ord.	Ord. Author Title		Publisher	Year					
1,	D. Ivetić	Osnovi interaktivnih sistema sa elementima računarske grafike i multimedije, u pripremi		2007					
2,	Mel Slater, Yiorgos Chrysanthou, Anthony Steed	Computer Graphics And Virtual Environments - From Realism to Real-Time	Addison-Wesley	2002					

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Table 5.2 Course specification

Course:			Parallel and distributed architectures						
Course id:	E2529								
Number of ECTS:	6								
Teacher:		Hajduković P. Miroslav							
Course status:		Elective							
Number of active tead	hing classe	es (weekly	′)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	0		3	0	0				
Precondition courses	econdition courses None								

1. Educational goal:

Prepartion of students to use parallel and distributred compter architectures.

2. Educational outcomes (acquired knowledge):

Ability of students to use parallel and distributed computer architectures.

3. Course content/structure:

Parallelism classification. Parallelism abstractions. Parallelism expression ways and tools. Parallel and distributed computer architecture case studies and their programming characteristics.

4. Teaching methods:

Lectures, computer practice. Consultations. Pre exam assignments include four tests and one course project. The final examination test the theoretical part of the course material. The number of points for obtaining a signature is 30.

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

Literature								
Ord.	Author	Title	Publisher	Year				
1,	G.R. ANDREWS	Foundation of Multithreaded, Parallel and Distributed Programming	Addison-Wesley	2000				
2	Y C Lin L Snyder	Principles of parallel programming	Pearson/Addison-Wesley	2008				



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Table 5.2 Course specification

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Course:									
Course id:	E2534		L	ata Compression					
Number of ECTS:	6								
Teachers:		Ivetić V.	lvetić V. Dragan, Popov B. Srđan						
Course status:		Elective	Elective						
Number of active tead	hing classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	(3		0	0				
Precondition courses			None						

1. Educational goal:

Students learn about principles, techniques, and methods of lossless and lossy data compression.

2. Educational outcomes (acquired knowledge):

Acquiring the basic knowledge in data compression. The acquired skills are used for development of software that uses binary data, text, image, video compression.

3. Course content/structure:

Data compression principles and techniques. Huffman coding. Arithmetic coding (JBIG). Dictionary techniques - implicit/explicit dictionaries (LZ77, LZ78, LZW). Prediction coding. Lossy compression - distortion criteria. Scalar quantization. Vector quantization. Differential encoding (DPCM, delta modulation, speech coding). Transform coding (DCT, wavelet). Subband coding. Application of data compression techniques.

4. Teaching methods:

Lectures, computer practice, consultations. The course material is divided into two parts and is tested in two tests during the duration of the course. In practice classes programs are created that implement compression techniques: general data compression, image compression, audio/speech compression. Successfully completed practice tasks are a prerequisite for taking final examination. The final examination is written. The final grade is based on the number of points on the examination, tests and practice tasks.

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

Literature							
Ord.	Author	Title	Publisher	Year			
1,	Dragan Ivetić	Kompresija podataka	-	2005			
2,	Khalid Sayood	Introduction to Data Compression		2012			



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MASTER ACADEMIC STUDIES

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Table 5.2 Course specification

Course:		Algorithms and DSP platforms in computer communications											
Course id:	RT510												
Number of ECTS:	6												
Teacher:		Temerinac R. Miodrag											
Course status:		Elective											
Number of active teaching classes (weekly)													
Lectures:	Practical classes:		Other teaching types:	Study research work:	Other classes:								
3	0		3	0	0								
Precondition courses			None										

1. Educational goal:

Develoment methods for algorithms of computer communications and their implementation on DSP platforms

2. Educational outcomes (acquired knowledge):

Capability of requirement analysis, development and implementation of algorithms in computer communications

3. Course content/structure:

Analysis and categorization of algorithms in computer communications. Development methodology and implementation for algorithms in computer communications. Overview and systematization of DSP platforms. Algorithm implementation methods on DSP platforms. Computer simulation tools and DSP implementation tools. Lab experiments.

4. Teaching methods:

Choice and analysis of technical data by adviser support. Solving of projects defined by adviser. practical lab works on experiments defined by adviser. Writing of technical reports.

Knowledge evaluation (maximum 100 points)													
Pre-examination obligations			Mandatory	Points	Final exam		Mandatory	Points					
Project			Yes	50.00	Oral part of the exam		Yes	50.00					
	Literature												
0	rd.	Author		Title			Publisher		Year				
	1,	group of authors	chosen professional books					2012					
	2, group of authors chosen technic			n technical pa	apers and	datasheets			2012				



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Table 5.2 Course specification

Course:			Inter Computer Communications and Computer Networks 2					
Course id:	RT57	Inte						
Number of ECTS:	6							
Teacher:	Teacher: Popović V. Miroslav							
Course status:		Elective	Elective					
Number of active tead	hing classe	es (weekly	')					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	()	3	0	0			

Precondition courses

1. Educational goal:

Teaching students to design, implement and test components of Internet technology and communication systems based on Internet technology.

2. Educational outcomes (acquired knowledge):

Ability to design, implement and test components of Internet technology and communication systems based on Internet technology.

3. Course content/structure:

Introduction. Part 1: Communication Protocol Engineering (Requirements. Design. Implementation. Test and Verification.) Part 2: Internal components of Internet technology (System of protocol converters of Internet core. Autonomous systems and confederations within Internet. Interior routing protocols. Security protocols. Internet management protocols. Internet of the Future.) Part 3: Systems based on Internet technology (Contact centers. Service Oriented Architecture.)

4. Teaching methods:

Lectures, Tutorials, Computer practice,. Consultations

The course material is presented in two blocks. In the first block the students attend theoretical classes in the morning sessions. In the afternoon they attend practical classes. In the second block students develops the final exam paper.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Laboratory exercise attendance	Yes	5.00	Theoretical part of the exam	Yes	30.00				
Lecture attendance	Yes	5.00							
Project	Yes	50.00							
Test	Yes	10.00							

	Literature								
Ord.	Author	Title	Publisher	Year					
1,	Miroslav Popović	Communication Protocol Engineering	CRC Press	2006					
2	Daglas Komer	TCP/IP Internet		2005					



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Table 5.2 Course specification

Course:									
Course id:	RT58		Dedicated Computer Structure Design 2						
Number of ECTS:	6								
Teachers:	eachers: Kovačević D. Vladimir, Atlagić S. Branislav								
Course status:		Elective	Elective						
Number of active tead	ching classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	(3		0	0				
Precondition courses			None						

1. Educational goal:

Students will learn about the basics of designing dedicated computer structure using VHDL language and programmable structures.

2. Educational outcomes (acquired knowledge):

Students know the basic standards and technologies requires for designing dedicated computer structures and are able to use VHDL language of multiprocessor computer structures.

3. Course content/structure:

Real time design of computer supported systems. Design using VHDL, FPGA, CPLD, PLD based functional units. Design of digital comutator components using programmable logic structures.

4. Teaching methods:

Lectures, Tutorials, Computer practice,. Consultations

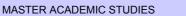
During the term students attend lectures and computer practice classes.

	Knowledge evaluation (maximum 100 points)									
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points		
Homew	Homework Yes 30.00			30.00	Coloquium exam		No	40.00		
	Theoretical part of the exam						Yes	30.00		
					Practical part of the exan	n - tasks	Yes	40.00		
				Liter	ature					
Ord.	Author		Title Publishe			er	Year			
1,	B. Atlagić	Projektovanje namenskih računarskih struktura 2, skripta					2007			



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Table 5.2 Course specification

Course:									
Course id:	RT59		Real-Time System Design						
Number of ECTS:	6								
Teachers:		Kukolj D. Dragan, Kovačević V. Jelena, Pap I. Ištvan							
Course status:	s: Elective								
Number of active tead	hing classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Students gain knowledge of the real time systems and are able to design and realize simple systems of this kind.

2. Educational outcomes (acquired knowledge):

Knowledge of the fundamental concepts, standards and technologies in this field as well as the ability to design and realize simple real time systems.

3. Course content/structure:

Introduction. Definition and classification of real time systems. Specific characteristics of real time systems. Interaction of real time systems with physical environment, process highway. Redundant and distributed system architecture in real time. Methods of verification and testing of real time systems. Expert real time systems, fuzzy control. Design of acquisition control systems (system configuration, applicative control for continuous and batch control ISA S-88 standard, simulation environment for development and testing application software). Design of control telecommunication networks. Systems for aircraft control in air traffic.

4. Teaching methods:

Lectures, tutorials, computer practice classes, consultations. During the semester students attend lecture and computer practice classes

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

		Literature		
Ord.	Author	Title	Publisher	Year
1,	Branislav Atlagić	PROJEKTOVANJE SISTEMA ZA RAD U REALNOM VREMENU, skripta		2005



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Table 5.2 Course specification

Course:									
Course id:	AU502		Distributed Control Systems						
Number of ECTS:	6								
Teachers:	ners: Erdeljan M. Aleksandar, Vukmirović M. Srđan, Čapko Lj. Darko								
Course status:		Elective	Elective						
Number of active teac	hing classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						
	•		-		•				

1. Educational goal:

Students get theoretical and practical knowledge about distributed control systems.

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2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used for solving concrete engineering problems and foe practical applications.

3. Course content/structure:

Introduction to distributed control systems – DCS (definitions, characteristics, architecture). Communication subsystem (function, communication networks, protocols, realization). DCS in the automation of processes and plants (hierarchical levels, data bases, DCS realization, human machine interface, supervisory control and data acquisition systems – SCADA). Communications in industry and characteristics of industrial communication networks. Operation of DCS in real time. Closed loop control over communication network. open DCS and subsystem integration.

4. Teaching methods:

Lectures, computer and laboratory practice, consultations. The theoretical part of the course is examined orally by students' answering problem questions. The oral part is worth 30 points and is based on a set of exam questions. The practical part of the exam is taken in the computer laboratory (colloquium) and through homework assignments. The final grade is formed on the basis of the results of the colloquium and the programming tasks, the quality of the homework and the oral part of the exam.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Project	Yes	30.00	Oral part of the exam	Yes	30.00				
Test	Yes	10.00		<u>.</u>					
Test	Yes	10.00							
Test	Yes	10.00							
Test	Yes	10.00							
Literature									

	Literature								
Ord.	Author	Title	Publisher	Year					
1,	A. Erdeljan	Štampani materijal koji pokriva izlaganja i vežbe	FTN	2005					



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Table 5.2 Course specification

Course:									
Course id:	AU511		Adaptive and Advanced Control						
Number of ECTS:	6								
Teachers:		Rapaić R. Milan, Jeličić D. Zoran							
Course status:	Elective								
Number of active tead	hing classe	es (weekly	')						
Lectures:	Practical classes:		Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Acquisition of theoretical and practical fundamentals of linear regulator and estimator design, servo-regulators, adaptive and other modern control structures.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving concrete engineering problems and is a basis for further professional and scientific development.

3. Course content/structure:

Principles of state space regulator design. Principles of state and disturbance estimation. Structure of adaptive control systems. Direct and indirect adaptive control. Parameter estimation. Model reference adaptive control. Auto-tuning regulators and self-adaptive systems. Principles of predictive control.

4. Teaching methods:

Lectures, numerical calculation practice, computer practice classes, laboratory practice, consultations.

Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations			Points	Final ex	kam	Mandatory	Points
Project			Yes	30.00	Coloquium exam		No	40.00
					Oral part of the exam		Yes	30.00
					Practical part of the exan	n - tasks	Yes	40.00
				Liter	ature			
Ord.	Author		Title			Publisher		Year
1,	K. Astrom, B. Wittemark	Adapti	Adaptive Control (2nd Edition)			Adison Wesly		1995
2,	Goodwin G.C., Sin K.S.	Adapti	ve Filtering P	rediction	and Control.	Prentice-Hall		1984
3,	Clarke D.W., Mohtadi C., Tuffs P.S.	Gener	alized Predic	tive Contr	ol	O.U.E.L. Report No 1557/84.	. 1555/84 &	1984
4,	William S. Levine	The C	ontrol Handb	ook		IEEE Press		1996
5,	K. Astrom, B. Wittemark	Comp	uter-Controlle	d System	IS	Prentice hall		1997
6,	Profesor	Štamp vežbe	Štampani materijal koji pokriva pojedina izlaganja i vežbe					2005
7,	Profesor	Skripta za laboratorijske vežbe					2005	



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Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

Course:								
Course id:	AU514		Totally Integra	ted Automatic Control Sys	stems			
Number of ECTS:	6							
Teacher:	Teacher: Čongradac D. Velimir							
Course status:		Elective						
Number of active teac	hing classe	s (weekly)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	3 0 3 0 0							
Precondition courses			None					

1. Educational goal:

Students gain theoretical and practical knowledge about automation of office-residential buildings.

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving concrete engineering problems and practical applications in building automation field.

3. Course content/structure:

The history of use of modern automation solutions in the automation of office and residential buildings. Standards in the field of office / residential buildings automation. DCS architecture in building automation systems. Communication protocols (LON, KNX, X10). Control of HVAC systems in office and residential buildings. Lighting in office and residential buildings. The application of modern automation methods in order to increase the energy efficiency of office/residential buildings.

4. Teaching methods:

Lectures, computer and laboratory practice, consultations. The theoretical part of the course is evaluated through oral exam where students answer problem questions. The oral part of the exam is worth up to 30 points and based on a set of exam questions. The practical part of the exam is taken in computer laboratory (colloquium and exam) and through homework assignments. The final grade is formed on the bases of the quality of homework assignments and computer assignments and the oral part of the exam.

	Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points	
Project			Yes	30.00	Coloquium exam		No	40.00	
					Oral part of the exam		Yes	30.00	
					Practical part of the exam	n - tasks	Yes	40.00	
	Literature								
Ord.	Author			Title	;	Publishe	er	Year	
1,	Profesor	Štamp vežbe	Štampani materijal koji pokriva pojedina izlaganja i vežbe					2005	
2, G. J. Levermore Building energy management systems Department of build engineering UMIST					ing	2008			
3,	Roger W. Haines Douglas C. Hittle	Systen	Systems for heating, ventilating and air conditioning Springer					2008	

ASTRAS STUDIO

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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:									
Course id:	E2515		Intelli	gent Control Systems					
Number of ECTS:	6								
Teachers:	achers: Kulić J. Filip, Petrovački P. Dušan								
Course status:		Elective							
Number of active tead	hing classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	() 3		0	0				
Precondition courses			None						

1. Educational goal:

Students learn about systems of automatic control based on computer intelligence methods.

2. Educational outcomes (acquired knowledge):

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

3. Course content/structure:

Application of artificial neural networks in the identification, diagnosis, prediction and control. Fuzzy systems in systems engineering. Neuro fuzzy systems: combining fuzzy logic and neural networks in control. Genetic algorithms in systems engineering. Design of classic and neuro fuzzy regulators using genetic algorithms. Support vector machines and their application in identification and control of systems.

4. Teaching methods:

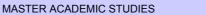
Lectures. Computational and computer practice. Consultations. The exam is written and oral. Passing the written part is the prerequisite for the oral part. The final grade is formed on the bases of achievements at the colloquium, homework assignments and the quality of the written and oral part of the exam.

Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations Mandatory Points Final exam Mandatory Points									
Project			Yes	50.00	Oral part of the exam		Yes	50.00		
Literature										
Ord.	Author			Title	;	Publishe	r	Year		
1,	V.Kecman	Learni	ng and Soft (Computing)	MIT Press		2001		
2,	S.M.Kartalopoulos	Under	standing Neu	ral Netwo	rks and Fuzzy Logic	IEEE Press		1996		
3,	3, J.S.R.Jang; C.T.Sun; Neuro-Fuzzy and Soft Computing Prentice Hall						1997			
4,	R.L.Haupt; S.E.Haupt	Praction	Practical Genetic Algorithms Wile			Wiley-Interscience		2004		



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Computing and Control Engineering



Table 5.2 Course specification

Г56	l elevision and	I Image Processing Softwa	are 2			
Teacher: Teslić Đ. Nikola						
Elective						
ng classes (weekly)					
Practical classes:	tical classes: Other teaching types: Study research work: Other classes:					
3 0 3 0 0						
1	Teslić Đ. Elective g classes (weekly	Teslić Đ. Nikola Elective g classes (weekly)	Teslić Đ. Nikola Elective g classes (weekly)			

Precondition courses

1. Educational goal:

Students will learn about the design, realization and testing software for digital TV sets.

2. Educational outcomes (acquired knowledge):

Students have learned about the design, realization and testing software for digital TV sets.

3. Course content/structure:

Realization of algorithms for image compression using software and physical architecture (MPEG 1/2/7/21, H.261/3/4, WMV). Realization of motion vector prediction software and programmable sequential networks. Software for presenting and processing video objects. Digital television – DTV software (TV picture compression standards, digital Television standards – DVB, transmission structure, compression standards for video signal, audio signal, handling errors, elements of physical architecture of DVB receiver, dedicated processors for digital television, DVB software.

4. Teaching methods:

Lectures, Tutorials, Computer practice,. Consultations

The course material is presented in two blocks. In the first block the students attend theoretical classes in the morning sessions. In the afternoon they attend practical classes. In the second block students develops the final exam paper.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations Mandatory Points Final exam Mandatory Points									
Homework	Yes	5.00	Coloquium exam	No	20.00				
Homework	Yes	5.00	00 Coloquium exam No		20.00				
Homework	Yes	5.00	Theoretical part of the exam	Yes	30.00				
Homework Yes 5.00 Practical part of the exam - tasks Yes 4									
Test Yes 10.00									

Literature								
Ord.	Author	Title	Publisher	Year				
1,	V. Kovačević, N. Teslić, V. Mihić	Programska podrška u televiziji i obradi slike II, Skripte		2005				



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Computing and Control Engineering



MASTER ACADEMIC STUDIES
Table 5.2 Course specification

Course:						
Course id:	AU505 Neural Prostheses					
Number of ECTS:	6					
Teachers: Jorgovanović Đ. Nikola, Bojanić M. Dubravk				oravka, Popović B. Dejan		
Course status:		Elective				
Number of active tea	ching classe	es (weekly	')			
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:	
3	()	3	0	0	

Precondition courses

1. Educational goal:

Students gain knowledge about neural prostheses.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future work and education.

3. Course content/structure:

Basic principles of neural prostheses. Control of neural prostheses with and without feedback. Artificial sensors in controlling neural prostheses. Biological sensors, signal recording and its processing. Algorithms of neural prostheses operation, Designing neural prostheses. Standards and norms relevant for neural prostheses design.

4. Teaching methods:

Lectures, laboratory and computer practice, project assignments. Consultations.

Knowledge evaluation (maximum 100 points)								
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points			
Homework	Yes	5.00	Oral part of the exam	Yes	30.00			
Homework	Yes	5.00		<u> </u>				
Project	Yes	30.00						
Test	Yes	10.00						
Test	Yes	10.00						
Test	Yes	10.00						

	Literature								
Ord.	Author	Title	Publisher	Year					
1,	Dejan B. Popović, Thomas Sinkjer	Control of Movement for the Physically Disabled	Center for SMI Aalborg University	2003					



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Computing and Control Engineering



MASTER ACADEMIC STUDIES

Tab	le	5.2	Course	specif	ication
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Course:											
Course id:	AU507		Principles of Biomedical Engineering								
Number of ECTS:	6										
Teachers: Jorgovanović Đ. Nikola, Bojanić M. Dubravka											
Course status:		Elective									
Number of active tead	hing classe	es (weekly)								
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:						
3	0		3	0	0						
Precondition courses			None								

1. Educational goal:

Students gain knowledge about anatomy and physiology.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future work and education.

3. Course content/structure:

Selected chapters in anatomy and physiology adapted to students of engineering. Basics of the biomedical instrumentation.

4. Teaching methods:

Lectures, laboratory practice, project assignments. Consultations.

	Knowledge evaluation (maximum 100 points)							
	Pre-examination obligations	1	Mandatory	Points	Final ex	Final exam		Points
Laborat	ory exercise defence		Yes	10.00	Coloquium exam		No	20.00
Test	Test			10.00	Coloquium exam	Coloquium exam		20.00
Test	Test			10.00	Oral part of the exam	Oral part of the exam		30.00
		Practical part of the exam	n - tasks	Yes	40.00			
				Liter	ature			
Ord.	Author		Title			Publishe	er	Year
1,	A.C. Guyton, J.E. Hall	Medic	Medicinska fiziologija			Savremena adminis Beograd	stracija,	1999

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MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:										
Course id:	AU508	Information Flow in Medicine								
Number of ECTS:	6									
Teacher:		Bojanić N	ojanić M. Dubravka							
Course status:		Elective								
Number of active teac	hing classe	es (weekly	')							
Lectures:	Practical classes:		Other teaching types:	Study research work:	Other classes:					
3	0		3	0	0					
Precondition courses			None							

1. Educational goal:

Students gain knowledge about information systems in medical sector.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future work and education.

3. Course content/structure:

Interconnecting systems for connecting with medical instrumentation. Standardization of interface and data format. Electronic patient record, formats, content, Protection of patient's privacy, Encrypting methods. Protection against error in data. Forms of presenting medical data. Automation and control of information flow at the level of clinic and region.

4. Teaching methods:

Lectures, computer practice, project assignments. Consultations.

The colloquia are taken in written form and the exam is both written and oral, with the written part being prerequisite for the oral.

The final grade is formed on the bases of achievements at the colloquia, the quality of homework assignments and the written and oral part of the exam.

Knowledge evaluation (maximum 100 points)							
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points		
Homework	Yes	5.00	Oral part of the exam	Yes	30.00		
Homework	Yes	5.00					
Project	Yes	30.00					
Test	Yes	10.00					
Test	Yes	10.00					
Test	Yes	10.00					
Literature							

Ord.	Author	Title	Publisher	Year
1,	Shortliffe, E.H., Perreault, L.E., Wiederhold, G., and Fagan, L.M. (eds.)	Medical Informatics: Computer Applications in Health Care and Biomedicine, 2nd Edition.	New York: Springer-Verlag	2001

Strana 42 Datum: 18.12.2012

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MASTER ACADEMIC STUDIES

Computing and Control Engineering



Table 5.2 Course specification

Course:										
Course id:	AU509		Nonlinear Control Systems							
Number of ECTS:	6									
Teachers:		Petrovač	Petrovački Lj. Nebojša, Petrovački P. Dušan							
Course status:		Elective								
Number of active tea	Number of active teaching classes (weekly)									
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

Students gain theoretical and practical knowledge about nonlinear control systems.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in solving practical engineering problems.

3. Course content/structure:

Introduction to nonlinear control systems. Nonlinearity characteristic of real systems. Phase diagram. Description functions. Nonlinear system stability. Linearization (trajectory linearization, feedback linearization) Design of nonlinear control systems (Lyapunov function, feedback linearization, Backstepping, Dynamic Inversion... Dynamic programming and optimal control).

4. Teaching methods:

Lectures, numerical calculation practice, computer practice, laboratory practice. Consultations.

The exam is written and oral. The course material can be divided into two colloquia. The oral part of the exam is based on a set of exam questions. Colloquia and tests are valid for two exam periods. Colloquia and exam are written, with the written part being prerequisite for the oral. The final grade is formed on the bases of achievements at the colloquia, homework assignments and the written and oral part of the exam.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligations			Mandatory	Points	Final ex	Final exam		Points		
Project			Yes	30.00	Coloquium exam		No	40.00		
	Oral part of the exam						Yes	30.00		
	Prac					n - tasks	Yes	40.00		
	Literature									
Ord.	Author		Title		Publishe	er	Year			
1	William S. Levine	The Co	ntrol Handh	ook		IEEE Dress		1006		

Ord.	Author	Title	Publisher	Year
1,	William S. Levine	The Control Handbook	IEEE Press	1996
2,	K. Astrom, B. Wittemark	Computer-Controlled Systems	Prentice hall	1997
3,	Profesor	Štampani materijal koji pokriva pojedina izlaganja i vežbe		2005
4,	Profesor	Skripta za labaratorijske vežbe		2005



Course id:

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Computing and Control Engineering

Systems

MASTER ACADEMIC STUDIES

Table 5.2 Course specification

Course:	Software Algorithms in Supervisory Control and Data Acquisition

Number of ECTS: 6

Teachers: Erdeljan M. Aleksandar, Vukmirović M. Srđan, Čapko Lj. Darko

Course status: Elective

E2535

Number of active teaching classes (weekly)

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

Precondition courses None

1. Educational goal:

The aim of the course is the detailed knowledge of the algorithms for solving optimization problems of SCADA systems.

2. Educational outcomes (acquired knowledge):

The outcome is competence to solve some optimization problems in SCADA systems.

3. Course content/structure:

Supervisory Control and Data Acquisition Systems (SCADA): definition, classification, basic characteristics, algorithmic problems and challenges; Graph Theory: Graph definition, basic concepts, types, search, system modeling using graphs; Basics algorithms based on graphs: a traveling salesman, graph partitioning, multilevel algorithms, graph coloring, dynamic algorithms (features, criteria), critical path. Examples of problem solving using algorithms based on graphs: the problems of transport and optimization of transport systems (airport, traffic lights, toll booths on the highway, courier, taxi), telephone exchange, computer networks, CPU load balancing in distributed SCADA systems, optimal workflow in NUS.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

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

ı		Literature									
	Ord.	Author	Title	Publisher	Year						
	1,	T. H. Cormen, C. E. Leiserson, R. L. Rivest, C. Stein	Introduction to Algorithms, Third Edition	MIT Press	2010						



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Table 5.2 Course specification

Course:								
Course id:	AU503		Methods of Analysing Electrophysiological Signals					
Number of ECTS:	6							
Teachers:		Bojanić M. Dubravka, Popović B. Mirjana						
Course status:	Course status: Elective							
Number of active tead	ching classe	es (weekly	′)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	()	3	0	0			
Precondition courses	•		None					

1. Educational goal:

Students should gain knowledge about analysis and processing of electrophysiological signals.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future work and education.

MASTER ACADEMIC STUDIES

3. Course content/structure:

Classification of signals. Biomedical signal acquisition and processing. The origin of the biomedical signals. Time domain analysis and processing. Random processes, elements of probability theory, correlation, crosscorrelation, autocorrelation. Frequency domain analysis and processing, time - frequency analysis. Fourier transform, discrete Fourier transform, FFT, short time Fourier transform, wavelet transform. Spectral analysis. Compression and automatic recognition. ECG signal processing (filtering, QRS complex detection, high resolution ECG, heart rate variability signal analysis...). ECG waveform generator and simulator. EEG signal analysis, separation of EEG frequency components, differential brain activity of the left and right hemispheres, nap and awake state recognition, methods for evoked potential analysis.

4. Teaching methods:

Lectures, computer practice, project assignments. Consultations.

The colloquia are taken in written form and the exam is both written and oral, with the written part being prerequisite for the oral.

The final grade is formed on the bases of achievements at the colloquia, the quality of homework assignments and the written and oral part of the exam.

	Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations	8	Mandatory	Points	Final e	xam	Mandatory	Points	
Compu	ter excersise defence		Yes	30.00	Coloquium exam		No	20.00	
				Coloquium exam		No	20.00		
					Theoretical part of the ex	kam	Yes	30.00	
	Practical part of the exam - tasks							40.00	
	Literature								
Ord.	Author			Title	9	Publisher		Year	
1,	A. Cohen		Biomedical signal processing: Time and Frequency Domain Analysis Boca Raton, Fla,					1986	
2,	A. Cohen	Biomedical signal processing: Compression and Automatic Recognition Boca Raton, Fla, CF				RC Press	1986		
3,	A.C. Guyton, J.E. Hall	Medici	Medicinska fiziologija Savremena adminis Beograd				tracija,	1999	

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Computing and Control Engineering



Table 5.2 Course specification

Course:									
Course id:	GIAU01		Geosensor networks						
Number of ECTS:	6								
Teachers:		Petrovač	Petrovački Lj. Nebojša, Petrovački P. Dušan						
Course status:		Elective							
Number of active teac	hing classe	s (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	C)	3	0	0				
Precondition courses			None						

1. Educational goal:

Students learn about theoretical and practical facts about geosensor networks

2. Educational outcomes (acquired knowledge):

This knowlege used for solution of practical engineering problems

3. Course content/structure:

Geosensor networks types. Characteristics of geosensor networks (wireless communication protocols, network topology, data acquisition and processing). Types of geosensors and characteristics. Distributed data acquisition and processing, centralized and decentralized algorithms. Applications of geosensor networks, offline and online work, data protection.

4. Teaching methods:

Llectures, calculation, laboratory and computer-laboratory practice. Consultation. Tests and exams are oral and written. Test and the written part of the examination shall be in written form part of the final exam is oral. Exam score is based on the success of the tests, and the final written exam.

Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations	Mandatory	Points	Final ex	Final exam Mandatory		Points	
Homew	ork		Yes	30.00	Theoretical part of the ex	am	Yes	40.00
Project task			Yes	30.00			•	
	Literature							
Ord.	Author			Title	:	Publishe	er	Year
1,	Anthony Stefanidis, Silvia Nittel (editors)	"GeoS	"GeoSensor Networks"			CRC Press, USA		2004
2,	2, C. S. Raghavendra, K. M. Sivalingam, T. Znati Wireless sensor networks				Kluwer academic pu	ublishers	2004	

1,	Anthony Stefanidis, Silvia Nittel (editors)	"GeoSensor Networks"	CRC Press, USA	2004
2,	C. S. Raghavendra, K. M. Sivalingam, T. Znati	Wireless sensor networks	Kluwer academic publishers	2004
3,	Lj. Gavrilovska, S. Krco, V. Milutinović, I. Stojmenović, R. Trobec	Application and Multidisciplinary Aspects of Wireless Sensor Networks	Springer-Verlag, London	2011
4,	I. Stojmenović (editor)	Handbook of Sensor Networks - Algorithms and Arhitectures	Willey and Sons, New Jersey	2005
5,	D. Wagner, R. Wattenhofer (editors)	Algorithms for Sensor and Ad Hoc Networks	Springer-Verlag, Berlin	2007
6,	C. Cordeiro, D. Agrawal	Ad Hoc and Sensor Networks	World Scientific Publishing, Singapore	2006
		<u> </u>		



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Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Table 5.2 Course specification

Course:									
Course id:	GIAU02		Position Based Services						
Number of ECTS:	6								
Teachers:		Bulatović	Bulatović S. Vladimir, Govedarica J. Miro, Ninkov Đ. Toša						
Course status:		Elective							
Number of active tead	hing classe	es (weekly	′)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3 0		0				
Precondition courses			None						

1. Educational goal:

The acquisition of basic and applied knowledge in the field of geodesy, geomatics, and geoinformatics. The acquisition of basic and applied knowledge in the field of position based services in geodesy and geoinformatics.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used for professional purposes, students are able to formulate and solve engineering problems.

3. Course content/structure:

An introduction to position services.

The classification of services.

The architecture of position based services.

Technological fundamentals.

The position based query processing.

Privacy. Object movement monitoring.

Position-sensitive sensor networks.

Position and data mining.

Mobile peer-to-peer systems.

The content of practice classes: the practical application of concepts discussed in lectures.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: The examination consists of a colloquium in written form, guided and independent completion of obligatory tasks, and the final part of the examination which is in oral form.

Knowledge evaluation (maximum 100 points)								
Pre-examination obligations			Mandatory	Points	Final ex	kam	Mandatory	Points
Computer excersise defence			Yes	10.00	Coloquium exam		No	20.00
Compu	ter excersise defence		Yes	10.00	Coloquium exam		No	20.00
Compu	ter excersise defence		Yes	10.00	Oral part of the exam		Yes	70.00
	Literature							
Ord. Author Title Pub			Publishe	er	Year			

Ord.	Author	Title	Publisher	Year
1,	Keith R. McCloy	Resource Managament Information Systems Remote Sensing, GIS and Modelling	Taylor & Francis	2006
2,	Shashi Shekhar, Sanjay Chawla	Spatial Databases: A Tour	Prentice Hall	2003
3,	George Taylor, Geoff Blewitt	Inteligent Positioning – GIS – GPS Unification	Wiley	2006
4,	Mirza Ponjavić	Osnovi geoinformacija	Univerzitet u Sarajevu, Građevinski fakultet	2011
5,	Galić Z.	Geoprostorne baze podataka	Golden Marketing - Tehnička knjiga	2006



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

Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

Course:								
Course id:	GIAU05		Geoportals and Geoservices					
Number of ECTS:	6							
Teacher:		Govedarica J. Miro						
Course status:		Elective						
Number of active tea	ching classe	es (weekly)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	(0	3 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 application of IT, Portals and Geoportals in Geoinformatics and Geodesy.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lecture content: Mechanisms for data exchange in space. XML, GML, LandXML. Scheme of geometry, scheme of topology, scheme of topography. Exchange documents. Standards for metadata – ISO 19115 - SDI – spatial infrastructure. Geoportals. Architecture of geoportals. Practice content: Practical application of presented concepts from lectures. Implementation of geoportal. Customization of geoportal and implementation of custom client web applications.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of obligatory tasks; seminar paper; written partial exam; final examination – oral form.

Knowledge evaluation (maximum 100 points)							
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points		
Computer excersise defence	Yes	10.00	Coloquium exam	No	20.00		
Computer excersise defence	Yes	10.00	Oral part of the exam	Yes	50.00		
Computer excersise defence	Yes	10.00					
Term paper	Yes	20.00					

	Literature							
Ord.	Author	Title	Publisher	Year				
1,	C. Jones	Geographical Information Systems and Computer Cartography	Pearson Education Inc	1997				
2,	R. Lake, D.Burggraf, M Trninic, L Rae	Geography Mark-up Language GML	John Wiley&Sons, Ltd	2004				
3,	Mirza Ponjavić	Osnovi geoinformacija	Univerzitet u Sarajevu, Građevinski fakultet	2011				
4,	Galić Z.	Geoprostorne baze podataka	Golden Marketing - Tehnička knjiga	2006				



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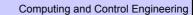




Table 5.2 Course specification

Course:		Remote Sensing and Computer Image Processing					
Course id:	GIAU03						
Number of ECTS:	6						
Teachers:		Borisov A	A. Mirko, Govedarica J. Miro				
Course status: Elective							
Number of active teac	hing classe	es (weekly)				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
3	()	3	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 remote sensing and computer image processing.

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Introduction to remote sensing. Technological bases. Sensor platforms. Interpretation of sensor records. Image pre-processing. Image transformations. Filtering. Interpretation methods in remote researching. Subjective interpretation, properties and limitations. Interactive interpretation with partially automated functions. Image modification. Highlighting, ranking and reducing the amount of marks. Classification. Segmentation. Algorithms for classification and segmentation. Automated classification. Supervised classification. Registration and geocoding. Image merging. Standard patterns and algorithms. Quality control and accuracy assessment. Programme tools for remote detection.

4. Teaching methods:

Teaching forms: lectures, computer practice, consultations, individual elaboration of obligatory tasks. Knowledge evaluation: guided and individual elaboration of 2 obligatory tasks and 4 tests and final examination – oral form.

Knowledge evaluation (maximum 100 points)								
Pre-examination obligations	Final exam	Mandatory	Points					
Computer excersise defence	Yes	15.00	Oral part of the exam	Yes	30.00			
Computer excersise defence	Yes	15.00						
Test	Yes	10.00						
Test	Yes	10.00						
Test	Yes	10.00						
Test	Yes	10.00						

	Literature									
Ord.	Author	Title	Publisher	Year						
1,	P. Mather	Computer Processing of Remotly-Sensed Images: An Introduction	John Wiley&Sons, Ltd	2004						
2,	Keith R. McCloy	Resource Management Information System:Remote Sensing, GIS and Modelling	Taylor&Francis	2006						
3,	M. Dražić	Fotogrametrija 2	Građevinska knjiga, Beograd	1965						
4,	Dušan Joksić	Fotogrametrija I	Naučna knjiga, Beograd	1983						
5,	V.M. Serdjukov	Fotogrammetrija V promišlennom i graždanskom stroiteljstve	Nedra, Moskva	1977						
6,	grupa autora	Geodezija i aerofotosjemka	Izdanie moskovskogo ordena lenina instituta, Moskva	1984						
7,	John R. Jensen	Introductory Digital Image Processing - A Remote Sensing Perspective	Pearson Prentice Hall	2005						



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

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knjiga

Univerzitet u Sarajevu,

Građevinski fakultet Golden Marketing - Tehnička



2011

2011

2006

Table 5.2 Course specification

Course:								
Course id:	GIAU04		Geospatial data visualization					
Number of ECTS:	6							
Teachers:		Galić P. 2	Galić P. Zdravko, Govedarica J. Miro, Petrovački P. Dušan					
Course status:		Elective						
Number of active teac	hing classe	es (weekly	')					
Lectures:	Practical	l classes: Other teaching types: Study research work: Other cla						
3	()	3 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 Virtual GIS atlases. 2D and 3D visualization of gespatial data

2. Educational outcomes (acquired knowledge):

Acquired knowledge is used in professional courses, as well as in the recognition and in solving the engineering problems.

3. Course content/structure:

Lectures: Basics of geospatial data visualization; Data models and data formats; Standardization; KML, VRML, GEOVRML, CITYGML; Acquisition of geospatial data, street mapper, pictometry, satellite platforms - technology basis; 3d acquisition systems in geodesy: Virtual models and atlases; Visualization in geodesy; 3d cadastral systems; Rendering algorithms; Animation; SLD; Dynamic web maps - results of GIS analyses; 3d web presentation. Practice content: Practical application of presented concepts from lectures. Virtual atlases; Dynamic web maps; Spatial queries and analyses: 3D modeling; Animation

4. Teaching methods:

3

4.

5,

Michael Miller

Mirza Ponjavić

Galić Z.

Teaching methods include lectures, computer practice, consultations, independent and guided work on obligatory assignments. Prerequisites: obligatory tasks, during the teaching process. Examination - knowledge evaluation: final examination in oral form.

	Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations Mandatory Points Final exam						Mandatory	Points	
Compu	ter excersise defence		Yes	30.00	Coloquium exam		No	20.00	
Term pa	Term paper			20.00	Oral part of the exam	•		50.00	
				Liter	ature				
Ord.	Author			Title	;	Publishe	er	Year	
1,	Zhong-Ren Peng, Ming- Hsiang Tsou		Internet GIS: Distributed Geographic Information Services for the Internet and Wireless Network			John Wiley & Sons		2003	
2,					ith ArcGIS	Esri Petroleum Use Conference	r Grooup	2011	

Using Google Maps™ and Google Earth™

Osnovi geoinformacija

Geoprostorne baze podataka

STAS STUDIO

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



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Table 5.2 Course specification

grupa autora

Course:										
Course	id:	E25SP		Professional Practice – Project						
Number	of ECTS:	4								
Teache	rs:									
Course	status:		Mandatory							
Number	of active tead	hing classe	s (weekly)							
L	ectures:	Practical	classes:	Other teaching	ng types:	Study rese	arch work:	Other cla	isses:	
	0	0		0		0		3		
Precond	dition courses			None						
1. Educ	ational goal:									
Extendi	ng practical kn	owledge in	the area of	computing and	control er	ngineering.				
2. Educ	ational outcom	nes (acquire	ed knowledg	ıe):						
The acc	uired knowled	ge can be ι	utilized in so	olving practical	engineerir	ng problems.				
3. Cours	se content/stru	icture:								
Solving	concrete engi	neering pro	blems in pra	actice.						
4. Teacl	hing methods:									
Teachin	g is carried ou	it in econon	nic sector or	scientific and e	education	al institutions in the form	of independent work.			
				Knowledge e	valuation	(maximum 100 points)				
	Pre-examina	ition obligat	ions	Mandatory	Points	Final e	·	Mandatory	Points	
Homew	Homework Yes 70.00 Theoretical part of the exam Yes 30.0						30.00			
					Liter	ature				
Ord.	Д	uthor		Title Publisher Year						

Odgovarajući materijal neophodan za rešavanje

konkretnih problema.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Table 5.2 Course specification

Course:		Study-Research Work on the Master Thesis Theoretical					
Course id:	E2SIR		,	Framework			
Number of ECTS:	10						
Teachers:							
Course status: Ma			ry				
Number of active teac	hing classe	s (weekly)				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
0	0	0 0 13					
Precondition courses			None				

1. Educational goal:

The application of basic, theoretical, methodological, scientific-professional and professional-applicative knowledge and methods in solving specific problems within the chosen field. Within this part of the work on the master thesis, the student studies the problem, its structure and complexity draws conclusions on possible solutions based on the carried out analysis. By studying the literature the student becomes familiar with the methods used in solving similar problems and the engineering practice of these solutions. The goal of the student's activity whithin this part of research is to acquire the sufficient experience by solving complex problems and tasks and the ability to apply the acquired knowledge in the engineering practice.

2. Educational outcomes (acquired knowledge):

Students are able to independently apply the previously acquired knowledge in the fields that they had previously studied, and understand the structure of the chosen problem. Students conduct a systematic analysis of the problem and draw conclusion about the possible solutions. By the independent use of professional literature, students widen their knowledge in the chosen field and study different methods and scientific papers related to the topic. In that way, students develop the ability to do analysis and identify problems within the given topic. The practical application of the acquired knowledge in different fields enables the student to develop the ability to understand the position and role of an engineer in the chosen field, and the necessity of cooperation with other professionals and team work.

3. Course content/structure:

The course structure is formed individually according to the needs of a specific master thesis, its complexity and structure. The student studies professional literature, graduation and master thesis of students who have previously done work on a similar topic, does analysis in order to find solutions to a specific problem defined by the thesis. A part of the course is done through individual study-research work. The study involves the active study of the primary literature and discoveries on the topic, the organization and realization of experiments, numerical simulation, statistical processing of data, writing and/or presenting a scientific essay at a conference in the specific scientific field of the master thesis.

4. Teaching methods:

The mentor of the master thesis defines and writes the task for the thesis and hands it to the student. The student is oblidged to write the thesis within the given topic which is defined by the master thesis task by using professional literature suggested by the mentor. While working on the thesis, the mentor can give additional instructions to the student, direct them to specific literature and advise him in order to enhance the quality of the master thesis. Within the study-research work, the student consults with the mentor, and, if necessary, with other professors teaching the subjects related to the master thesis topic. Within the given topic, the student conducts measurements, research, counting, surveys, statistical processing of data, if defined by the task of the master thesis.

	Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations Mandatory Points Final exam Mandatory Points								
Term pa	Term paper No 50.00 Oral part of the exam						No	50.00	
	Literature								
Ord.	Author			Title	:	Publishe	r	Year	
1,	1, grupa autora časopisi sa Kobson liste							sve	
2,	2, grupa autora časopisi i master radovi							???	



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

Study Programme Accreditation

Computing and Control Engineering



MASTER ACADEMIC STUDIES
Table 5.2 Course specification

Course:									
Course id:	E25ZR		Preparation and Defence of Master Thesis						
Number of ECTS:	10								
Teachers:									
Course status:		Mandato	ry						
Number of active teac	hing classe	s (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
0	C)	0 0 8						
Precondition courses			None						

1. Educational goal:

The objective of the preparation and defence of the master thesis is for the student to show independent and creative approach in the application of the practical and theoretical knowledge of the given field in practice in the field of computing and control engineering. Student will be able to follow the literature and do research work.

2. Educational outcomes (acquired knowledge):

By completing and defending a master thesis the students who have graduated from this programme should be competent to solve real life practical problems as well as to continue education if they choose to do so.

A student with a master's degree acquires a thorough knowledge and understanding of all the disciplines in the chosen module as well as the ability to solve concrete problems using scientific methods and procedures. The students are able to suitably write and present the results of their work. The students completing this level of studies have the competence for studying and applying the new developments in the professional field as well as cooperation with local social and international environment.

3. Course content/structure:

Automatic control. Signals, systems and control. Applied control science. Informatics. Computer engineering. Computer communications.

4. Teaching methods:

Supervisor for the preparation and defence of the master thesis chooses one of the suggested modules (the same module as for the theoretical basis) in which a student will do a master thesis and defines a topic with the tasks to develop a master thesis. A candidate works independently in consultation with the supervisor on the problem given. After the completion of the paper and the supervisors approval the candidate defences the thesis before a committee of at least three members of which at least one must be from a different faculty.

Knowledge evaluation (maximum 100 points)							
Pre-examination obligations Mandatory Points Final exam Mandatory Points							
	Master thesis defence Yes						
	Writing the master thesis Yes 50.00						



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Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Table 5.2 Course specification

Course:									
Course id:	E2523		Social Networks						
Number of ECTS:	6								
Teachers:		Gostojić	Gostojić L. Stevan, Nenadić M. Goran						
Course status:		Elective							
Number of active tead	ching classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3 0 0						
Precondition courses			None						

1. Educational goal:

Understanding social concepts and technological infrastructure of social networks and social computing; understanding development trends of social computing; acquisition of knowledge and skills needed for development of social networking software; introduction to social network analysis and data mining; acquisition of basic knowledge about ethical and legal aspects of usage and development of social networking software and social network analysis and data mining.

2. Educational outcomes (acquired knowledge):

After successfully completing the course student: (1) understands social concepts and technological infrastructure of social networks and social computing, (2) understands development trends of social computing, (3) is qualified to develop social networking software, (4) is qualified in social network analysis and data mining, (5) is aware of ethical and legal aspects of usage and development of social networking software and social network analysis and data mining.

3. Course content/structure:

(1) overview of social networks and social computing, (2) Web 2.0, (3) identity management, (4) social network representation and analysis (graph theory and social networks, strong and weak ties, degree centrality, network segmentation, diffusion of information), (5) social computing standards, (6) social network data mining (classification and recommendation systems, sentiment analysis, opinion mining), (7) privacy and risks in social computing and (8) the future of social computing.

4. Teaching methods:

Teaching methods include: lectures, computer practice classes and consultations. During the lectures the content of the course is presented using the necessary didactic tools while student active participation is encouraged. The practical aspect of the course is covered at computer practice classes through assignments which students do independently or with the help of teaching assistants. The course lecturer and teaching assistants have consultations with the students. During the consultations the students are given additional explanations of the material covered at the lecture and practice classes.

	Knowledge evaluation (maximum 100 points)											
	Pre-examination obligations	Mandatory Points Final ex			kam	Mandatory	Points					
Project			No	50.00	Oral part of the exam		Yes	50.00				
	Literature											
Ord.	Author		Title			Publisher		Year				
1,	Shashwat Srivastava and Apeksha Singh		Facebook Application Development with Graph API Cookbook			Packt Publishing		2011				
2,	Matthew A. Russell				zing Data from and Other Social Media	O`Reilly		2011				
3,	James Surowiecki	The W	isdom of Cro	wds		Oxford University P	ress	2008				
4,	David Easley and Jon Kleinberg		Networks, Crowds, and Markets: Reasoning About a Highly Connected World			Cambridge Universi	ity Press	2010				
5,	Rudi Supek	Zanat	sociologa: St	rukturalna	a analiza	Školska knjiga		1983				



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Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:										
Course id:	E2524		Text Mining							
Number of ECTS:	6									
Teachers:		Kovačevi	ovačević D. Aleksandar, Nenadić M. Goran							
Course status:		Elective								
Number of active teac	hing classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

The aims of the course are: provide students with the knowledge of important concepts and techniques of text mining and information extraction; make students capable of applying text mining (and information extraction) methods, tools and techniques.

2. Educational outcomes (acquired knowledge):

Students are acquainted with important concepts and techniques of text mining and information extraction and are capable of applying text mining (and information extraction) methods, tools and techniques.

3. Course content/structure:

Basic concepts and overview of the field of computational text analysis and information extraction. Pre-processing of the text. Lexical, syntactic and semantic analysis. The use of machine learning methods in the analysis of text: classification and clustering of textual documents. Probabilistic models for information extraction:Maximum Entropy Models,Hidden Markov Models, Conditional Random Fields. Rule-based information extraction. Automatic extraction of terms. Automatic extraction and semantic annotation of named entities in text. Automatic text summarisation. Systems for automatic answering questions. Visualization of text data. Information extraction from business reports. Automatic recognition of emotions and attitudes from text (opinion and sentiment mining). Information extraction in biology and medicine.

4. Teaching methods:

Lectures, laboratory exercises, consultations. The exam is oral. Exam score is based on the success of the laboratory exercises and the oral exam.

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	cam	Mandatory	Points			
Project	Project			50.00	Oral part of the exam		Yes	50.00			
	Literature										
Ord.	Author		Title			Publisher		Year			
1,	Ronen Feldman, James Sanger		The Text Mining Handbook: Advanced Approaches in Analyzing Unstructured Data			Cambridge Universi	ty Press	2006			
2,	Sholom M. Weiss, Nitin Indurkhya, Tong Zhang, Fred Damerau		Text Mining: Predictive Methods for Analyzing Unstructured Information			Springer		2004			
3,	Sophia Ananiadou, John Mcnaught	Text M	ining for Biol	ogy And E	Biomedicine	Artech House		2005			



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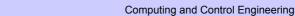




Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:									
Course id:	E2525		Contemporary educational technologies and standards						
Number of ECTS:	6								
Teachers: Ivanović V. Dragan, Konjović D. Zora									
Course status:		Elective							
Number of active teac	hing classe	es (weekly	′)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	(3		0	0				
Precondition courses			None						

1. Educational goal:

Students are being introduced to the up-to-date educational technologies and standards and gain skills required for applying these technologies in educational settings.

2. Educational outcomes (acquired knowledge):

Upon successful completion of the course, a student understands the benefits of computer-supported education. He/she is capable to select and apply appropriate educational technologies and standards, while using, managing, customizing or developing e-learning software tools.

3. Course content/structure:

Up-to-date educational technologies: The history of educational technologies and the concept computer-supported learning; Up-to-date educational technologies and software tools; Modern approaches to education. ICT for contemporary education: Hardware, Software. Learning Management Systems. Intelligent Tutoring Systems. E-learning standards: Content representation, learning process. Open education. Pedagogical implications of contemporary educational technologies. E-learning strategies.

4. Teaching methods:

Classes, computer exercises, consultations. Exam is oral. Final grade is formed based on computer exercise grade and oral exam grade.

			Knowledge e	valuation	(maximum 100 points)			
	Pre-examination obligations		Mandatory	Points	Final ex	Mandatory	Points	
Project			Yes	50.00	Oral part of the exam		Yes	50.00
				Liter	ature			
Ord.	Author					Publishe	r	Year
1,	William Horton, Katherine Horton	guide	E-learning Tools and Technologies: A consumers guide for trainers, teachers, educators, and instructional designers			Wiley		2003
2,	France Belanger, Dianne H. Jordan		ation and Implologies, Tools		on of Distance Learning: hniques	IGI Publishing		2000
3,	Marc Jeffrey Rosenberg		E-Learning: Strategies for Delivering Knowledge in the Digital Age			McGraw-Hill		2001
4,	Beverly Park Woolf		Building Intelligent Interactive Tutors: Student- centered strategies for revolutionizing e-learning			Morgan Kaufmann		2008
5,	Timothy K. Shih, Jason C. Hung		Future Directions in Distance Learning and Communication Technologies			IGI Global		2006

MASTER ACADEMIC STUDIES



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

Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

Course:										
Course id:	E2526		Service Oriented Architectures							
Number of ECTS:	6									
Teachers:		Milosavlje	osavljević P. Branko, Milanović N. Nikola							
Course status:		Elective								
Number of active tead	ching classe	es (weekly)							
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
3	()	3	0	0					
Precondition courses			None							

1. Educational goal:

Understanding of concepts and elements of designing and implementation of service oriented architectures in software systems.

2. Educational outcomes (acquired knowledge):

Upon successful completion of the course students will be able to design and implement contemporary service oriented architectures for software systems and SOA-specific methodologies, technologies and standards; analyze business organizations and models them as a set of services; orchestrate existing services for the creation of new services and applications.

3. Course content/structure:

SOA overview: integration of business processes and SOA; deriving services from the organization's mission; associating SOA design with the project management process. The SOA design process: transition from conceptual to executable services; structuring business requirements in a SOA; adapting services to business organization and needs; design patterns and SOA. Discovery and conceptual service design: defining service domains; atomic service determination; creating composite services; identifying needed resources; old information resources and their integration in SOA. Developing logical services: integration with service users; composition styles; principles of effective design; meeting business needs. Converting design to specification: specifying operations; specifying service contracts; specifying messages. Implementing services: parallel development; adapting the infrastructure for SOA; managing long-running business processes; service development. Managing SOA environment: evaluating SOA - Services Integration Maturity Model; functions and the use of Enterprise Service Bus.

4. Teaching methods:

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

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points			
Project			Yes	50.00	Oral part of the exam		Yes	50.00			
	Literature										
Ord.	Author		Title				r	Year			
1,	T. Erl	SOA F	Principles of S	Service De	esign	Prentice-Hall		2007			
2,	A. Rotem-Gal-Oz	SOA F	Patterns	•		Manning		2012			



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Computing and Control Engineering



Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:									
Course id:	E2536		Mobile Application Development						
Number of ECTS:	6								
Teachers:		Gostojić	ostojić L. Stevan, Obradović J. Đorđe						
Course status: Elective									
Number of active tead	ching classe	es (weekly)						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Acquisition of knowledge and skills needed for understanding concepts of mobile computing. Mastering technologies and tools for mobile application development.

2. Educational outcomes (acquired knowledge):

Knowledge of technologies for mobile application development. The student is competent to understand mobile computing concepts and to develop mobile applications.

3. Course content/structure:

Overview of mobile computing. Mobile devices' hardware. Communication protocols for mobile devices. Programming languages and operating systems for mobile devices. Mobile devices' user interface. Multimedia in mobile devices. Graphics. Network services. Location based services. Data bases. Security of mobile devices and systems.

4. Teaching methods:

Lectures; Computer practice classes; Consultations.

	Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final ex	kam	Mandatory	Points			
Project Yes 3					Oral part of the exam		Yes	50.00			
Term p	aper		Yes	20.00							
	Literature										
Ord.	Author			Title	;	Publishe	r	Year			
1,	Raj Kamal	Mobile	Computing			Oxford University Pr	ess	2008			
2,	David Taniar		Mobile Computing: Concepts, Methodologies, Tools, and Applications			Information Science Reference		2009			
3,	David Taniar	Encyc	Encyclopedia of Mobile Computing and Commerce			Information Science	Reference	2007			



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Study Programme Accreditation





Table 5.2 Course specification

Course:			_						
Course id:	E2528		Computer game development						
Number of ECTS:	6								
Teachers:		Ivetić V.	etić V. Dragan, Obradović M. Ratko						
Course status: Elective									
Number of active tead	hing classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
3	()	3	0	0				
Precondition courses			None						

1. Educational goal:

Enabling the student to understand the developmental process for modern computer games and enabling him or her to apply their knowledge in the are of highly interactive computer games.

2. Educational outcomes (acquired knowledge):

Acquired skills and competencies are used for the development of computer games, including both those intended for serious use and those intended for entertainment, and simulations.

3. Course content/structure:

The concept of a video game. The technology and the process of computer game development. Interaction and computer games (development in the instances of player versus the computer and in the instances of multiplayer gameplay). Simulation in computer games. The psychological aspects of computer game development (the concept of gameplay and user satisfaction metrics). The concept of storytelling and aesthetics in computer games. The applicability of computer games (the entertainment game market, serious games and games and education).

4. Teaching methods:

Lectures, computer laboratory exercises, consultations. The contents of the course are divided into two parts, the comprehension of each of which is tested using two tests conducted during lecture time. The exercises are conducted using the XNA library and authoring tool in order to study different aspects of computer game development. Knowledge thus acquired is tested using an independent project which includes the design and implementation of a simple but complete computer game. The work on this project is done in teams. The successful completion of the laboratory exercises is a precondition of the final exam. The final exam consists of a written examination. The final grade is obtained by adding up the results from the exam, the tests and the exercises.

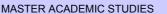
Knowledge evaluation (maximum 100 points)										
Pre-examination obligations	Mandatory	Points	Final exa	am	Mandatory	Points				
Complex exercises	Yes	50.00	Written part of the exam -	tasks and theory	Yes	30.00				
Test	Yes	10.00								
Test	Yes	10.00								
Literature										

		Literature		
Ord.	Author	Publisher	Year	
1,	Dragan Ivetić	Proces razvoja računarskih igara		2012
2,	Erik Bethke	Game Development and Production		2003
3,	Aaron Reed	Learning XNA 4.0: Game Development for the PC, Xbox 360, and Windows Phone 7	O'Reilly	2010



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

Study Programme Accreditation



Computing and Control Engineering



Table 5.2 Course specification

Course:								
Course id:	E2530		Domain Spec	cific Modeling and Langua	ges			
Number of ECTS:	6							
Teacher:		Luković S	uković S. Ivan					
Course status:		Elective						
Number of active tead	hing classe	es (weekly	')					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	0 3 0							
Precondition courses			None					

1. Educational goal:

Getting knowledge about advanced techniques and methods of domain specific modeling and the development of domain specific languages.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in practice, particularly in projects including system specification and development. It is applicable in all problem domains, where meta-meta models are to be used and specific meta-models are to be developed together with domain specific languages so as to solve practical problems.

3. Course content/structure:

Domain specific modeling methods and techniques. A notion and role of a meta-meta model. MOF 2.0 and the equivalent meta-meta models. Software tools for domain specific modeling. A notion, role, taxonomy and evolution of domain specific languages. Domain specific language development methods. Software tools for domain specific language development. Domain specific language implementation techniques. Methods and techniques of the problem domain analysis. Applications of domain specific languages in the domain specific modeling. Model transformations. Program code generators. Applications of domain specific modeling and languages in various problem domains.

4. Teaching methods:

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

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points				
Complex exercises	Yes	10.00	Oral part of the exam	Yes	30.00				
Complex exercises	Yes	10.00							
Exercise attendance	Yes	5.00							
Project	Yes	30.00							
Project task	Yes	15.00							

Literature Ord. Author Title Publisher Year Domain-Specific Modeling: Enabling Full Code Wiley-IEEE Computer Society Kelly S., Tolvanen J. P. 2008 Generation Pres Kleppe A. G., Warmer J, Bast MDA Explained: The Model Driven Architecture: 2. Addison-Wesley 2003 Practice and Promise Formal and Practical Aspects of Domain-Specific 2013 3. IGI Global Mernik M. Languages: Recent Developments Brambilla M., Cabot J., Model-Driven Software Engineering in Practice Morgan & Claypool, USA 2012 Wimmer M



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

Study Programme Accreditation



Computing and Control Engineering



Table 5.2 Course specification

Course:	_		Practicum in computer engineering and computer communications					
Course id:	RT511							
Number of ECTS:	6							
Teachers: Temerinac R. Miodrag, Teslić Đ. Nikola, Popović V. Miroslav, Kovačević V. Jelena, Pap I. Ištvan Samardžija M. Dragan, Kukolj D. Dragan								
Course status:		Elective	Elective					
Number of active tea	ching classe	es (weekly	r)					
Lectures:	Practical	classes: Other teaching types:		Study research work:	Other classes:			
3)	3 0					
Procondition courses			None					

1. Educational goal:

Educating students to use modern programming tools and frameworks for practical work in computer engineering and computer communications.

2. Educational outcomes (acquired knowledge):

Ability to use modern programming tools and frameworks for practical work in computer engineering and computer communications.

3. Course content/structure:

Tutorials and laboratory exercises for state of the art tools and frameworks.

4. Teaching methods:

Classes are held for the purpose of getting to know modern programming tools and frameworks through introductory lectures, and through the series of laboratory exercises for the purpose of training of students for practical work with the tools and frameworks in the area of computer engineering and computer communications.

Knowledge evaluation (maximum 100 points)									
Pre-examination obligations			Mandatory	Points	Final exam Ma		Mandatory	Points	
Laboratory exercise defence			Yes	70.00	Practical part of the exam	Practical part of the exam - tasks Yes			
	Literature								
Ord.	Author			Title	;	Publishe	r	Year	
1,	Boris Radin		Praktikum iz računarske tehnike i računarskih kominikacija, skripta					2012	



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

Study Programme Accreditation

Computing and Control Engineering

Oxford Univ. pres

2004

2012



Table 5.2 Course specification

Course id: E2532 Number of ECTS: 6			
		Automatic Control Systems Project Management	
Teachers:		Kulić J. Filip, Jeličić D. Zoran, Erdeljan M. Aleksandar, Jorgovanović Đ. Nikola	

Course status: Elective

 Number of active teaching classes (weekly)

 Lectures:
 Practical classes:
 Other teaching types:
 Study research work:
 Other classes:

 3
 0
 3
 0
 0

Precondition courses 1. Educational goal:

Students gain knowledge about the basic principles of project management in the field of realization of automatic control systems

None

2. Educational outcomes (acquired knowledge):

The acquired knowledge can be used in solving concrete engineering problems, design plans and monitor the implementation of technical projects.

3. Course content/structure:

Grupa autora

Basic concepts of project management. Project organization. Budget and expenses calculations. Managing resources. Time planning. Control and management of a project. Risk estimation. Project evaluation.

4. Teaching methods:

Lectures, calculation and computer and laboratory practice, consultations.

T.G.Newton; J.P.Eschenbach Engineering economic

Skripte za predmet

Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations Mandatory Points Final exam						Mandatory	Points		
Project	Project Yes 30.00 Theoretical part of the exam				am	Yes	30.00			
	Practical part of the exam - tasks						Yes	40.00		
	Literature									
Ord.	Author			Title	;	Publishe	r	Year		
1,	M. Isailović; M. Bogner	Propis	Propisi o izgradnji objekata			SMEITS		2000		
2,	B.Matić		Projektovanje SAUiR i pravljanje tehnološkim Svjetlost			Svjetlost Sarajevo		1989		



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

Study Programme Accreditation



Computing and Control Engineering



Table 5.2 Course specification

Course:			Dia anata ayant sinaylatian					
Course id:	E2533		Discrete event simulation					
Number of ECTS:	6							
Teachers:		Erdeljan	rdeljan M. Aleksandar, Vukmirović M. Srđan, Čapko Lj. Darko					
Course status:		Elective						
Number of active teac	hing classe	es (weekly)					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	(0 3 0 0						
Precondition courses			None					

1. Educational goal:

Mastering theoretical and practical basics of discrete event simulation.

2. Educational outcomes (acquired knowledge):

Acquired knowledge can be used in solving specific engineering problems, and also present a basis for further understanding of professional courses

3. Course content/structure:

Introduction to DEVS (Discrete-Event System) simulation; Creating of DEVS models, principles, structure of models, objects of simulation; overview of tools for the simulation of discrete events; creation of simple models in the DEVS simulation environment (eg MATLAB, GPSS); Statistical models in simulation, queuing models, random numbers, simulation data analysis, verification and validation of DEVS models, examples of different types of DEVS model system.

4. Teaching methods:

Teaching is conducted through the lectures and computer practice. Throughout the computer practice student is obliged to complete practically oriented tasks.

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

		Literature		
Ord.	Author	Title	Publisher	Year
1,	Bernard P. Zeigler, Herbert Praehofer, Tag Gon Kim	Theory of Modeling and Simulation: Integrating Discrete Event and Continuous Complex Dynamic Systems	Academic Press, San Diego	2000



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

Study Programme Accreditation

Computing and Control Engineering



Table 5.2 Course specification

Course:								
Course id:	AU504		Movement Control					
Number of ECTS:	6							
Teachers:		Jorgovanović Đ. Nikola, Došen R. Strahinja, Bojanić M. Dubravka						
Course status:		Elective						
Number of active tead	hing classe	es (weekly	')					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:			
3	(0						
Precondition courses	ondition courses None							

1. Educational goal:

Students gain knowledge about biomechanics.

2. Educational outcomes (acquired knowledge):

The acquired knowledge is used in future work and education.

3. Course content/structure:

Human body skeleton and muscle system. Study of the dynamics and kinematics of human motion: arm movement (reaching, grasping), standing and walking. Movements in patients with damaged motor system. Methods of causing artificial movement (stimulation of motor and sensory nerves and muscle stimulation). Orthoses and prostheses. Fundamentals of neural prostheses. Nonconventional methods for controll of movement of paralised limbs.

4. Teaching methods:

Lectures, computer practice, project assignments. Consultations.

Knowledge evaluation (maximum 100 points)										
Pre-examination obligations	Mandatory	Points	Final ex	cam	Mandatory	Points				
Homework	Yes	5.00	Oral part of the exam		Yes	30.00				
Homework	Yes	5.00								
Project	Yes	30.00								
Test	Yes	10.00								
Test	Yes	10.00								
Test	Yes	10.00								
Literature										
	·									

		Literature		
Ord.	Author	Title	Publisher	Year
1,	Iwan W. Griffiths	Principles of Biomechanics and Motion Analisys	Lippincott Williams and Wilkins	2005



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Table 5.2 Course specification

Course:											
Course id:	P307A		Flexible technological systems								
Number of ECTS:	6										
Teachers:		Antić T. Aco, Tabaković N. Slobodan, Zeljković V. Milan									
Course status:		Elective									
Number of active teaching classes (weekly)											
Lectures:	Practical classes:		Other teaching types:	Study research work:	Other classes:						
3	()	2	0	0						
Precondition courses			None								

1. Educational goal:

Acquisition of basic knowledge in the field of automated flexible technological systems and structures.

2. Educational outcomes (acquired knowledge):

Knowledge of the AFT structures and their components: machining, manipulating, measuring and controlling, transportation and storage, and computer control system, as well as programming them.

3. Course content/structure:

Introduction to the Flexible technological structures. Basic concepts and levels of complexity. Technological basis for the design and implementation of the AFT structures. Components of automated flexible systems. Numerically controlled machine tools as a component of AFT system and its development trend. Manipulating systems. Measuring and control systems. Transport and storage systems. Computer control systems. Composing of the AFT structures with different levels of complexity. Programming of AFT structures and their components (manual and automated). Programming of the NC machine tools. Programming of manipulating system. Programming of measurement and control systems.

4. Teaching methods:

Classes are held in the form of interactive lectures and laboratory practice and through consultations. In lectures, theoretical lessons is presented and illustrated with examples. Through laboratory exercises a knowledges gained at the example of the Flexible technological cell INDEX GU 600, 160 WHU are applied at the concrete exploitation examples of certain components of the AFT system. In addition to lectures and exercises are also held regular consultations. Exam rating is based on: the presence at lectures and exercises, successfully finished and defended tasks (three tasks), the success at the Colloquium and the oral part of the exam.

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

Literature							
Ord.	Author	Title	Publisher	Year			
1,	Gatalo, R., Rekecki, J. i drugi autori	Fleksibilni tehnološki sistemi za obradu rotacionih izradaka, knjiga 1, 2 i 3	Institut za proizvodno mašinstvo - FTN, Novi Sad	1989			
2,	Rekecki, J.	Osnovi automatizacije mašine alatki	Fakultet tehničkih nauka, Novi Sad	1974			
3,	Tlusty, G.	Manufacturing processes and equipment	Prentice Hall, Inc, Upper Saddle River, New Jerse	2000			
4,	Weck, M., Brecher, C.	Werkzeugmaschinen 4	Springer Berlin Heidelberg	2006			



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Standard 06. Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary international scientific trends and state of the professional field and is comparable with similar programmes at higher education institutions abroad., Computing and Control Engineering study programme is formed in such a way to be complete and comprehensive and provide students with the latest scientific and professional knowledge in this field. Computing and Control Engineering study programme is comparable and coordinated with:

- 1.http://esn.aau.dk/masters/?L=2,
- 2.http://www.htwk-leipzig.de/english/fbeitenglish/eitmeng.htm,
- 3.http://www.eng.ucy.ac.cy/ECE/en/postgraduate/msprograms.html,
- 4.http://www.it.uu.se/grad/areas,
- 5.http://www.k.dendai.ac.jp/intro.html.en

Faculty members, assistants and students have for the last two years been involved in the Campus European project. Campus Europeae is an European student exchange project for studying abroad and comprises a network of 16 universities from EU, Serbia and Montenegro.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Standard 07. Student Enrollment

The Faculty of Technical Sciences, in accordance with social demands and its resources and approved number of students in the accreditation process, enrolls to graduate academic studies-Master of Computing and Control Engineering on budget funded and self funded studies a certain number of students defined each year by the special decision of the Educational and Scientific Council of the Faculty of Technical Sciences.

Students from other study programmes and persons who have completed studies which are worth at least 240 ETCS can enroll into this study programme, as defined by the Regulations on Enrolment of Students to Study Programmes.

The committee for evaluation (formed by all department heads participating in the realization of the study programme) evaluate all the passed examinations of the candidates and based on the accepted number of points determine the year of studies the candidate can enroll to.

Candidates who have compleated appropriate study programe gain right for enrollment at Master academic studies. Committee for quality control decides whether the candidates who gained right for enrollment are obligated to take entering exam. If Committee for quality control decides that examination has to be taken, candidates take the entering exam: tests in the field of study programme.

The selection and enrolment of the applied candidates is based on their success during the previous education, duration of their studies and entrance examination as defined by the Regulations on Enrolment of Students to Study Programmes.

Commitee, in accordance with the Regulations on Enrolment of Students to Study Programmes, has the right to approve enrollment of candidates who have not completed appropriate academic studies which are worth minimum 240 ETCS, if vacancies remain after enrollment of all candidates who meet the requirements. Candidates who whave not completed appropriate undergraduate study programme can be approved to enroll if they successfully pass entering examination. Committee, in that case, determines courses from the undergraduate studies that student must aditionally take and successfully pass. Total number of ETCS credits of those aditional courses determined by Committee can not exceed 30 (thirty). Committee for quality control members are Head of the study programme and Heads of all departments to which the courses from the study programme belong, or teachers who Heads of those departments determine, in acordance with the Regulations on Enrolment of Students to Study Programmes.



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



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. The maximum number of points obtained in a course is 100.

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

Each course at the study programme has a clear and transparent mode of obtaining points. The ways of obtaining points during the classes includes the number of points obtained on the basis of each individual activity during the classes or completing pre exam duties and by passing the course examination.

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

For students to be able to take a course examination, they have to obtain at least 55% of the overall number of points through pre exam duties during the semester. Additional requirements for taking the examination are defined separately for every course.

Student advancement during the studies is defined by the Regulations on studying on master academic studies.

These system of evaluation was introduced with the changes in curriculum effective from 2002/2003 academic year, which according to the available data has provided 70% advancement rate.



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

Study Programme Accreditation





Standard 09. Teaching Staff

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

The number of teachers is adequate to the needs of the study programme and depends on the number of subjects and the number of classes for those subjects. The total number of staff members is adequate for the total number of classes at the study programme, so that a teacher ha san average of 180 classes of active classes (lectures, consultations, tutorials, practice classes, etc.) a year, i.e. 6 classes a week. Of the total number of teachers all 100% are employed full time.

The number of assistant is adequate for the needs of the study programme. The total number of assistants at the study programme is adequate to cover total number o classes so that the assistants have an average of 300 hours of active classes a year, i.e. 10 classes a week. The scientific and professional qualifications of the teaching staff are adequate for the educational and scientific field and the level of their duties. Each teacher has at least five references in the scientific or professional field taught at the study programme.

The size of the group for lecture classes is up to 180 students, for practice classes up to 60 students and for laboratory practice up to 20 students.

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



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Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:				Antić T. Aco				
Acad	emic title:				Assistant Pro	fessor			
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad		
starti	ng date:				01.07.1994				
Scier	ntific or art f	ield:			Machine Tool	s, Flexible 1	echnological Systems and Automatization		
Acad	emic carie	er	Year	Institution			Field		
Acad	emic title e	lection:	2010	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering		
Bach	elor's thesis	S	1993	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	P1402	CAD/C	CAE/CAM i	CIM Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
2.	P301	Autom	ation in Pro	duction Engineering			duction Engineering, Undergraduate Academic		
3.	P304	Proces	ssing and T	echnological Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
4.	P307	Autom	ated Flexib	le Technologial Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
5.	P1405	Conte	mporary Ap	proach to Product Design	ing	(PM0)Pro	PM0) Production Engineering, Master Academic Studies		
6.	P307A	A Flexible technological systems				(E20) Con Academic	nputing and Control Engineering, Master Studies		
7.	PAUP1	PAUP1 Automatization in plastic				(PM0)Pro	duction Engineering, Master Academic Studies		
8.	PP110	PP110 The dynamics of micro machining systems				(PM0)Pro	duction Engineering, Master Academic Studies		
9.	ZRMI1A				industry	(Z01) Safe	ety at Work, Master Academic Studies		
10.	DP001	Engine	eering	arch Methods in Production		(M00) Med	chanical Engineering, Doctoral Academic Studies		
11.	DP010	Workir	ng Systems		ting of	, ,	chanical Engineering, Doctoral Academic Studies		
12.	DP019			technical diagnosis	ting of	(M00) Mechanical Engineering, Doctoral Academic Studies			
13.	ZRD18A	Workir	ng Systems		ung or	(Z01) Safe	ety at Work, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	Antić, A.; Strojniski	Hodolič vestnik	5, J.; Sokovi – Journal d	ć, M.: Development of a N f Mechanical Engineering	Neural-Network g, 2006, Vol. 52	s Tool-Wea , No. 11, str	r Monitoring System for a Turning Process, . 763- 776, ISSN 0039-2480.		
2.							Wear Monitoring Applying Neural Networks, SSUE 1-2, pp 146-151, Poland, 2006, ISSN 1734-		
3.				Budak, I., Antić, A., Kosec ija 51, 1, 2012, pp 113 -11			ts method (FEM) model for the jib structure of a		
4.				ković, M., Kosec, B., Hodo ologije 46, 3, 2012, pp 279	*		l wear on the chip-forming mechanism and tool		
5.				tić, A., Kosec, B.: Special 11, pp 649-655, ISSN: 133		: Theoretica	l background and application, Tehnički vjesnik-		
6.				iković, M., Kosec, B., Novad Geoenvironment, 58, 1,			el influence on chip segmentation and vibrations of 08-7073		
7.		•		k-Marcinčin, J.: Influence 10, 3, 2011, pp14-17, ISS		nd Chip For	ming Mechanism on Tool Vibration, Journal of		
8.				k I., Antić A., Kosec B.: Fa 450-454, ISSN 1350-6307		ion from the	e drive of a cement mill, Engineering Failure		
9.							ysis in Prevention of the Waterway Dredger's 1/10.1016/j.engfailanal.2012.10.009, ISSN 1350-		
10.				, Ungureanu N., Milošević ng and Industrial Enginee			ce Tool Wear and Chip Forming Mechanism on op. 5-8, ISSN 1335-7972		

STAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



		1 3	3 1 3						
Summary data for teacher's scientific or art and professional activity:									
Quotation total :	13								
Total of SCI(SSCI) list papers :	6								
Current projects :	Domestic :	1	International:	2					



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name	e and last n	ame:			Atlagić S. Branislav				
Acad	emic title:				Associate Pro	ofessor			
Name	e of the inst	titution v	vhere the te	eacher works full time and	Faculty of Te	chnical Scie	ences - Novi Sad		
starti	ng date:				07.01.1985				
Scier	ntific or art f	ield:			Computer Engineering and Computer Communication				
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title el	lection:	2011				Computer Engineering and Computer Communication		
PhD	thesis		2001	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering		
Magi	ster thesis		1996	Faculty of Technical Science	ences - Novi S	ad	Electrical and Computer Engineering		
Bachelor's thesis 1984 Faculty of Technical Science			ences - Novi S	ad	Electrical and Computer Engineering				
List o	f courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
						(E20) Cor Academic	mputing and Control Engineering, Undergraduate Studies		
	5000	F000 Legis Besign of Occupants Occitors O				(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies		
1.	E230	Logic I	Logic Design of Computer Systems 2				easurement and Control Engineering, luate Academic Studies		
							rer, Electronic and Telecommunication ng, Undergraduate Academic Studies		
						(E20) Computing and Control Engineering, Undergraduate Academic Studies			
2.	RT49	Paal T	Real Time Software 1			(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies			
2.	1(143	i (Cai i					tware Engineering and Information Technologies, luate Academic Studies		
						tware Engineering and Information Technologies - Indergraduate Academic Studies			
3.	RT49A	Real T	ime Softwa	are 2		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies		
0.							SEO) Software Engineering and Information Technologies, indergraduate Academic Studies		
4.	ESI006	Introdu	ıction to cri	tical mission software for μ	power grids	(ES0) Pov Academic	S0) Power Software Engineering, Undergraduate ademic Studies		
5.	ESI009	Smart	Grid Comn	nunication Protocols		(ES0) Power Software Engineering, Undergraduate Academic Studies			
6.	ESI019	Critica	l mission so	oftware for power grids		(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies		
						(E20) Cor Academic	nputing and Control Engineering, Master Studies		
7.	RT58	Dedica	Dedicated Computer Structure Design 2				tware Engineering and Information Technologies, ademic Studies		
							rer, Electronic and Telecommunication ng, Master Academic Studies		
8.	ESI025	Simula	ation of Pov	ver Greed critical mission s	systems	(ES0) Pov Studies	wer Software Engineering, Master Academic		
9.	ESI033	Advan	ced Power	Grid Communication Prote	ocols	(ES0) Pov Studies	wer Software Engineering, Master Academic		
10.	DRNI02	Select	ed Topics i	n Advanced Software Arch	nitecture	(E20) Cor Academic	nputing and Control Engineering, Doctoral Studies		
Rep	resentative	reffere	nces (minin	mum 5, not more than 10)					
1.	Udžbenik	"Logičk	o projektov	vanje računarskih sistema	II", V.Kovačev	∕ić, B.Atlagio	ć, FTN 2007/2009.		
2.				racevic, "Case study: a ma nance and Evolution, John			vith real-time telecommunications software", h-April issue, 2001.		
3.	D.Kukolj,	M.Berk	o-Pušić, B.		sign of Supervi	sory Contro	I Functions Based on Multylayer Perceptron",		

ASTAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Rep	Representative refferences (minimum 5, not more than 10)								
4.	D.Kukolj, B.Atlagic, M.Petrov, "Data clustering Systems, An Int. Journal, Vol. 37, No. 7, 2006,		neural network", ⁻	Taylor & Francis Inc., Cyberr	netics and				
5.	Generalizovani akviziciono upravljački sistem - GAUS								
6.	B.Atlagic, M.Sagi, D.Milinkov, S.Culaja, B.Bogovac, "A way towards efficiency of SCADA infrastructure", ECBS 2012, Novi Sad 2012.								
7.	B.Atlagic, D.Milinkov, M.Sagi, B.Bogovac, "High-Performance Networked SCADA Architecture For Safety-Critical Systems", ECBS-EERC 2011, Bratislava.								
8.	B.Atlagic, V.Mihić, T.Maruna, "A Methodology for Specification and Development of Control Code in Industrial DCS Application", XIV International Conference on Systems Science, Wroclav 2001.								
9.	B.Atlagic, M.Sagi, D.Milinkov, B.Bogovac, S.C. IEEE Workshop on Model-Based Developmen				ations" , The 9th				
10.	B.Atlagic, D.Kukolj, V.Kovacevic, M.Popovic, "2003, Ljubljana 2003.	Application developme	ent environment o	f an integrated SCADA syste	em", EUROCON				
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	ation total :	0							
Tota	of SCI(SSCI) list papers :	3							
Curre	ent projects :	Domestic :	2	International :	1				

SITAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



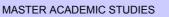
Science, arts and professional qualifications

Nam	ame and last name:				Bojanić M. Dubravka				
	lemic title:				Assistant Pro				
		titution v	vhere the te	eacher works full time and			nces - Novi Sad		
	ng date:			Home fair time and	24.06.2003				
Scier	ntific or art f	ield:			Automatic Control and System Engineering - biomedicine				
Acad	lemic carie	er	Year	Institution		Field			
Acad	Academic title election: 2012 Faculty of Technical Sci			Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering - biomedicine		
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering		
Magi	ster thesis		2003	Faculty of Technical Science	ences - Novi Sa	ad	Automatic Control and System Engineering		
Bach	elor's thesi	S	1998	School of Electrical Engi	ineering - Beog	ırad	Automatic Control and System Engineering		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	AU42	Tochn	ical Equipm	ant for Control Systems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	AU42	I CUIII	icai Equipii	ent for Control Systems		Ùndergrad	asurement and Control Engineering, uate Academic Studies		
2.	AU43	Fundamentals of Biomedical Engineering				Studies	medical Engineering, Undergraduate Academic		
	7.0 10					(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
3.	AU47	DSP Applications in Control Systems				Academic			
	7.017						asurement and Control Engineering, uate Academic Studies		
4.	AU49	Methods of Medical Image Forming and Ar			alysis	(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
5.	AUN43	Biome	dical Engin	eering Technologies		(E20) Con Academic			
6.	GI007	Digital	Signal Pro	cessing in Geomatics		(GI0) Geo Studies	eodesy and Geomatics, Undergraduate Academic		
7.	BMI112	Biome	dical engine	eering in sport physiology		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
8.	BMI113	Neuro	engineering	I		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
9.	BMI114	Neura	l Prosthesis			(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
10.	BMI122	Neuro	rehabilitatio	n		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
11.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
12.	BMI125	Biolog	ical Control	Systems		Studies	medical Engineering, Undergraduate Academic		
13.	E2314	Microp	processor B	ased Control Devices		Académic			
14.	SEAU03	Real-ti	me control	algorithms			tware Engineering and Information Technologies, uate Academic Studies		
15.	SEAU05	DSP Applications in Control Systems				(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies (SEI) Software Engineering and Information Technologies			
16.	SEAU07	Signal	s and syste	ms		(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies			



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

Study Programme Accreditation



Computing and Control Engineering

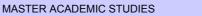


			,, ,			List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type									
17.	SEAU08	Microprocessor Based Control Devi	ces	Undergraduate A	Engineering and Information Academic Studies	_								
	02/1000			Loznića, Underg	Engineering and Information raduate Academic Studies									
18.	AU503	Methods of Analysing Electrophysio	logical Signals	(E20) Computin Academic Studie	g and Control Engineering, es	Master								
19.	AU504	Movement Control		(E20) Computin Academic Studie	g and Control Engineering, es	Master								
20.	AU505	Neural Prostheses		(E20) Computin Academic Studie	g and Control Engineering, es	Master								
21.	AU507	Principles of Biomedical Engineering	g	(E20) Computin Academic Studie	g and Control Engineering, es	Master								
22.	AU508	Information Flow in Medicine		(E20) Computin Academic Studie	g and Control Engineering, es	Master								
23.	ВМІМЗА	Biophysiological systems modelling		(BM0) Biomedic	al Engineering, Master Acad	demic Studies								
24.	ВМІМ3С	Functional Electrical Therapy		(BM0) Biomedic	al Engineering, Master Aca	demic Studies								
25.	SEAM01	Intelligent Control Systems			Engineering and Information									
26.	26. SEAM04 Soft Sensors (SE0) Software Engineering and In Master Academic Studies					n Technologies,								
27.	DAU007	Selected Topics in Artificial Intelliger Signal Processing	nce in Control and	(E20) Computing and Control Engineering, Doctoral Academic Studies										
28.	DAU008	Selected Chapters in Signal Process Engineering	sing in Biomedical	(E20) Computing and Control Engineering, Doctoral Academic Studies										
29.	DAU009	Selected Chapters in Biomedical Ins	strumentation and	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral								
20.	D710000	Telemetry		(OM1) Mathema Studies	atics in Engineering, Doctora	al Academic								
Re	presentative	e refferences (minimum 5, not more th	nan 10)											
1.		Bijelic A., Bijelic G., Jorgovanović N., stimulation , Artificial Organs, 2005,				selective								
2.	Čongrada algorithm	ac V., Bojanić D., Čapko D.: Algorithm and fuzzy logic, Solar Energy, 2012,	n for blinds control base Vol. 86, No 9, pp. 276	ed on the optimiza 2-2770, ISSN 003	ation of blind tilt angle using 88-092X	a genetic								
3.		D., Petrovački-Balj B., Jorgovanović N palsy, Journal of Neuroscience Metho				ren with								
4.	with Para	M.B., Jorgovanovic, N., Bijelic, G., B slysis, Proc of REDISCOVER 2004 So cation in Control and Signal Processin	outheastern Europe, U	SA, Japan and Ει	ropean Community Worksh									
5.		G., Jorgovanovic, N., Bojanic, D., Popo e Grasp and Release by Surface Elect				e: A Tool to								
6.		-Bijelic, A., Bijelic, G., Jorgovanovic, Nelectrical stimulation, Proc 8th Vienna				trode for								
7.)., Petrović R., Jorgovanović N., Popo um on Neural Network Applications in 432-0												
8.		D., Popovic, D.B., "QRS detection frogical Engineering Conference, Vienn		ecordings by using	g dyadic wavelets", 2nd Euro	opean Medical								
9.		D.: Razvoj ekspertnog sistema za intel kultet tehničkih nauka, januar 2012.	rpretaciju elektrofiziolo	ških signala, Dokt	orska disertacija, Univerzite	t u Novom								
10.		Dubravka, "Detekcija QRS kompleksa et u Novom Sadu, Fakultet tehničkih r			relet transformacije", Magista	arska teza,								
Su	mmary data	for teacher's scientific or art and profe	essional activity:											
Quo	tation total :		62											
Tota	Total of SCI(SSCI) list papers: 3													
Curi	ent projects	:	Domestic :	1	International :	1								



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:				Borisov A. Mirko				
	emic title:				Assistant Professor				
		titution v	vhere the te	eacher works full time and			nces - Novi Sad		
	ng date:				01.10.2011				
Scier	ntific or art f	ield:			Automatic Co	ntrol and Sy	ystem Engineering - Geoinformatics		
Acad	emic carie	er	Year	Institution			Field		
Acad	emic title el	lection:	2011	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering - Geoinformatics		
PhD	thesis		2004	Faculty of Civil Engineer	ing - Beograd		Geodesy		
Magi	ster thesis		1997	Faculty of Civil Engineer	ing - Beograd		Geodesy		
Bach	elor's thesis	S	1991	Faculty of Civil Engineer	ring - Beograd		Geodesy		
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	GI013	Gravin	netry			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
2.	GI019	Bathyr	netry			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
3.	GI301A	Advan	ced Geode	sy		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
4.	GI404A	Digital	Terrain Mo	dels		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
5.	GG99	Geospatial technologies - basics					aster Risk Management and Fire Safety, uate Academic Studies		
6.	GI025C	Bases of mathematical cartography				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
7.	GI204A	Basic cartography				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
8.	GI209	Photogrammetry				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
9.	GI406A	Funda	mentals of	Remote Sensing and Imag	ge Processing	Studies (SE0) Soft	desy and Geomatics, Undergraduate Academic tware Engineering and Information Technologies, uate Academic Studies		
10.	GI501	Geopo	rtals and G	eospatial Services		(GI0) Geo	desy and Geomatics, Master Academic Studies		
11.	GI512	Multim	edia Cartog	graphy		(GI0) Geodesy and Geomatics, Master Academic Studies			
12.	GI517	Digital	Photogram	metry		(GI0) Geo	desy and Geomatics, Master Academic Studies		
13.	GI518	Geode	sy in City F	Planning		(GI0) Geo	desy and Geomatics, Master Academic Studies		
14.	GI602	Geode	tic astronor	my		(GI0) Geo	desy and Geomatics, Master Academic Studies		
15.	GI534	Servic	e oriented a	architecture in GIS		(GI0) Geo	desy and Geomatics, Master Academic Studies		
16.	GI535	Mathe	matical cart	ography		(GI0) Geo	desy and Geomatics, Master Academic Studies		
17.	GI540	Valuat	ion of real e	estate		(GI0) Geo	desy and Geomatics, Master Academic Studies		
18.	GI700	Geosp	atial data v	isualization		<u> </u>	desy and Geomatics, Master Academic Studies		
19.	GIAU03	Remot	e Sensing a	and Computer Image Prod	cessing	Académic			
20.	SDGI01	Select	ed topics in	geoinformation systems		(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
21.	SDGI06	Select	ed Chapter	s in Real Estate Cadastre		(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
22.	SDGI10	Select	ed Chapter	s in Landscape Arrangem	ent	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
23.	SDGI1B	B Selected Chapters in Cartography Projections			ns	(GI0) Geodesy and Geomatics, Specialised Academic Studies			
24.	SDGI1C	Select	ed topics in	geospatial data visualizat	tion	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
25.	SDGI1F	Select	ed topics in	photogrammetry		(GI0) Geodesy and Geomatics, Specialised Academic Studies			

TAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List c	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type				
26.	SDGI2F	Selected Chapters in Digital Terrain	Models	(GI0) Geodesy a Studies	and Geomatics, Specialised	Academic			
27.	SDGI3B	Selected Chapters of Thematic Cart	ography	(GI0) Geodesy a Studies	and Geomatics, Specialised	Academic			
28.	SDGI5B	Selected Chapters in Multimedia Ca	rtography	(GI0) Geodesy a Studies	and Geomatics, Specialised	Academic			
29.	SDGI5D	Selected Chapters in the Mass Appr	raisal of Real Estate	(GI0) Geodesy a Studies	and Geomatics, Specialised	Academic			
30.	SDGI5F	DGISF Basic topics in remote sensing and image processing (GI0) Geodesy and Geomatics, Specialised Academic Studies							
31.	SDGI6A	Selected Chapters in Appraisal		(GI0) Geodesy and Geomatics, Specialised Academic Studies					
32.	DGI005	Selected Chapters in Contemporary	Cartography	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
33.	B. DGI007 Selected Chapters in Advanced Geodesy (GI0) Geodesy and Geomatics, Doctoral Academic Studio								
Rep	Representative refferences (minimum 5, not more than 10)								
1.	Mirko Bo 2010	risov; Problems of the Scale and Build	ding of Topographical I	Data Infrastructure	e; Geodetski list, Vol.64 (87) No.2 June			
2.		ca M., Borisov M.: THE ANALYSIS O I. 55, No 4, pp. 713-725, ISSN 0351-0		TOPOGRAPHIC	MAPS (IF 2010=0.215), Ge	eodetski vestnik,			
3.	The Mod	ern architecture of GIS and Cartograp	hic key at the environr	ment of Web Map	Server				
4.	The natio	onal cartographic project in Serbia							
5.	Topograp	phic map at the scale 1:250 000 - The	first map in army of Se	erbia produced ac	ccording to NATO standards				
6.		M.: The concept GIS web portal of the gies - OTEH, Beograd, 6-7 Oktobar, 2		Institute, 4. Intern	ational Scientific Conferenc	e on Defensive			
7.		 Л.: Digitalizovane mape prostora u sis industrijskim područjima", Kosovska 							
8.	Borisov N Februar,	The development and perspective 2006	s of GIS at the scale o	f 1:300 000, 3. In	terGEO East Conference, B	eograd, 22-24			
9.	Dr Mirko	Borisov, dipl. inž Razvoj GIS 2006, ı	monografija , Zadužbin	na Andrejević, Bed	ograd 86 str.				
10.	Borisov N 86-459-0	Л.: Geodetska delatnost u Srbiji 1837. 422-8	-2012. godina, Beogra	ıd, Republički geo	detski zavod, 2012, str. 98-	113, ISBN 978-			
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Total	Total of SCI(SSCI) list papers : 2								
Curre	Current projects : Domestic : 0 International : 0								



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

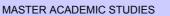
Nam	e and last n	ame.			Bulatović S. \	/ladimir			
<u> </u>	demic title:	uiiic.			Assistant Professor				
		titution v	vhere the te	eacher works full time and			nces - Novi Sad		
	ing date:	atutiOII V	viioie uie le	aonor works full tillite allu	01.03.2003				
Scie	ntific or art f	ield:			Geodesy				
Acad	demic carie	er	Year	Institution		Field			
Acad	demic title e	lection:	2011	Faculty of Technical Sci	ences - Novi S	ad	Geodesy		
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Geodesy		
Mag	ister thesis		2007	Faculty of Organizationa	al Sciences - Be	eograd	Information-Communication Systems		
Bach	nelor's thesis	S	2001	Faculty of Civil Engineer	ring - Beograd		Geodesy		
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	GG08	Geode	esy			(G00) Civi	l Engineering, Undergraduate Academic Studies		
2.	GI019	Bathyr	metry			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
3.	GI025B	Geode	etic Metrolog	gy		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
4.	GI029	Utility	Information	Systems and their Applica	ation	(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
5.	GI210	Mean '	Value Calcu	ulation		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
6.	GI307A	Engineering Geodesy				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
7.	GI207	GNSS basics				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
8.	GI401A	Integrated Systems of Surveying				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
9.	GI403	Metho Proces		se Geodetic Measuremen	its and Data	(GI0) Geo	desy and Geomatics, Master Academic Studies		
10.	GI502	Location	on Based S	ervices		<u> </u>	desy and Geomatics, Master Academic Studies		
11.	GI514	Engine	eering Geoo	desy 3		(GI0) Geodesy and Geomatics, Master Academic Studies			
12.	GI518		sy in City F			(GI0) Geodesy and Geomatics, Master Academic Studies			
13.	GI600			cs in Geomatics		(GI0) Geodesy and Geomatics, Master Academic Studies			
14.	URZP65	Geode		s for the determination of o	geodynamic	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies			
15.	GI531	Applica	ation of GN	SS systems		(GI0) Geodesy and Geomatics, Master Academic Studies			
16.	GIAU02	Positio	n Based Se	ervices		(E20) Con Academic	nputing and Control Engineering, Master Studies		
17.	SDGI02	Select	ed topics in	engineering geodesy		(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
18.	SDGI06	Select	ed Chapter	s in Real Estate Cadastre		(GI0) Geodesy and Geomatics, Specialised Academic Studies			
19.	SDGI10	Select	ed Chapter	s in Landscape Arrangem	ent	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
20.	SDGI12	Select	ed topics in	Inegrated Systems of Sur	rveying	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
21.	SDGI19	Utility	Information	Systems and their Applica	ation	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
22.	SDGI20	Select	ed topics in	Geodynamics		(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
23.	SDGI5D	Selected Chapters in the Mass Appraisal of R			Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies			
24.	SDGI6A	Select	ed Chapter	s in Appraisal		(GI0) Geodesy and Geomatics, Specialised Academic Studies			
25.	DGI002	Select	ed Chapter	s in Engineering Geodesy		(GI0) Geo	desy and Geomatics, Doctoral Academic Studies		
26.	DGI006	<u> </u>				(GI0) Geo	(GI0) Geodesy and Geomatics, Doctoral Academic Studies		

STAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



List	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programm	me name, study type				
27.	DGI009	Selected Chapters in GNSS System	s	(GI0) Geodesy a	and Geomatics, Doctoral Ac	ademic Studies			
28.	DGI010	Selected Chapters in Landscape Arr	rangement	ment (GI0) Geodesy and Geomatics, Doctoral Academic Stud					
29.	DGI019	Selected Chapters in Municipal Infor	mation Systems	(GI0) Geodesy a	and Geomatics, Doctoral Ac	ademic Studies			
Rep	oresentative	refferences (minimum 5, not more th	an 10)						
1.	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 tehnologies 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.		ri: Ninkov T., Bulatović, V. Naziv: Nek og referentnog sistema	e praktične primene A	GROS-a Naziv sk	upa: Konferencija o uvođenj	ju novog			
6.		ri: Ninkov T., Bulatović, V. Naziv: Prim redstava na području Novog Sada Na		ogija u projektima	čišćenja reke Dunav od nee	eksplodiranih			
7.	*****Auto	ri: Ninkov T., Bulatović, V. Naziv: Sav	remene metode izrade	digitalnih topogra	afskih podloga Naziv skupa:	GNP 2006			
8.		ri: Benka P., Bulatović, V. Naziv: GIS linary regional research	in irrigation system me	enagment Naziv s	kupa: VIIth International syn	nposium			
9.	Benka P. 2010, pp.	, Bulatović V.: Geographic Informatio 614-619	n System in Irrigation	System Managen	nent, 7. ISIRR 2003, Hunedo	oara, 1 Januar,			
10.		ri: Z. Sušić, D. Vasić, V. Bulatović, T. onalnih i savremenih tehnologija Nazi		ski monitoring gra	đevinskih objekata korišćen	jem			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total:		0						
Total	Total of SCI(SSCI) list papers: 3								
Curre	Current projects : Domestic : 2 International : 1								



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

Study Programme Accreditation





Science, arts and professional qualifications

Nam	Name and last name:				Čapko Lj. Darko				
	lemic title:				Assistant Pro				
		titution v	vhere the te	eacher works full time and	Faculty of Ted	chnical Scie	nces - Novi Sad		
	ing date:				25.01.1999				
	ntific or art f				Automatic Co	ntrol and Sy	ystem Engineering		
	demic caries		Year	Institution		Field			
	demic title el	lection:	2012	Faculty of Technical Sci			Automatic Control and System Engineering		
-	thesis		2012	Faculty of Technical Sci			Automatic Control and System Engineering		
	ister thesis	_	2002	Faculty of Technical Sci			Automatic Control and System Engineering		
	nelor's thesis		1998	Faculty of Technical Sci			Automatic Control and System Engineering		
LIST	l courses b	eing ne	id by the tea	acher in the accredited stu	day programme	is I			
	ID	Course	e name			Study pro	ogramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
1.	E232	Syston	n Modolina	and Simulation			chnical Mechanics and Technical Design, luate Academic Studies		
'-	LZJZ	Syster	ii wodeling	and Simulation			asurement and Control Engineering, luate Academic Studies		
						(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies		
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies			
2.	H213	System Modelling and Simulation 1				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
						(H00) Med	chatronics, Undergraduate Academic Studies		
3.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	E2312	Software design for SCADA systems				(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
٦.	LZJIZ	Softwa	are design n	or ocaba systems		(SEL) Software Engineering and Information Technology. Undergraduate Academic Studies			
5.	ESI013	Multi-ti	ier applicati	ons development in powe	r systems	(ES0) Power Software Engineering, Undergraduate Academic Studies			
6.	ESI020	Data s	tructures ar	nd algorithms in power sys	stems	(ES0) Pov Academic	ower Software Engineering, Undergraduate ic Studies		
7.	SEAU02	SCAD	A Software			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
	CEALIO0	Coffu		A CCADA aveteres		(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
8.	SEAU09	SOILWA	are design c	of SCADA systems		(SEL) Software Engineering and Information Technologie Loznica, Undergraduate Academic Studies			
						(E20) Con Academic	nputing and Control Engineering, Master Studies		
9.	AU502	Distrib	uted Contro	ol Systems		(MR0) Me Academic	asurement and Control Engineering, Master Studies		
							er, Electronic and Telecommunication g, Master Academic Studies		
10.	BMIM3D	Develo	opment of ir	ntegrated biomedical syste	ems	(BM0) Bio	medical Engineering, Master Academic Studies		
11.	E2533	Discre	te event sin	nulation		(E20) Con Academic	nputing and Control Engineering, Master Studies		
10	EDEDE	Software Algorithms in Supervisory Control			and Data	(E20) Con Academic	nputing and Control Engineering, Master Studies		
12. E2535			sition Syster				er, Electronic and Telecommunication g, Master Academic Studies		

SECTION STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	me name, study type				
13.	ESI024	Applied algorithms in power systems	3	(ES0) Power So Studies	oftware Engineering, Master	Academic			
14.	ESI034	Multi-tier applications development i	n Smart Grids	(ES0) Power So Studies	oftware Engineering, Master	Academic			
15.	SEAM06	Integration of Distributed Control Sys	stems	(SE0) Software Master Academi	Engineering and Information c Studies	n Technologies,			
16.	DAU006	6 Selected Chapters in Modeling and Simulation of Dynamic Systems (E20) Computing and Control Engineering, Doctoral Academic Studies							
17.	DAU018	8 Selected Chapters in Distributed Control Systems (E20) Computing and Control Engineering, Doctoral Academic Studies							
18.	ZRD25A	ZRD25A Selected chapters from Artificial Ingeligence (Z01) Safety at Work, Doctoral Academic Studies							
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N., "Optimization of workflow scheduling in Utility Management System with hierarchical neural network", International Journal of Computational Intelligence Systems., Vol. 4, No. 4, pp. 672-679, 2011., ISSN 1875-6891								
2.	Vukmirović S., Erdeljan A., Lendak I., Čapko D., "A novel software architecture for Smart Metering systems", Journal of Scientific and Industrial Research, Vol. 2010, No. 12, pp. 937-941, 2010., ISSN 0022-4456								
3.	Čapko D., Erdeljan A., Vukmirović S., Lendak I., "A Hybrid Genetic Algorithm for Partitioning of Data Model in Distribution Management Systems", Information technology and control, Vol. 40, No. 4, 2011., ISSN 1392-124X								
4.		., Erdeljan A., Popović M., Švenda G., ', Advances in Electrical and Comput				gement			
5.		Vukmirović S., Erdeljan A., Lendak I. Scheduling ", Information technology				System			
6.		rić S., Erdeljan A., Čapko D., Lendak I engineering, Vol. 107, No. 1, pp. 59-6			n Model with Virtual Meter",	Electronics and			
7.	Čapko D. Systems'	., Erdeljan A., Švenda G., Popović M., ć, Electronics and electrical engineerin	"Dynamic Repartition g, Vol. 121, No. 4, pp.	ing of Large Data 83-85,2012., ISS	Model in Distribution Manaç SN 1392-1215	gement			
8.		rić S., Erdeljan A., Lendak I., Čapko D ", Journal of Applied Research and To				vith Neural			
9.		ric, Srdjan; Erdeljan, Aleksandar; Lend NE DES SCIENCES TECHNIQUES-S							
10.	Velimir Congradae, Marta Prica, Marija Pasnali, Dubrayka Rojanje, Darko Capko: Algorithm for blinds control based on the								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Total	of SCI(SS	CI) list papers :	10						
Curre	ent projects	:	Domestic :	1	International :	0			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:				Čongradac D. Velimir			
Acad	demic title:				Assistant Pro	fessor	
		titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	ences - Novi Sad
	ing date:				15.06.1998		
Scie	ntific or art f	ield:			Automatic Co	ntrol and Sy	ystem Engineering
Acad	demic caries	er	Year	Institution			Field
Acad	demic title e	lection:	2009	Faculty of Technical Sci		Automatic Control and System Engineering	
PhD	thesis		2009	Faculty of Technical Sci			Automatic Control and System Engineering
Magi	ister thesis		2000	Faculty of Technical Sci			Automatic Control and System Engineering
Bach	nelor's thesis	S	1998	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s	
	ID	Course	e name			Study pro	ogramme name, study type
1.	AU43	Funda	mentals of	Biomedical Engineering		Studies	mputing and Control Engineering, Undergraduate Studies
2.	AU50	Proces	ss Control b	y Computer		Academic	mputing and Control Engineering, Undergraduate Studies easurement and Control Engineering,
						Undergrad	luate Academic Studies
3.	GI005	Intellig	ent Control	Systems		Studies	desy and Geomatics, Undergraduate Academic
4.	Z410A	·		ologies and systems		Studies	ronmental Engineering, Undergraduate Academic
5.	Z410	Geoint engles		tehnologije i sistemi(uneti	naziv na	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic
6.	BMI112	Biomedical engineering in sport physiology				(BM0) Bio Studies	medical Engineering, Undergraduate Academic
7.	BMI113	Neuro	engineering	ı		(BM0) Bio Studies	medical Engineering, Undergraduate Academic
8.	BMI120	Equipr disable		stems for helping the elde	erly, ill and	(BM0) Bio Studies	medical Engineering, Undergraduate Academic
9.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic
10.	BMI125	Biolog	ical Control	Systems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic
11.	E2311	Autom	ation in sma	art office-residential buildi	ngs	(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
12.	EMSAU 1	Autom	atic Control	Systems in Electronics		, ,	er, Electronic and Telecommunication ng, Undergraduate Academic Studies
13.	SEAU01	Nonlin	ear progran	nming and evolutionary co	omputations		tware Engineering and Information Technologies, luate Academic Studies
14.	SEAU03	Real-ti	me control	algorithms			tware Engineering and Information Technologies, luate Academic Studies
15.	SEAU04	Softwa	are of BMS			Undergrad (SEL) Sof	tware Engineering and Information Technologies, luate Academic Studies tware Engineering and Information Technologies - Indergraduate Academic Studies
16.	SEAU06	Software of Process Computers				(SE0) Sof Undergrad (SEL) Sof	tware Engineering and Information Technologies, luate Academic Studies tware Engineering and Information Technologies -
17.	ZC037	Automation applied in the industry and built			dinas	(ZC0) Cle	Indergraduate Academic Studies an Energy Technologies, Undergraduate
18.	AU514			Automatic Control System			nputing and Control Engineering, Master
				•		Academic (S01) Pos	Studies stal Traffic and Telecommunications, Master
19.	S054	Compl	uter MOUEIII	ng and Simulation		Àcademic	Studies

ASTRAS STUDIO DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA D

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
20.	SEAM01	Intelligent Control Systems		(SE0) Software Engineering and Information Technologies, Master Academic Studies					
21.	SEAM02	Adaptive and advanced control		(SE0) Software Engineering and Information Technologies, Master Academic Studies					
22.	SEAM03	Software Algorithms in Supervisory Acquisition Systems	Control and Data	(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,			
23.	SEAM05	Dynamic Programming, combinatori optimization	al and network	(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,			
24.	DAU017	Selected Topics from Totally Integra Control Systems	ted Automatic	(E20) Computin Academic Studie	g and Control Engineering, [es	Doctoral			
25.	DAU018	Selected Chapters in Distributed Co	ntrol Systems	' ' '	(E20) Computing and Control Engineering, Doctoral Academic Studies				
Rep	Representative refferences (minimum 5, not more than 10)								
1.	1. Čongradac V., Kulić F.: Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation, Energy and Buildings, 2012, Vol. 47, pp. 651-658, ISSN 0378-7788								
2.		ac V., Jorgovanović N., Stanišić D.: A , 2012, Vol. 48, pp. 146-154, ISSN 03		onsumption for he	eating and cooling in hospita	ls, Energy and			
3.	Čongrada algorithm	ac V., Bojanić D., Čapko D.: Algorithn and fuzzy logic, Solar Energy, 2012,	n for blinds control bas Vol. 86, No 9, pp. 276	sed on the optimiz 2-2770, ISSN 003	ation of blind tilt angle using 38-092X	a genetic			
4.		ac V., Kulić F.: HVAC system optimiz , 2009, ISSN 0378-7788	ation with CO2 concer	ntration control us	ing genetic algorithms, Energ	gy and			
5.		ac V.: Control of the lighting system us6, UDK: 621	ising a genetic algorith	m, Thermal Scier	nce, 2012, Vol. 16, No 1, pp.	237-250, ISSN			
6.		ac V.: Business process managemen 2012, Vol. 16, No 1, pp. 269-279, ISS			ment by using the totalobser	ver, Thermal			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total:		0						
	`	CI) list papers :	6						
Curre	Current projects : Domestic : 1 International : 0								

ASITAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Dejanović R. Igor				
Acad	lemic title:				Assistant Professor				
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad		
starti	ng date:				16.10.2000				
Scie	ntific or art f	ield:			Applied Comp	Applied Computer Science and Informatics			
Acad	lemic carie	er	Year	Institution		Field			
Acad	lemic title e	lection:	2012				Applied Computer Science and Informatics		
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
Magi	ster thesis		2008	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
Bach	elor's thesi	S	2000	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	E235	Funda Engine		Information Systems and	Software	(F10) Eng Studies	ineering Animation, Undergraduate Academic		
							asurement and Control Engineering, uate Academic Studies		
2.	E2S40	Softwa	oro Pattorne	and Components		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
۷.	L2340	Soliwa	are Fallerns	s and Components		(MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
3.	ISIT08	Object	oriented pr	ogramming fundamentals	;		vare and Information Technologies (Inđija), uate Professional Studies		
4.	ISIT26	Upravl	janje projek	ctima			vare and Information Technologies (Inđija), uate Professional Studies		
5.	ISIT27	Osnov	e softverski	ih arhitektura			vare and Information Technologies (Inđija), uate Professional Studies		
6.	ISIT36	Softwa	are Develop	ment Tools			SII) Software and Information Technologies (Inđija), Indergraduate Professional Studies		
7.	ISIT3A	Metod	ologije i sist	temi za upravljanje IT resu	ırsima	(SII) Softw Undergrad	vare and Information Technologies (Inđija), uate Professional Studies		
8.	ISIT48	Tehno	logije i siste	emi za podršku korisnicima	a	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
9.	SES202	Model	Driven Soft	tware Development			tware Engineering and Information Technologies, uate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies		
10.	SES204	Advan	ced Progra	mming Tecnics		Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
		7101011				Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
11.	SES40	Softwa	are patterns	and components		Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
				r		Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
						Academic			
	F05.44	0 "	0	antina Mar		_	ineering Animation, Master Academic Studies		
12.	E2510	Softwa	are Configui	ration Management		Master Aca	tware Engineering and Information Technologies, ademic Studies		
							er, Electronic and Telecommunication g, Master Academic Studies		

TO STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type				
				(E20) Computing and Control Engineering, Master Academic Studies					
				(MR0) Measurement and Control Engineering, Master Academic Studies					
13.	E2519	Domain-Specific Languages		(PM0) Production	on Engineering, Master Acad	demic Studies			
				(SE0) Software Master Academi	Engineering and Information c Studies	n Technologies,			
					ectronic and Telecommunica ster Academic Studies	ation			
14.	DRNI12	Selected Topics in Contemporary So	oftware Development	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral			
		Methods		(F20) Engineeri	ng Animation, Doctoral Acad	demic Studies			
Rep	resentative	e refferences (minimum 5, not more th	an 10)						
1.	Gordana Milosavljević, Igor Dejanović, Branko Perišić: Brz razvoj adaptivnih poslovnih informacionih sistema, Yu Info, Kopaonik: 11-14 mart, 2007								
2.	*****Dejanović I., Perišić B., Milosavljević G.: Implementacija XText DSL-a uz oslonac na arpeggio parser, YU Info 2011 (CD), 6 pages								
3.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain- Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24								
4.		ević G., Dejanović I., Perišić B., Milosa nces in Databases and Information Sy				Applications,			
5.	Symposii	savljević G., Dejanović I., Perišić B.: F um@MODELS 2011: Software Modeli g.de/documents/olnse-2-2011-EduSyr	ng in Education, page	A practical appro	ach to teaching mde. In 7th on, New Zealand, www.se.u	Educators ni-			
6.	Dejanovi	ć I., Perišić B., Milosavljević G.: Arpe	ggio: pakrat parser inte	erpreter, 16. YU II	NFO, Kopaonik, 1-8 Mart, 20	010			
7.		ć I., Milosavljević G., Tumbas Živanov , 15. YU INFO, Kopaonik, 1-8 Mart, 2		na savremenih tel	hnika razvoja softvera u izra	di studentskih			
8.	Dejanovi Kopaonik	ć I., Milosavljević G., Perišić B.: Upor ., 1-8 Mart, 2005	edni prikaz dva popula	arna MDSD/MDA	alata otvorenog koda , 13. \	YU INFO,			
9.	Peričić R. Milosayljavić C. Dejanović I. Milosayljavić R. LIMI. Profile for Specifying User Interfaces of Rusiness Applications								
10.	Dejanović I. Milosavljević G. Tumbas Živanov M. Perišić R. A Domain-Specific Language for Defining Static Structure of								
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Total	of SCI(SS	CI) list papers :	0						
Curre	ent projects	:	Domestic :	0	International:	0			

AS STUDENT FACULTY OF TEC

UNIVERSITY OF NOVI SAD

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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

Science, arts and professional qualifications

Name and last name:						Došen R. Strahinja				
Acad	emic title:					Guest Professor				
		itution v	vhere the te	eacher works full tim	ne and	Aalborg Unive	ersity, Cente	er for Sensory-Motor Interaction, Departmer	nt of	
	ng date:					01.11.2005				
	ntific or art f					Automatic Control and System Engineering - Geoinformatics				
Acad	emic caries	er	Year	Institution				Field		
Acad	emic title el	ection:	2012					Automatic Control and System Engineerin Geoinformatics	ıg -	
PhD	thesis		2008	Aalborg University Interaction, Depar Technology - Pad	tment			Biotechnic Science		
Magi	ster thesis		2004	Faculty of Technic	cal Sci	ences - Novi S	ad	Biotechnic Science		
Bach	elor's thesis	3	2000	Faculty of Technic	cal Sci	ences - Novi Sa	ad	Automatic Control and System Engineerin Geoinformatics	ng -	
List o	of courses b	eing he	ld by the te	acher in the accredi	ted stu	udy programme	:S			
	ID	Course	e name				Study pro	gramme name, study type		
1.	BMI113	Neuro	engineering	ļ			(BM0) Bio Studies	medical Engineering, Undergraduate Acad	emic	
2.	BMI114	Neural	Prosthesis	;			(BM0) Bio Studies	omedical Engineering, Undergraduate Academic		
3.	BMI122	BMI122 Neurorehabilitation					(BM0) Bio Studies	medical Engineering, Undergraduate Acad	emic	
4.	AU504	Moven	nent Contro	ol			(E20) Con Academic	nputing and Control Engineering, Master Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more tha	an 10)					
1.				pert M, Farina D, "M e, vol. 29, no. 5, pp.			Artificial Lim	bs-Is There a Need to Change Focus?," IE	EE	
2.				vski P, Dideriksen J s Biomed Eng, 2012				vel Technology for Motion Capture Using Pa	assive	
3.				nović N, Ilić V, Doše Biol Eng Comput, v				ović DB, "Electrical stimulation for the suppr I.	ession	
4.	Došen S, 2011.	Popovi	ć DB, "Tran	sradial prosthesis:	artificia	al vision for con	trol of prehe	ension," Artif Organs, vol. 35, no. 1, pp. 37-	-48,	
5.				M, Controzzi M, Cai tal evaluation," J Ne				ve vision system for control of dexterous 010.		
6.				MB, Popović DB, " 0.1155/2010/52078		ing arm/hand c	oordination	with an altered visual input," Comput Intell		
7.				Dosen S, Popović M I Neurosci Methods				our-channel stimulation of paretic leg: functi	ional	
8.			lić G, Miler no. 1, pp. 5		ić MB,	Schwirtlich L, '	Lumbar stir	nulation belt for therapy of low-back pain," /	Artif	
9.			ć DB, "Mov . 1298-309,		c optin	mization: desigr	of stimulati	on profiles for walking," IEEE Trans Biome	d Eng,	
10.				erometers and force op. 1973-84, 2008.	e sens	sing resistors fo	r optimal co	ntrol of walking of a hemiplegic," IEEE Trar	ıs	
Sun	Summary data for teacher's scientific or art and professional activity:									
Quotation total: 0										
Total	of SCI(SS	CI) list p	apers :		0					
Current projects : Domestic :					Dome	estic :	0	International: 0		

STAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Erdeljan M. Aleksandar			
Acad	lemic title:				Associate Professor			
Nam	e of the inst	titution v	vhere the te	eacher works full time and	Faculty of Ted	chnical Scie	nces - Novi Sad	
starti	ng date:				24.07.1989			
Scie	ntific or art f	ield:			Automatic Co	ntrol and Sy	ystem Engineering	
Acad	lemic carie	er	Year	Institution			Field	
Acad	lemic title e	lection:	2011				Automatic Control and System Engineering	
PhD	thesis		2000	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Magi	ster thesis		1993	School of Electrical Engi	ineering - Beog	ırad	Automatic Control and System Engineering	
Bach	elor's thesi	S	1989	Faculty of Technical Science	ences - Novi Sa	ad	Automatic Control and System Engineering	
List o	of courses b	eing he	ld by the te	acher in the accredited stu	ıdy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
1.	E126	Syster	n Control, N	Modeling and Simulation			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
2.	E232	System	m Madalina	and Simulation			chnical Mechanics and Technical Design, uate Academic Studies	
۷.	E232	System Modeling and Simulation					asurement and Control Engineering, uate Academic Studies	
						(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
3.	GI303A	Distrib	uted Syster	ms in Geomatics		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
4.	H213	Syster	n Modelling	and Simulation 1		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
						(H00) Med	chatronics, Undergraduate Academic Studies	
5.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
6.	E2312	Softwa	are design f	or SCADA systems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
0.	LZOIZ	Oonwe	are design i	or conditions			tware Engineering and Information Technologies - ndergraduate Academic Studies	
7.	ESI001	Softwa	are Tools in	Power Engineering		Académic		
8.	ESI010	Racios	of control	in power systems		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
0.	L31010	Dasics	or control i	in power systems			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	ESI015	Distrib	uted Comp	uter Systems in Power Sy	stems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
10.	SEAU02	SCAD	A Software				tware Engineering and Information Technologies, uate Academic Studies	
11.	SEAU09	Softwa	are design o	of SCADA systems			tware Engineering and Information Technologies, uate Academic Studies	
- 11.	02,1009	CORWE	aro dodigit c	conton to yout mo			tware Engineering and Information Technologies - ndergraduate Academic Studies	
12.	SEI002	Archite	ecture of Di	stributed Systems in Powe	er Systems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	

RESTAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Computing and Control Engineering

List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programr	me name, study type				
				(E20) Computing Academic Studie	g and Control Engineering, I es	Master			
13.	AU502	Distributed Control Systems		Academic Studie					
					ectronic and Telecommunica ster Academic Studies	ition			
14.	H301	System Modeling and Symulation		(H00) Mechatronics, Master Academic Studies					
15.	S054	Computer Modelling and Simulation		(S01) Postal Tra Academic Studie	affic and Telecommunication	s, Master			
16.	BMIM3D	Development of integrated biomedic	al systems	(BM0) Biomedic	al Engineering, Master Acad	demic Studies			
17.	E2532	Automatic Control Systems Project N	Management	(E20) Computing Academic Studie	g and Control Engineering, I es	Master			
18.	E2533	Discrete event simulation		(E20) Computing Academic Studie	g and Control Engineering, I es	Master			
19.	E2535	Software Algorithms in Supervisory (Control and Data	(E20) Computing Academic Studie	g and Control Engineering, I es	Master			
19.	E2555	Acquisition Systems			ectronic and Telecommunica ster Academic Studies	ition			
20.	ESI030	Distributed Software Architectures for Grids	r Smart Energy	(ES0) Power So Studies	ftware Engineering, Master	Academic			
21.	SEAM06	Integration of Distributed Control Sys	stems	(SE0) Software Engineering and Information Technologic Master Academic Studies					
22.	DAU006	Selected Chapters in Modeling and S Dynamic Systems	Simulation of	(E20) Computing Academic Studie	g and Control Engineering, I es	Doctoral			
23.	DAU018	Selected Chapters in Distributed Con	ntrol Systems	(E20) Computing Academic Studie	g and Control Engineering, [es	Doctoral			
24.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at V	Work, Doctoral Academic St	udies			
Rep	Representative refferences (minimum 5, not more than 10)								
1.		, Erdeljan A., Popović D.: Algorithm f pl. 61, No. 3, 715-721 (2011). ISSN 0		ies in the Commo	n Information Model (CIM),	Computers			
2.		rić S., Erdeljan A., Čapko D., Lendak I cal neural network, International Journ 13							
3.	Čapko D. Systems,	, Erdeljan A., Švenda G., Popović M.: Electronics and electrical engineering	Dynamic Repartitioni g, 2012, No 4(120), pp	ng of Large Data . 83-88, ISSN 139	Model in Distribution Manag 92-1215	jement			
4.		ıkmirović S., Erdeljan A., Kulić F.: Hyl 2012, Vol. 16, No S, pp. 215-224, ISS		etwork System for	Short-Term Load Forecasti	ng, Thermal			
5.		ić S., Erdeljan A., Čapko D., Lendak I engineering, 2011, Vol. 107, No 1, pp			n Model with Virtual Meter, E	Electronics and			
6.		, Erdeljan A., Popović M., Švenda G.: f Advances in Electrical and Compute				nent Systems,			
7.		, Erdeljan A., Vukmirović S., Lendak I UTION MANAGEMENT SYSTEMS, Ir							
8.		ić S., Nedić N., Erdeljan A., Lendak I. Scheduling, Information technology a				System			
9.	and Indu	rić S., Erdeljan A., Lendak I., Čapko D strial Research (JSIR), 2010, Vol. 201	0, No 12, pp. 937-941	, ISSN 0022-4456	3				
10.		, Erdeljan A., Popović M., Švenda G.: 010, str. 555-558, ISBN 978-3-642-15		ship-Based Partition	oning of Large Datasets, LN	CS, Springer			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
—	ation total:		1						
-	` `	CI) list papers :	9			Ι.,			
Curre	ent projects	:	Domestic :	3	International :	0			

HENTAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	e and last n	ame:				Galić P. Zdravko			
Acad	lemic title:					Guest Profes	sor		
		itution v	vhere the te	eacher works full tin	ne and	-			
	ng date: ntific or art f	ialdi				Floatrical and	Computer	Fraincering	
			Year	Institution		Electrical and Computer Engineering Field			
	Fakultet elektrotehnike			hnike i	računarstva - 2	Zagreh -			
Acad	lemic title e	ection:	2011	Zagreb				Electrical and Computer Engineering	
PhD	thesis		1991	Faculty of Civil Er		<u>,</u>		Geodetic Engineering	
Magi	ster thesis		1988	School of Electric			ırad	Applied Computer Science and Informatics	
	elor's thesi		1979	Faculty of Civil Er				Geodetic Engineering	
List o	of courses b	eing he	ld by the te	acher in the accred	ited stu	udy programme	es		
	ID	Course	e name				Study pro	ogramme name, study type	
1.	GI003	Geosp	atial Data I	nfrastructure			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
2.	GI211	Geoinf	formatics				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
3.	GI408A	Geosp	atial Datab	ases			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
4.	GI536	Spatia	l and tempo	oral databases			(GI0) Geo	desy and Geomatics, Master Academic Studies	
5.	GIAU04						(E20) Cor Academic	mputing and Control Engineering, Master Studies	
6.	SDGI01	Selected topics in geoinformation systems					(GI0) Geo Studies	odesy and Geomatics, Specialised Academic	
7.	SDGI1C	Select	ed topics in	geospatial data vis	sualiza	tion	(GI0) Geo Studies	odesy and Geomatics, Specialised Academic	
8.	SDGI3C	Select	ed topics in	Geoportals			(GI0) Geodesy and Geomatics, Specialised Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more tha	an 10)				
1.	Geoprost	orne ba	ze podatak	a					
2.	An Intero	perable	Cartograph	nic Database					
3.	Tempora	I GIS for	r Cadastre						
4.	Razvoj G	IS-orijer	ntiranih apli	kacija u 4GL progra	amskor	m okolišu - obje	ektni pristup		
5.				informacija Interne			•		
6.			-	ation Processing in					
7.				mming Languages:			rocessing P	rospective	
8.				ms: An Approach to				•	
9.				for Spatio-Tempora			<u> </u>		
10.				oral Data Stream S					
\perp									
	Summary data for teacher's scientific or art and professional activity: Quotation total: 0								
	of SCI(SS	CI) list p	apers :		0				
Current projects : Domes					Dome	estic :	1	International: 1	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:			Gostojić L. St	evan				
Acad	emic title:				Assistant Pro	fessor		
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Ted	chnical Scie	nces - Novi Sad	
starti	ng date:				01.04.2007			
Scier	ntific or art f	ield:			Applied Comp	outer Science	ce and Informatics	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2012	Faculty of Technical Sci	ences - Novi Sa	nces - Novi Sad Applied Computer Science and Info		
PhD thesis 2012 Faculty of Technical Sc				Faculty of Technical Sci	ences - Novi Sa	nces - Novi Sad Applied Computer Science and Infor		
Mast	Master's thesis 2006 Faculty of Technical Sc					ad	Applied Computer Science and Informatics	
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
					Academic (MR0) Me	asurement and Control Engineering,		
1.	E2E40	XML a	nd WEB Se	ervices		(SE0) Soft	uate Academic Studies tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Soft	tware Engineering and Information Technologies - ndergraduate Academic Studies	
2.	RI41	Interne	et Software	Architectures			nputing and Control Engineering, Undergraduate	
3.	SEI41	Internet Software Architectures					tware Engineering and Information Technologies, uate Academic Studies	
J.	3LI41	Internet Software Architectures					tware Engineering and Information Technologies - ndergraduate Academic Studies	
4.	ISIT12	Osnove informacionih sistema					vare and Information Technologies (Inđija), uate Professional Studies	
5.	ISIT27	Osnov	e softverski	h arhitektura			vare and Information Technologies (Inđija), uate Professional Studies	
6.	SES102	NoSQI	L Data Base	es		Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
7.	SES301	IT Law	,			Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
8.	E2523	Social	Networks			Àcademic		
						Master Aca	tware Engineering and Information Technologies, ademic Studies	
9.	E2536	Mobile	Application	n Development		Àcadémic		
				· 		Master Aca	tware Engineering and Information Technologies, ademic Studies	
10.	DRNI10	Select	ed Topics ir	n E-Government		Academic		
11.	DRNI18	Select	ed Topics ir	n Distributed/Mobile comp	uting	Academic		
						(F20) Eng	ineering Animation, Doctoral Academic Studies	
Representative refferences (minimum 5, not more than 10)								
1.	(ComSIS), 2012,	ISSN 1820	-0214			n, Computer Science and Information Systems	
2.				avljević B., Konjović Z.: C nd Electronic Commerce,			ontrol Model for Government Services, Journal of 34-213, ISSN 1091-9392	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

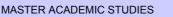


Re	Representative refferences (minimum 5, not more than 10)							
3.	Gostojić S., Sladić G., Milosavljević B., Konjovi Methodologies, Technologies aand Tools Enab pp. 44-55, ISBN 978-86-7892-413-2							
4.	Gostojić S., Sladić G., Milosavljević B.: Importi Information Society Technology and Managem	•	,	System, 1. International Co	nference on			
5.	Sladić G., Gostojić S., Milosavljević B., Konjović Z.: Handling Structured Data in the Alfresco System, 1. International Conference on Information Society Technology and Management, Kopaonik, 7-8 Mart, 2011, pp. 78-82							
6.	Gostojić S., Konjović Z., Milosavljević B.: Modeling MetaLex/CEN Compliant Legal Acts, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica,							
7.	Arsovski S., Konjović Z., Milosavljević B., Gostojić S.: Editori za dokumente pravne regulative bazirani na otvorenim standardima i otvorenim izvorima, 16. YU INFO, Kopaonik, 1-8 Mart, 2010							
8.	Gostojić S., Sladić G., Vidaković M.: Arhiviranj	e dokumenata u Alfre	sco sistemu, 15.	YU INFO, Kopaonik, 1-8 Ma	rt, 2009			
9.	Sladić G., Milosavljević B., Gostojić S.: Digitali 2009	no potpisivanje dokum	enata u Alfresco	sistemu, 15. YU INFO, Kopa	aonik, 1-8 Mart,			
10.	Konjović Z., Milosavljević B., Sladić G., Gostoji	ć S.: Sistem za uprvlj	anje elektronskim	dokumentima, 2010				
Sur	mmary data for teacher's scientific or art and profe	essional activity:						
Quot	tation total :	0						
Tota	l of SCI(SSCI) list papers :	2						
Curr	Current projects: Domestic: 2 International: 0							



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

Study Programme Accreditation



Computing and Control Engineering



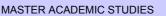
Science, arts and professional qualifications

Name and last name:					Govedarica J. Miro			
	lemic title:	<u> </u>			Full Professor			
		itution v	vhere the te	acher works full time and			nces - Novi Sad	
	ng date:			donor works fair time and	22.02.1994			
Scier	ntific or art f	ield:			Geodesy and	Geomatics	Engineering	
Acad	lemic caries	er	Year	Institution		Field		
Acad	lemic title el	ection:	2012	Faculty of Technical Sci	ences - Novi Sad Geodesy and Geomatics Engineering			
PhD	thesis		2001	Faculty of Technical Sci	ences - Novi Sa	ad	Geoinformatics	
Magi	ster thesis		1998	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics	
Bach	elor's thesis	3	1987	Faculty of Civil Engineer	ing - Sarajevo		Geodesy	
List	of courses b	eing he	ld by the tea	acher in the accredited stu	ıdy programme	:S		
	ID	Course	e name			Study pro	gramme name, study type	
1.	AU54	Geoinf	ormation S	ystems		Academic	nputing and Control Engineering, Undergraduate Studies desy and Geomatics, Undergraduate Academic	
2.	E241	Geosp	atial Techn	ologies		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
3.	F114	Graph	ic applicatio	ns		(F00) Grap Academic	phic Engineering and Design, Undergraduate Studies	
4.	GI003	Geosp	atial Data I	nfrastructure		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
5.	GI020	Laser Scanning of Terrain and Objects				(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
6.	GI025B	Geodetic Metrology				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
7.	Gl211	Geoinformatics				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
8.	GI408A	Geosp	atial Databa	ases		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
9.	URZP44		ation of geo	oinformation technology in	ı risk		aster Risk Management and Fire Safety, uate Academic Studies	
10.	Z410A	Geosp	atial techno	ologies and systems		(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic	
11.	Z410	Geoinf engles		tehnologije i sistemi(uneti	naziv na	(Z20) Environmental Engineering, Undergraduate Academic Studies		
12.	BM119A		plication of ns in medici	geoinformation technolog ne	jies and	(BM0) Biomedical Engineering, Undergraduate Academic Studies		
13.	GG99	Geosp	atial techno	ologies - basics			aster Risk Management and Fire Safety, uate Academic Studies	
14.	GI207	GNSS	basics			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
15.	GI209	Photog	grammetry			(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
16.	GI406A	Funda	mentals of l	Remote Sensing and Imag	ge Processing	Studies (SE0) Soft	desy and Geomatics, Undergraduate Academic tware Engineering and Information Technologies, uate Academic Studies	
17.	ZC028	Geosp	atial techno	ologies and systems			an Energy Technologies, Undergraduate	
18.	GI501	Geopo	rtals and G	eospatial Services		(GI0)Geo	desy and Geomatics, Master Academic Studies	
19.	GI502		on Based S	· ·		` ,	desy and Geomatics, Master Academic Studies	
20.	GI504	Advan	ced Technic	ques of Laser Scanning		, ,	desy and Geomatics, Master Academic Studies	
21.	GI517		Photogram	·		` ,	desy and Geomatics, Master Academic Studies	
22.	GI518		sy in City P	•			desy and Geomatics, Master Academic Studies	
23.	GIAU05		ortals and G	-			nputing and Control Engineering, Master	
						-		



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

Study Programme Accreditation



Computing and Control Engineering



List o	st of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
24.	GI531	Application of GNSS systems	(GI0) Geodesy and Geomatics, Master Academic Studies						
25.	GI532	Advanced Remote Sensing Technologies	(GI0) Geodesy and Geomatics, Master Academic Studies						
26.	GI534	Service oriented architecture in GIS	(GI0) Geodesy and Geomatics, Master Academic Studies						
27.	GI536	Spatial and temporal databases	(GI0) Geodesy and Geomatics, Master Academic Studies						
28.	GI540	Valuation of real estate	(GI0) Geodesy and Geomatics, Master Academic Studies						
29.	GI700	Geospatial data visualization	(GI0) Geodesy and Geomatics, Master Academic Studies						
30.	GIAU02	Position Based Services	(E20) Computing and Control Engineering, Master Academic Studies						
31.	GIAU03	Remote Sensing and Computer Image Processing	(E20) Computing and Control Engineering, Master Academic Studies						
32.	GIAU04	Geospatial data visualization	(E20) Computing and Control Engineering, Master Academic Studies						
33.	SDGI01	Selected topics in geoinformation systems	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
34.	SDGI06	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
35.	SDGI08	Selected topics in laser scanning	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
36.	SDGI10	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
37.	SDGI13	Selected topics in spatial data infrastructure	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
38.	SDGI1C	Selected topics in geospatial data visualization	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
39.	SDGI1F	Selected topics in photogrammetry	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
40.	SDGI3C	Selected topics in Geoportals	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
41.	SDGI5D	Selected Chapters in the Mass Appraisal of Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
42.	SDGI5F	Basic topics in remote sensing and image processing	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
43.	SDGI6A	Selected Chapters in Appraisal	(GI0) Geodesy and Geomatics, Specialised Academic Studies						
44.	DAU011	Selected Chapters in Geographic Information Systems and Technologies	(E20) Computing and Control Engineering, Doctoral Academic Studies						
45.	DGI001	Selected Chapters in Geoinformation Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
46.	DGI003	Selected Chapters in Photogrammetry and Remote Sensing	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
47.	DGI006	Selected Chapters in Real Estate Cadastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
48.	DGI008	Selected Chapters in Laser Scanning	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
49.	DGI009	Selected Chapters in GNSS Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
50.	DGI010	Selected Chapters in Landscape Arrangement	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
51.	DGI013	Selected Chapters in Spatial Data Infrastructure and Standardization	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
52.	DGI019	Selected Chapters in Municipal Information Systems	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
Rep	resentative	refferences (minimum 5, not more than 10)							
1.			neously Estimate the Radius of a Cylindrical Object and the ces, 2009, Vol. 35, Broj 8, str. 1620-1630, ISSN 0098-3004						
2.		Luković I, Govedarica M, "Principi projektovanja baza poda ovi Sad,2004, ISBN: 86-80249-81-5, 700 str.	ataka", II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih						
3.	THE ANA	ca Miro, Borisov Mirko, NLYSIS OF DATA QUALITY OF TOPOGRAPHIC MAPS, L GEODETSKI VESTNIK 0.215) ISSN 0351-0271							



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

Study Programme Accreditation



Computing and Control Engineering



Rep	Representative refterences (minimum 5, not more than 10)								
4.	Miro Govedarica, Dušan Petrovački, Dubravka Sladić, Aleksandra Ristić, Dušan Jovanović, Vladimir Pajić, Milan Vrtunski, Aleksandar Ristic ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY Journal of Environmental Protection and Ecology JEPE 2011 (IF 2010 0.178)								
5.	Govedarica Miro, Boskovic Dubravka, Petrovacki Dusan, Ninkov Tosa, Ristic Aleksandar Metadata Catalogues in Spatial Information Systems (Review) GEODETSKI LIST, (2010), vol. 64 br. 4, str. 313-334 (IF 2009 0.167)								
6.	Jasmina Nedeljković Ostojić, Miro Govedarica, Toša Ninkov, Analysis of Structure Surveying Method by 3D Laser Scanners Geodetski list:glasilo Hrvatskoga geodetskog društva 65(88); 1; (2011) (IF 2010 0.038)								
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multi- geophysical approach, Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171								
8.	Tosa Ninkov, Miro Govedarica, Milan Trifkovic, Geodetski list : glasilo Hrvatskoga geodetskog			ohics Survey Data in Coka N	lunicipality				
9.	Luković I, Mogin P, Govedarica M, Ristić S, "Tl Organizational Sciences (JIOS), Varaždin, Cro				Information and				
10.	O. Govedarica M, Miladinović M: Informacioni sistema katastara nepokretnosti – Terrasoft, Geodetska služba, 2002, Vol. XXXI, No. 92, str. 16- 27, ISSN 0350-7971								
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	tation total :	8	·	<u> </u>					
Tota	l of SCI(SSCI) list papers :	6							
Current projects : Domestic : 5 International : 1									



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name: Hajduković					Hajduković P.	cović P. Miroslav			
Academic title: Full					Full Professor				
					Faculty of Ted	aculty of Technical Sciences - Novi Sad			
					01.07.1993	7.1993			
Scientific or art field: Applied Con						outer Science	ce and Informatics		
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title el	ection:	1998	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics		
PhD	thesis		1984	Faculty of Electrical Eng	ineering - Sara	jevo	Applied Computer Science and Informatics		
Magi	ster thesis		1980	Faculty of Electrical Eng			Applied Computer Science and Informatics		
Bach	elor's thesis	3	1977	Faculty of Electrical Eng	ineering - Sara	jevo	Applied Computer Science and Informatics		
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	S			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	E217	Compi	uter Archite	cture		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
		Compl		otaro		Academic			
2.	E225	Opera	ting System	ns		Academic			
		•				Academic			
						Academic			
3.	E243	Humar	n Computer	Interaction		(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
							(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
4.	4. EE301 Operating Systems and Competitive Programming			ımmina	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies				
					<u> </u>	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
						Academic			
						Àcadémic			
5.	RI4A	Computer Graphics				(F10) Eng Studies	ineering Animation, Undergraduate Academic		
						Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
						Àcadémic			
6.	E2529	Parallel and distributed architectures				Studies	ver Software Engineering, Master Academic		
						Academic			
						Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies		
7.	DAU014	Select	ed Topics ir	n Computing		Academic			
				r 3		(OM1) Mathematics in Engineering, Doctoral Academic Studies			
8.	DRNI18	Select	ed Topics ir	n Distributed/Mobile comp	uting	(E20) Con Academic	nputing and Control Engineering, Doctoral Studies		
						(F20) Engineering Animation, Doctoral Academic Studies			
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	1. Hajduković M., "Programski jezik CONCERT", Pomoćni udžbenik, Fakultet tehničkih nauka, 1995.								

STUDIO ST

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



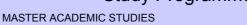
Re	Representative refferences (minimum 5, not more than 10)								
2.	Hajduković M., "Organizacija računara", Pomoćni udžbenik, Fakultet tehničkih nauka, 1996.								
3.	Hajduković M., Suvajdžin Z., "Uvod u međunarodni standard IEC 61131-3", Pomoćni udžbenik, Fakultet tehničkih nauka, 2002.								
4.	Hajduković M., "Operativni sistemi", Osnovni ud	džbenik, Fakultet tehn	ičkih nauka, 2004	ļ.					
5.	Hajduković M., "Arhitektura računara", Osnovni	i udžbenik, Fakultet te	hničkih nauka, 20	04.					
6.	Hajduković M. i ostali, "The active side principle approach to the client server protocol design", YUJOR, vol. 6, no. 1, Belgrade, 1996., 121- 127								
7.	Hajduković M. i ostali, "Uninterruptable and oth	er regions", YUJOR, v	ol. 8, no. 2, Belgr	ade, 1998., 323- 329					
8.	Hajduković M. i ostali, "Communication models: an educational framework for parallel programming", YUJOR, vol. 9, no. 1, Belgrade, 1999., 129- 139								
9.	Hajduković M. između ostalih, "Character oriented program editing – habit or necessity?", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 53- 65								
10.	Hajduković M. između ostalih, "A problem of program execution time measurement", NSJOM, vol. 33, no. 1, Novi Sad, 2003., 67-								
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	Quotation total : 11								
Tota	l of SCI(SSCI) list papers :	3							
Curr	ent projects :	Domestic :	1	International :	0				

TE STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:			Ivanović V. Dragan						
Academic title:			Assistant Professor						
			Faculty of Technical Sciences - Novi Sad						
starting date:					01.04.2007				
Scie	ntific or art f	ield:	•		Applied Comp	outer Science	ce and Informatics		
Acad	demic cariee	er	Year	Institution			Field		
Acad	demic title el	ection:	2010	Faculty of Technical Scient	ences - Novi Sa	ad	Applied Computer Science and Informatics		
PhD	thesis		2010	Faculty of Technical Scient	ences - Novi Sa	ad	Applied Computer Science and Informatics		
Bach	nelor's thesis	3	2006	Faculty of Technical Scient	ences - Novi Sa	ad	Informatics		
Magi	ister thesis		-				Applied Computer Science and Informatics		
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	ogramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	E2E40	YMI a	and WER Se	prvices		(MR0) Me Undergrad	easurement and Control Engineering, luate Academic Studies		
'.	LZL40	XML and WEB Services					tware Engineering and Information Technologies, luate Academic Studies		
							tware Engineering and Information Technologies - Indergraduate Academic Studies		
2.	GG11	Funda	mentals in	Computing		(G00) Civil Engineering, Undergraduate Academic Studies			
3.	ISIT20	Object	t-oriented P	rogramming Platforms		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
4.	ISIT32	Technologies and platforms for digital contendocuments management			ents and		SII) Software and Information Technologies (Inđija), ndergraduate Professional Studies		
5.	ISIT41	eGove	ernment tecl	nnologies and systems		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
6.	ISIT47	E-lean	ning tools a	nd technologies		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
						(F00) Graphic Engineering and Design, Undergraduate Academic Studies			
							easurement and Control Engineering, luate Academic Studies		
7.	SE0001	Introduction to Programming			(P00) Prod Studies	duction Engineering, Undergraduate Academic			
							tware Engineering and Information Technologies, luate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
0	SEC402	Oral	nd written =	ommunication akilla			tware Engineering and Information Technologies, luate Academic Studies		
8.	SES103	Oral and written communication skills					tware Engineering and Information Technologies - Indergraduate Academic Studies		
9.	QE0204	IT Law	,				tware Engineering and Information Technologies, luate Academic Studies		
9.	SES301	II Law					tware Engineering and Information Technologies - Indergraduate Academic Studies		
10	E2507	Digital	Archivos			(E20) Con Academic	nputing and Control Engineering, Master Studies		
10.	E2507	Digital Archives				(SE0) Software Engineering and Information Technologies, Master Academic Studies			

TAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Computing and Control Engineering

List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
				(E20) Computing and Control Engineering, Master Academic Studies					
11.	E2521	Business Process Management		(MR0) Measure Academic Studie	ement and Control Engineer es	ing, Master			
''-	LZJZ1	Dusiness i rocess management		(SE0) Software Master Academi	Engineering and Information ic Studies	n Technologies,			
					ectronic and Telecommunic aster Academic Studies	ation			
12.	E2525	Contemporary educational technology	gies and standards	(E20) Computir Academic Studie	ng and Control Engineering, es	Master			
		Contemporary Caucational Commons	groo and otandardo	(SE0) Software Master Academi	Engineering and Information ic Studies	n Technologies,			
13.	SEM013	E-government technologies		(SE0) Software Master Academi	Engineering and Information ic Studies	n Technologies,			
14.	DRNI02	Selected Topics in Advanced Softwa	are Architecture	Academic Studie					
15.	DRNI06	Selected Topics in Digital Archives		(E20) Computir Academic Studie	ng and Control Engineering, es	Doctoral			
16.	DRNI13	Selected Topics in Scientific-researd managament	ch Activity	(E20) Computing and Control Engineering, Doctoral Academic Studies					
Rep	resentative	refferences (minimum 5, not more th	an 10)						
1.	1. Ivanović, D., Surla, D. & Racković, M. (2010), "A CERIF data model extension for evaluation and quantitative expression of scientific research results", Scientometrics, DOI 10.1007/s11192-010-0228-2, Vol. 86, No. 1, pp. 155-172								
2.		L., Ivanovic, D., Surla, D. (2012), "A o, Online Information Review, Vol. 36,		and dissertations of	compatible with CERIF, Dub	olin Core and			
3.	Ivanović, the MAR pp. 229-2	D., Milosavljević, G., Milosavljević, B. C 21 format", Program: Electronic liba 251	. & Surla, D. (2010), "A rrary and information s	A CERIF-compatib systems, DOI: 10.	ole research management s 1108/00330331011064249,	ystem based on Vol. 44, No. 3,			
4.		D., Surla, D. & Konjović, Z. (2010), "C 1108/02640471111111433, Vol. 29, N		a model based on	MARC 21 format", The Ele	ctronic Library,			
5.	Milosavlje Compliar	ević, G., Ivanović, D., Surla, D. & Milo at Research Management System", Th	savljević, B. (2010), "Ane Electronic Library, V	Automated Constr Vol. 29, No 5, pp.	uction of the User Interface 565-588	for a CERIF-			
6.	publication	c, A., Ivanovic, D., Milosavljevic, B., K nns for CRIS systems", Program: elect 00330331111182094							
7.	Ivanović, Reposito	L., Ivanović, D., Surla, D. (2012), Intery at the University of Novi Sad, Repu	egration of a Research Iblic of Serbia, Library	Management Syr resources and Te	stem and an OAI-PMH Com echnical services, Vol. 56, N	npatible ETDs lo. 2, pp. 104-112			
8.		D., Surla D., Racković M.: Journal ev and Information Systems (ComSIS), 2				el, Computer			
9.	Informaci	oni sistem naučno-istraživačke delatr	nosti						
10.	Ivanović	D.: Sistemi za skladištenje naučnih s	adržaja, Zadužbina Ar	ndrejević, 2011, IS	SBN 978-86-7244-916-7				
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total :		72						
		CI) list papers :	8	1.	1				
Curre	Current projects : Domestic : 2 International : 1								



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

Study Programme Accreditation





Science, arts and professional qualifications

Name and last name:					Ivetić V. Dragan				
Academic title:					Full Professor				
		titution	where the to	acher works full time and		Faculty of Technical Sciences - Novi Sad			
	ing date:	iitutiOII V	ALICIC (IIC (C	acijei works juli lilije diju	22.10.1990				
-	ntific or art f	ield:				outer Science	ce and Informatics		
	demic carie		Year	Institution	FF 30.11	2 3.3.10	Field		
	demic title e		2010	Faculty of Technical Science	ences - Novi S	ad	Applied Computer Science and Informatics		
	thesis		1999	Faculty of Technical Scient			Applied Computer Science and Informatics		
	ister thesis		1994	Faculty of Technical Scient			Applied Computer Science and Informatics		
	nelor's thesis	•	1990	Faculty of Technical Scient			Applied Computer Science and Informatics		
				acher in the accredited stu			Applied Computer Coloride and Informatics		
LIST	l courses b	cing ne	id by the tea	acher in the accredited sit	dy programme	.5			
	ID	Course	e name			Study pro	gramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	E243	Humai	n Computer	Interaction			tware Engineering and Information Technologies, uate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies		
						(F10) Eng Studies	ineering Animation, Undergraduate Academic		
2.	H207	H207 Programming and Programming Languages			3	(H00) Med	chatronics, Undergraduate Academic Studies		
							(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
	RI4A				(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies			
3.		Computer Graphics				(F10) Eng Studies	ineering Animation, Undergraduate Academic		
							tware Engineering and Information Technologies, uate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies		
4.	E0243	Lumai	a Computor	Interaction		(ES0) Pow Academic	ver Software Engineering, Undergraduate Studies		
4.	L0243	Tiulilai	i-Computer	meracion		(F10) Eng Studies	ineering Animation, Undergraduate Academic		
						(E20) Con Academic	nputing and Control Engineering, Master Studies		
5.	E2505	Multimedia Systems				(ES0) Pov Studies	ver Software Engineering, Master Academic		
						(F20) Eng	ineering Animation, Master Academic Studies		
							tware Engineering and Information Technologies, ademic Studies		
6.	E2516	\/irtuc!	Poolity Sys	etome		(E20) Con Academic	nputing and Control Engineering, Master Studies		
0.	E2310	viitual	Reality Sys	<u></u>			tware Engineering and Information Technologies, ademic Studies		
7.	E2528	Comp	iter name d	levelopment		(E20) Con Academic	nputing and Control Engineering, Master Studies		
	L2320	Сопірі	ater game u	о v сторитент			tware Engineering and Information Technologies, ademic Studies		
8.	E2534	Data C	:ompression	n		(E20) Con Academic	nputing and Control Engineering, Master Studies		
		Data	ata Compression				tware Engineering and Information Technologies, ademic Studies		

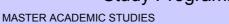
STAS STUDIO

Current projects :

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



List of courses being held by the teacher in the accredited study programmes									
J 1.1.2.7, 1.1.2.1.2.1.1.1.1.1.1.2.1.2.1.1.1.1.1.1									
	ID	Course name		Study programme name, study type					
9.	ESI035	Computer graphic algorithms for sm	art grid systems	(ES0) Power Software Engineering, Master Academic Studies					
10.	ESI036	Visualization techniques in power sy	rstems	(ES0) Power Software Engineering, Master Academic Studies					
11.	DRNI09								
12.	FDS151	Selected Chapters in Multimedia		(F20) Engineering Animation, Doctoral Academic Studies (F00) Graphic Engineering and Design, Doctoral Academic Studies					
13.	FDS152	Selected Topics in Computer Graph	ics	(F00) Graphic Engineering and Design, Doctoral Academic Studies					
14.	DRNI15	Selected Topics in Advanced Comp	uter Graphics	(E20) Computing and Control Engineering, Doctoral Academic Studies					
				(F20) Engineering Animation, Doctoral Academic Studies					
15.	DRNI18	Selected Topics in Distributed/Mobil	e computing	(E20) Computing and Control Engineering, Doctoral Academic Studies					
				(F20) Engineering Animation, Doctoral Academic Studies					
Rep	presentative	e refferences (minimum 5, not more th	an 10)						
1.		gan, Dragan Ivetic, "Request Redirect s in biomedicine, Elsevier, Vol. 107, N		cal Image Archive Implementation", Computer methods and 0169-2607, Aug 2012					
2.	2. Dragan Ivetic, Dinu Dragan, "Medical Image on the go!", Journal of Medical Systems, Springer, Vol. 35, No. 4, pp. 499-516, ISSN 0148-5598, August 2011.								
3.		vetic, Srdjan Mihic, Branko Markoski, ing, Elsevier, Vol. 36, No. 1, pp. 169-1		o file for road surveying", Computers and Electrical January 2010.					
4.				or JPEG2000 Medical Image Streaming", Computer Science 214, pp. 185-203, ComSIS Consortium, Serbia, June 2009.					
5.				nodel", Journal of Applied Systems Studies, Nikitas. A. Cambridge, England, vol. 2, No. 2, 2001					
6.	Journal,			stem for PACS", Ubiquitous Computing and Communication I Image, Vol. 4(3), ISSN: 1992-8424, pp. 642-650, UBICC					
7.	Veljko Petrovic, Dragan Ivetic, "Education and out of the box thinking – linearization of Graham's scan algorithm complexity as fruit								
8.		albaski, Dragan Ivetic, "Some notes ons Research, vol. 6, no. 2, 1996., 277		of streams", Byron Papathanassiou, Ed., Yugoslav Journal of					
9.	Ivetic Dragan, Dinu Dragan, "IPEG2000 Aims To Make Medical Image Ubiquitous", Equation Computer Science, Journal, Vol. 31								
10.	Dragan D., Ivetić D.: Chapter 28: Tools for Ubiquitous PACS System, in "Proceedings of the International Conference on Human- centric Computing 2011 and Embedded Multimedia Computing 2011", Lecture Notes in Electrical Engineering, J.J. Park et al. (eds.), Berlin, Springer, 2011, str. 297-308, ISBN 978-94-007-2104-3								
Sur	mmary data	for teacher's scientific or art and profe	essional activity:						
	tation total:		55						
Total	Total of SCI(SSCI) list papers: 4								

Datum: 18.12.2012 Strana 100

Domestic:

2

International:

0



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

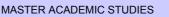
Name and last name:			Jeličić D. Zoran					
Academic title:			Associate Professor					
Traine of the motitation whole the teacher worke fair time and				eacher works full time and	Faculty of Technical Sciences - Novi Sad			
					01.11.1995			
	ntific or art f			1 00 0	Automatic Co	ontrol and Sy	ystem Engineering	
	lemic carie		Year	Institution			Field	
-	lemic title e	lection:	2008	Faculty of Technical So			Automatic Control and System Engineering	
	thesis		2003	Faculty of Technical So			Automatic Control and System Engineering	
─ ─	ster thesis		1999	Faculty of Technical Sc			Automatic Control and System Engineering	
	elor's thesi		1995	Faculty of Technical So acher in the accredited si			Automatic Control and System Engineering	
LIST	ID		•	acrier in the accredited si	udy programme		aramma nama atridu tuna	
	ID	Course	e name			Study pro	ogramme name, study type	
1.	AU41	Digital	Control Sy	stems		Academic		
						Undergrad	asurement and Control Engineering, uate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
2.	E237	Ontimi	zation Meth	node			asurement and Control Engineering, uate Academic Studies	
2.	LZSI	Optimization Methods					tware Engineering and Information Technologies, luate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
3.	E237A	Optimization Methods				(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
4.	F404	Modelling, Simulation and Control				(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies	
5.	GI005	Intellig	ent Control	Systems		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
6.	H1405	Optimi	zation Meth	nods		(H00) Mechatronics, Undergraduate Academic Studies		
7.	H302	Contro	Systems 2	2		(H00) Med	chatronics, Undergraduate Academic Studies	
8.	BM118A	Nonlin	ear prograr	nming and optimal contro	ol .	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
9.	BM130A	Digital	control sys	tems in bioengineering		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
10.	E2316	Real-ti	me control	systems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
11.	SEAU01	Nonlin	ear prograr	nming and evolutionary o	omputations		tware Engineering and Information Technologies, luate Academic Studies	
12.	SEAU03	Real-ti	me control	algorithms			tware Engineering and Information Technologies, uate Academic Studies	
13.	A11511	Adapti	ve and Adv	anced Control		(E20) Con Academic	nputing and Control Engineering, Master Studies	
13.	AU511	Auapti	ve allu AUV	anced Control		(MR0) Me Academic	asurement and Control Engineering, Master Studies	
14.	AT03	Optimi design		control techniques in arc	nitectural	<u> </u>	nitecture, Master Academic Studies	
15.	E2532	Autom	atic Contro	l Systems Project Manag	ement	(E20) Con Academic	nputing and Control Engineering, Master Studies	
16.	DAU005	Select	ed Chapter	s in Optimization Method	S	(M00) Me	chanical Engineering, Doctoral Academic Studies	
17.	DAU010	Selected Chapters in Nonlinear Control Sys			stems	(E20) Computing and Control Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic		
						Studies		
18.	DGI016	Selected Chapters in Systems and Signals				(GI0) Geo	desy and Geomatics, Doctoral Academic Studies	

NAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering

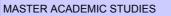


List o	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study programme name, study type						
19.	DAU005	AU005 Selected Chapters in Optimization Methods (E20) Computing and Control Engineering, Do Academic Studies								
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.	Jeličić Z., Kulić F., Čongradac V., Kanović Ž., Živković S.,Praktikum Savremena merenja i instrumentacija iz programa Lifelong Learning, INDAS, 2003.									
2.		ran; Petrovački Nebojša; Optimality C I and Multidisciplinary Optimization IS				oblems,				
3.	Rapaić Milan; Pisano Alessandro; Jeličić Zoran; Usai Elio; Sliding mode control approaches to the robust regulation of linear multivariable fractional order dynamics - International Journal of Robust and Nonlinear Control Volume 20, Issue 18, pages 2045–2056, December 2010									
4.		lilan; Jeličić Zoran; Optimal control of 1-2, 39-51, DOI: 10.1007/s11071-010		eat diffusion syste	ms , Nonlinear Dynamics V	olume 62,				
5.		čić, T. M. Atanacković, Optimal shape 9, (2007) .	of a vertical rotating of	olumn, Internation	onal Journal of Non-Linear M	echanics, 42,				
6.		inovic, Milan R Rapaic, Zoran D Jelici with application in fault detection, App 0186.								
7.		D. Atanacković, T. M.,On an optimiz ATION, (2006) vol.32 br.1 str. 59-64	ation problem for elas	tic rods, STRUCT	URAL AND MULTIDISCIPL	INARY				
8.	Milena Petković, Milan R Rapaić, Zoran D Jeličić, Alessandro Pisano, On-line adaptive clustering for process monitoring and fault									
9.	9. T. M. Atanacković, Z. D. Jeličić, Optimal shape and deformations of a lifting line with winglets. Bulletin de l"Académie Serbe des Sciences et des Arts. Classe des Sciences techniques 29, 57-79 (2003).									
10.	10. T. M. Atanackovic, Y. Huo, Z. Jelicic, I. Mueller, Phase diagrams modified by interfacial penalties, Theoret. Appl. Mech., Vol.34, No.4, pp. 301-338, Belgrade 2007.									
Sur	mmary data	for teacher's scientific or art and profe	essional activity:							
	ation total:		105							
	•	CI) list papers :	7	 		,				
Curre	ırrent projects : Domestic : 2 International : 1									



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

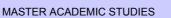
Name and last name:					Jorgovanović Đ. Nikola					
Academic title:					Associate Professor					
Name of the institution where the teacher works full time and				ull time and	Faculty of Technical Sciences - Novi Sad					
						15.11.1999				
	ntific or art f		.,			Automatic Co	ntrol and Sy	ystem Engineering		
	demic carie		Year	Institution				Field		
	demic title el	lection:	2009	_		ences - Novi S		Automatic Control and System Engineering		
—	thesis		2003 1996			ences - Novi S ences - Novi S		Automatic Control and System Engineering Automatic Control and System Engineering		
⊢––	ister thesis nelor's thesis	<u> </u>	1990	- 		ences - Novi S		Electronics		
						udy programme		Liberaries		
	ID		e name					ogramme name, study type		
1.	AU42	Techn	ical Equipm	nent for Control	l Systems		Academic (MR0) Me	nputing and Control Engineering, Undergraduate Studies asurement and Control Engineering, luate Academic Studies		
2.	AU43	Funda	mentals of	Biomedical En	gineering		Studies	medical Engineering, Undergraduate Academic nputing and Control Engineering, Undergraduate		
3.	AU47	DSP Applications in Control Systems					(E20) Con Academic (MR0) Me	nputing and Control Engineering, Undergraduate		
4.	AU49	Methods of Medical Image Forming and Al			ning and An	alysis	(E20) Con	Computing and Control Engineering, Undergraduate nic Studies		
5.	AUN43	Biomedical Engineering Technologies			logies			E20) Computing and Control Engineering, Undergraduate cademic Studies		
6.	GI006	Satellite Navigation and Navigation Service			ion Service		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
7.	GI206	Syster	ms and Sigr	nals in Geomat	tics		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
8.	Z411			Instrumentatio			Studies	ronmental Engineering, Undergraduate Academic		
9.	BM119A		oplication of ns in medic	f geoinformatio ine	n technolog	gies and	Studies	medical Engineering, Undergraduate Academic		
10.	BMI112	Biome	dical engin	eering in sport	physiology		Studies	medical Engineering, Undergraduate Academic		
11.	BMI114		l Prosthesis				Studies	medical Engineering, Undergraduate Academic		
12.	BMI120	Equipr disable		stems for help	oing the elde	erly, ill and	Studies	medical Engineering, Undergraduate Academic		
13.	BMI122	Neuro	rehabilitatio	n			Studies	medical Engineering, Undergraduate Academic		
14.	BMI124	Syster	n Modeling	and Simulation	n		Studies	medical Engineering, Undergraduate Academic		
15.	E2314	Microprocessor Based Control Devices			Devices		Àcadémic			
16.	SEAU05	DSP Applications in Control Systems				Undergrad (SEL) Sof	tware Engineering and Information Technologies, luate Academic Studies tware Engineering and Information Technologies - Indergraduate Academic Studies			
17.	SEAU08	Microprocessor Based Control Devices			Devices		(SE0) Software Engineering and Information Technologie Undergraduate Academic Studies (SEL) Software Engineering and Information Technologie Loznica, Undergraduate Academic Studies			
18.	AU504	Mover	nent Contro	ol				nputing and Control Engineering, Master		

DE SC

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programm	me name, study type				
19.	AU505	Neural Prostheses		(E20) Computing and Control Engineering, Master Academic Studies					
20.	AU507	Principles of Biomedical Engineering	9	(E20) Computing Academic Studie	g and Control Engineering, ! es	Master			
21.	вмімзв	Soft Sensors		(BM0) Biomedic	al Engineering, Master Acad	demic Studies			
22.	вмімзс	Functional Electrical Therapy		(BM0) Biomedic	al Engineering, Master Acad	demic Studies			
23.	BMIM5C	Brain Computer Interface		(BM0) Biomedic	al Engineering, Master Acad	demic Studies			
24.	E2532	Automatic Control Systems Project I	Management	(E20) Computing Academic Studie	g and Control Engineering, I es	Master			
25.	SEAM04	Soft Sensors		(SE0) Software Master Academic	Engineering and Informatior c Studies	Technologies,			
26.	DAU008	Selected Chapters in Signal Process Engineering	sing in Biomedical	(E20) Computing Academic Studie	g and Control Engineering, I es	Doctoral			
27.	DE518	Brain Computer Interface Systems		, , ,	ectronic and Telecommunica ctoral Academic Studies	ation			
28.	DGI016	Selected Chapters in Systems and S	Signals	(GI0) Geodesy a	and Geomatics, Doctoral Ac	ademic Studies			
30	DALIOOO	Selected Chapters in Biomedical Ins	trumentation and	(E20) Computing and Control Engineering, Doctoral Academic Studies					
29.	DAU009	Telemetry		(OM1) Mathema Studies	atics in Engineering, Doctora	Il Academic			
Representative refferences (minimum 5, not more than 10)									
1.	Popović Maneski L., Jorgovanović N., Ilić V., Došen S., Keller T., Popović B. M., Popović B. D.: Electrical stimulation for the suppression of pathological tremor, MED BIOL ENG COMPUT, 2011, Vol. 49, No 10, pp. 1187-1193, ISSN 0140-0118								
2.		Bijelić A., Bijelić G., Jorgovanović N., stimulation , Artificial Organs, 2005,				selective			
3.		ć N., Popović Maneski L., Ilić V., Jorgo stimulation system for restoration of g							
4.		ac V., Jorgovanović N., Stanišić D.: A , 2012, Vol. 48, pp. 146-154, ISSN 03		onsumption for he	eating and cooling in hospita	ls, Energy and			
5.		o., Petrovački-Balj B., Jorgovanović N. palsy, Journal of Neuroscience Metho				Iren with			
6.		R., Mikov A., Ilić V., Jorgovanović N., E ED, 2011, Vol. 5, No 4, pp. 888-893, IS		use of Dynamic E	Electromyography in Gait An	alysis,			
7.		ović N., Došen S., Petrović R.: Novel 2005, Vol. 15, No 5, pp. 27-30, UDK: 6		for Functional Ele	ctrical Therapy, Journal of A	utomatic			
8.		ović N.: Upravljanje funkcionalnom e adu, Fakultet tehničkih nauka, 2003	lektričnom stimulacijor	m za neurorehabil	itaciju pokreta, Novi Sad, Ur	niverzitet u			
9.	Jorgovan	ović N.: NEURON - neuronski računa	arski sistem, Novi Sad	, Univerzitet u Nov	vom Sadu, Fakultet tehničkih	n nauka, 1996			
10.	Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić								
		for teacher's scientific or art and profe							
	ation total :	200 11 4	81						
—	Total of SCI(SSCI) list papers: 6								
Curre	Current projects : Domestic : 1 International : 1								



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

Study Programme Accreditation





Science, arts and professional qualifications

Nissa					Kantardt D. 7			
	e and last n	iame:			Konjović D. Z Full Professor			
	emic title:		.d	a ala a sussantia C. U.C.			neos Novi Sad	
	e of the inst ng date:	itution v	vnere tne te	eacher works full time and	01.10.1981	onnical Scie	nces - Novi Sad	
	ntific or art f	ield:			Applied Computer Science and Informatics			
	emic carie		Year	Institution	Field			
	emic title el		2003	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
	thesis	COLIOI1.	1992	Faculty of Technical Sci			Robotics and Flexible Automation	
	ster thesis		1985	Faculty of Technical Sci			Robotics and Flexible Automation	
<u> </u>	elor's thesis	<u> </u>	1973	Faculty of Sciences - No			Mathematics	
				acher in the accredited stu		98	Mathematics	
Liot	7 0001000 1	cing no	id by the ter	donor in the decreated ste	day programme	.5		
	ID	Course	e name			Study pro	gramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
1.	E231	Numer	rical Algorith	nms and Numerical Softwa	are	Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
2.	E233 Internet Networks					tware Engineering and Information Technologies, uate Academic Studies		
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
3.	E236A	Comp	Computational Intelligence Fundamentals			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
4.	E2K42	Knowledge Based Systems				Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
5.	ISIT41	eGove	ernment tecl	nnologies and systems		Undergrad	vare and Information Technologies (Inđija), uate Professional Studies	
6.	BMI101	Introdu	uction to Me	edical Informatics		Studies	medical Engineering, Undergraduate Academic	
7.	SES103	Oral a	nd written c	ommunication skills		Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
8.	SES301	IT Law	I			Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
0. 02000.		II Law					tware Engineering and Information Technologies - ndergraduate Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
			(E20) Computing and Control Engineering, Master Academic Studies						
9.	E2513	Semantic Web	(PM0) Production Engineering, Master Academic Studies						
			(SE0) Software Engineering and Information Technologies,						
			Master Academic Studies (E20) Computing and Control Engineering, Master						
10.	E2514	Piologically inspired computing	Academic Studies						
10.	L2314	Biologicaly inspired computing	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
			(120) Engineering Management, Specialised Professional Studies						
11.	EP002	EBusiness technologies and systems	(IB0) Engineering Management - MBA, Specialised Professional Studies						
			(E20) Computing and Control Engineering, Master Academic Studies						
12.	E2525	Contemporary educational technologies and standards	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
14.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies						
			(H00) Mechatronics, Doctoral Academic Studies						
1.	DD11107		(E20) Computing and Control Engineering, Doctoral Academic Studies						
15.	DRNI07	Selected Chapters in Computational Intelligence	(OM1) Mathematics in Engineering, Doctoral Academic Studies						
16.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies						
17.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies						
	DAGGIT	ociocica ropics in companing	(OM1) Mathematics in Engineering, Doctoral Academic Studies						
18.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies						
			(E20) Computing and Control Engineering, Doctoral Academic Studies						
19.	DRNI17	Selected Topics in ICT enhanced learning	(OM1) Mathematics in Engineering, Doctoral Academic Studies						
Rep	oresentative	refferences (minimum 5, not more than 10)							
1.		c Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (2011 ts and Systems, Vol. 170 no. 1, pp. 76-94	1). The maximal distance between imprecise point objects,						
2.		c Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Li ⁄stems (rad objavljen u elektronskom obliku http://www.scie	near Fuzzy Space Based Road Lane Detection. Knowledge- ncedirect.com/science/article/pii/S0950705112000032)						
3.		c Aleksandar, Konjović Zora, Milosavljević Branko, Nenac ons: A case study in automatic terminology recognition, Com							
4.		Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (ent Services. Journal of Organizational Computing and Elec							
5.		oran, Milosavljević Branko, Surla Dušan, Konjović Zora (201 c Library (ISSN: 0264-0473), 30:5, pp. 623-652	2). Flexible Access Control Framework for MARC Records.						
6.		ran, Segedinac Milan, Konjović, Zora (2012).Automatic Ger nal Design. Computer Science and Information Systems. Vo							
7.		oran, Milosavljević Branko, Konjović Zora, Vidaković Milan (ns. Computer Science and Information Systems / ComSIS (
8.		Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compat /ol. 29 no. 1, pp. 52-70	ible data model based on MARC 21 format, Electronic						
9.		c Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Kor from scientific publications for CRIS systems, Program-Ele							

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Rep	Representative refferences (minimum 5, not more than 10)									
10.	Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.									
Sur	nmary data fo	r teacher's scientific or art and profe	essional activity:							
Quot	ation total:		0							
Total of SCI(SSCI) list papers :			15							
Curre	ent projects :	_	Domestic :	2	International :	1				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:				Kovačević D. Vladimir				
Acad	lemic title:					Emeritus Pro	fessor		
Nam	e of the inst	titution v	vhere the t	eacher works full tim	ne and	Faculty of Te	chnical Scie	nces - Novi Sad	
starti	ng date:					01.06.2010			
Scie	ntific or art f	ield:				Computer Engineering and Computer Communication			
Acad	lemic carie	er	Year	Institution				Field	
Academic title election: 2008 Faculty of Technical Sci			ences - Novi S	ad	Computer Engineering and Co Communication	mputer			
PhD	thesis		1975	Military-Technical	Facult	ty - Zagreb		Electrical and Computer Engine	eering
Magi	ster thesis		1969	School of Electrica	al Eng	ineering - Beog	ırad	Electrical and Computer Engine	eering
Bach	elor's thesi	S	1963	School of Electrica	al Eng	ineering - Beog	ırad	Electrical and Computer Engine	eering
List	of courses b	eing he	ld by the te	eacher in the accredi	ited stu	udy programme	es		
	ID	Course	e name				Study pro	ogramme name, study type	
							(E20) Con Academic	nputing and Control Engineering Studies	, Master
1.	RT58	Dedica	ated Comp	uter Structure Desig	n 2		(SE0) Soft Master Aca	tware Engineering and Informations ademic Studies	on Technologies,
								er, Electronic and Telecommunions, Master Academic Studies	cation
2.	DRT02	Select	ed Tonics i	in Computer System	Δrchit	tectures	(E20) Con Academic	nputing and Control Engineering Studies	, Doctoral
۷.	DICTOZ	OCICOR	cu ropics	in computer cystem	T AT CITI	icciarcs	(OM1) Ma Studies	thematics in Engineering, Docto	ral Academic
Representative refferences (minimum 5, not more than 10)									
1.	V.Kovače Novom S			.Temerinac, N.Teslid	ć, Arhit	tekture i algoriti	mi digitalnih	signal procesora I, Fakultet tehr	iičkih nauka u
2.	V. Kovač 2002.	ević, M.	Popović, S	Sistemska programs	ka pod	drška u realnom	n vremenu,L	Jniverzitet u N. Sadu, Fakultet te	hničkih nauka,
3.	Lecture N	lotes in	Computer		ors: G.	. Goos, J. Hartr	manis, J. va	plementation, Networking - ICN 2 n Leeuwen, Volume Editor: P. Lo	
4.								with real-time telecommunication filey & Sons, Ltd., 2001, No. 13, p	
5.			Popović, E. No.1, 1991		nents fo	or Operating Sy	stems inclu	ided in Virtual Machine System",	System Science
6.				Temerinac, "An App March 2000.	roach	in Fast IC Dev	elopment fo	r Digital Video Processing based	on FPGA-s",
7.		URASIF	Journal o	,				et-Domain Video Denoising Imple 1 16035, pp. 1-12, ISSN 1687-39	
8.	Denoisin	g Syster	,	notes in computer s			0	nplementation of a Wavelet-Dom 2005, pp. 650-657, ISSN 0302-9	
9.			ačević V.: A ISSN 0302		net-Ba	ased Virtual Ca	II Center Imp	plementation , Lecture notes in c	omputer science,
10.								Digital Video Processing Based elfak.ni.ac.rs/fu2k02/fu10.pdf	on FPGA-s,
Sur	mmary data	for teac	her's scier	ntific or art and profe	ssiona	activity:			
Quotation total: 39									
Total	of SCI(SS	CI) list p	apers :		3				_
Curre	ent projects	:			Dome	estic :	1	International:	0

NESTAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name	e and last n	ame [.]			Kovačević V. Jelena			
	emic title:				Assistant Pro			
Nam	e of the inst	titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:				01.12.1999			
Scier	ntific or art f	ield:			Computer En	gineering ar	nd Computer Communication	
Acad	emic carie	er	Year	Institution	Field		Field	
Acad	Academic title election: 2011 Faculty of Technical Science			ences - Novi Sa	ad	Computer Engineering and Computer Communication		
PhD	thesis		2010				Computer Engineering and Computer Communication	
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Engineering and Computer Communication	
Magi	ster thesis		2003	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Engineering and Computer Communication	
Bach	elor's thesi	S	1997	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Engineering and Computer Communication	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	ıdy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
1.	DT44	RT44 DSP Architecture and Algorithms 1					asurement and Control Engineering, luate Academic Studies	
1.	K144					(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
2.	RT46	DSP Architecture and Algorithms 2				(MR0) Measurement and Control Engineering, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologi Undergraduate Academic Studies		
2.	K140							
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
3.	RT52	Dedica	ated Compu	iter Structure Design 2		(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
						(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
4.	IGB340	Funda	mentals of	Engineering Animation		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
5.	EK465	Archite	ectures of d	igital signal processors			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Master Studies	
6.	RT59	Real-T	ime Systen	n Desian		(MR0) Me Academic	asurement and Control Engineering, Master Studies	
"	11100	r.car-1	ic Gystell	Doorgii			tware Engineering and Information Technologies, ademic Studies	
						Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies	
7.	RT511			puter engineering and con	nputer	(E20) Con Academic	nputing and Control Engineering, Master Studies	
	7. RT511 communications					tware Engineering and Information Technologies, ademic Studies		
8.	DRT06	Select	ed chapters	s on DSP systems		(E20) Con Academic	nputing and Control Engineering, Doctoral Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)								
1.	Kovacevic Jelena, Samardzija Dragan, Temeri networks", IEEE TRANSACTIONS ON CONSU (M22)								
2.	Kovacevic Jelena, Samardzija Dragan, Temerinac Miodrag, "Optimized Joint Coding Algorithm for Audio Streaming in Short Range Wireless Networks", International Conference on Consumer Electronics, Las Vegas, ISBN: 978-1-4244-4701-5, Izdavac: IEEE Consumer Electronic Society, 2009.								
3.	Simic Dragan, Lukac Zeljko, Stefanovic Dejan, Kovacevic Jelena, Babic-Zdravkovic Sanja, "Real-time implementation of waveform interpolative voice codec with aspect to very low bit-rates" MIPRO - International convention on information and communication technology, electronics and microelectronics, Croatian Society For Microprocessor Systems And Information Systems, Microelectronics And Electronics, ISBN: 953-233-003-8, 2004.								
4.	Jovanovic Marija, Kovacevic Jelena, "Partitioning DSP Applications on a Multi-core Architecture Based on Load Balancing", IEEE Eastern European Conference on the Engineering of Computer Based Systems, Str: 154 – 155, ISBN: 978-1-4244-4677-3, Izdavac: IEEE, 2009.								
5.	Jovanovic Marija, Sajic Dejan, Kovacevic Jeler two cores", International Conference on Digital								
6.	Popovic Miroslav,Basicevic Ilija,Velikic Ivan, Kovacevic Jelena, "A Model-Based Statistical Usage Testing of Communication Protocols",13th Annual IEEE International Symposium and Workshop on Engineering of Computer Based Systems (ECBS"06), Str: 377 – 386, ISBN: 0-7695-2546-6, Izdavac:ECBS								
7.	Popovic Miroslav, Kovacevic Jelena, "A Statist Conference and Workshop on Engineering of C 2007.								
8.	Djukic Miodrag, Četic Nenad, Kovačević Jelena DSP Applications on a Class of Embedded Sys				∖udio				
9.	Gajic Marko, Kovacevic Jelena, Petrovic Djordje, Temerinac Miodrag, Teslic Nikola, "A SMART POST PROCESSING ALGORITHM FOR REMOVING AUDIO DISTORTION" IBC 2011, Amsterdam Vol., Nr., Str.0-0, ISBN:, ISSN:, Izdavac: IBC 2011								
10.	Gajic Marko, Kovacevic Jelena, Djukic Miodrag, Peckai-Kovac Robert, "Using a Simple Algorithm in SPP for Audio Quality 10. Improvement Checkout" 19th Telecommunications forum TELFOR 2011, Serbia, Belgrade, November 22-24, 2011.Vol., Nr., Str.1115-1118, ISBN:978-1-4577-1498-6, ISSN:CFP1198P-CDR, Izdavac: Društvo za telekomunikacije – TELFOR								
Su	mmary data for teacher's scientific or art and profe	essional activity:							
Quo	tation total :	0							
Tota	I of SCI(SSCI) list papers :	0							
Curr	ent projects :	Domestic :	0	International ·					



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam starti Scier	e of the inst	1441					Kovačević D. Aleksandar		
starti Scier			Academic title:			Assistant Professor			
Scie		itution v	here the te	acher works full time and	Faculty of Ted	chnical Scie	nces - Novi Sad		
	ng date:				15.07.2007				
	ntific or art f				Applied Comp	outer Science	ce and Informatics		
	Academic carieer Year Institution					Field			
-	lemic title el	ection:	2012	Faculty of Technical Science			Applied Computer Science and Informatics		
	thesis		2011	Faculty of Technical Science			Informatics		
⊢ <u> </u>	ster thesis	_	2006	Faculty of Technical Sciences No.		ad	Informatics		
	elor's thesis		2003	Faculty of Sciences - No		_	Information-Communication Systems		
LIST	or courses b	eing nei	d by the tea	acher in the accredited stu	idy programme	:S			
	ID	Course	e name			Study pro	gramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	E2K42	Knowle	edge Based	d Systems		Ùndergrad	tware Engineering and Information Technologies, uate Academic Studies		
						Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
2.	ISIT03	Introdu	iction to Pro	ogramming			vare and Information Technologies (Inđija), uate Professional Studies		
3.	ISIT27	Osnov	e softverski	ih arhitektura			vare and Information Technologies (Inđija), uate Professional Studies		
4.	ISIT29	XML Technologies					SII) Software and Information Technologies (Inđija), Indergraduate Professional Studies		
5.	ISIT47	E-learning tools and technologies					SII) Software and Information Technologies (Inđija), ndergraduate Professional Studies		
6.	GI111	Information technologies in geodesy				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
7.	SES203	203 Machine Learning					tware Engineering and Information Technologies, uate Academic Studies		
,.	020200	WIGOTH	To Loanning				tware Engineering and Information Technologies - ndergraduate Academic Studies		
8.	E2503	Data M	Mining and [Data Analysis Systems		(E20) Con Academic	nputing and Control Engineering, Master Studies		
	22000	Data iv	g and I	Sata / Maryolo Gyotemo			tware Engineering and Information Technologies, ademic Studies		
9.	E2514	Biologi	icaly inspire	ed computing		Academic			
	22017	Diologi	Jany mopile	- Jonipulliy		(SE0) Soft Master Aca	tware Engineering and Information Technologies, ademic Studies		
10.	GS014	The ap		finformation technologies	in energy	(G10) Ene Studies	ergy Efficiency in Buildings, Specialised Academic		
11.	E2524	Text M	linina			Academic			
		. 57.6 10	···· J			Master Aca	tware Engineering and Information Technologies, ademic Studies		
12.	E2527	Busine	ess Intellige	nce		Academic			
						Master Aca	tware Engineering and Information Technologies, ademic Studies		
13.	SEM005	Decision	on Support	Systems		Master Aca	tware Engineering and Information Technologies, ademic Studies		
						(E20) Con Academic	nputing and Control Engineering, Doctoral Studies		
14.	DRNI07	Select	ed Chapters	s in Computational Intelligence			thematics in Engineering, Doctoral Academic		
15.	DRNI14	Select	ed Chapter	s in Machine Learning		(E20) Con Academic	nputing and Control Engineering, Doctoral Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



2	Representative renerances (minimum 5, not more than 10)								
1.	Pretraživanje zvučnih zapisa								
2.	Adaptivni sistem za pretraživanje zvučnih zapis	sa							
3.	Kovačević, A., Milosavljević, B. "The Use of R-Conference on Industrial Systems, Herceg Nov		ed Audio Retrieva	al". In Proceedings of the 13	th Scientific				
4.	Kovačević A., Milosavljević, B., Konjović, Z. "Tjuniranje prostora osobina za pretraživanje zvučnih zapisa". Zbornik radova YUInfo 2006, Kopaonik, Srbija, 2006. ISBN: 86-85525-01-2. M63								
5.	Kovačević, A., Milosavljević, B., Konjović, Z., and Vidaković, M. 2010. "Adaptive content-based music retrieval system". Multimedia Tools and Applications, 47(3) (May. 2010), pp. 525-544. doi: http://dx.doi.org/10.1007/s11042-009-0336-2. ISSN: 1380-7501 (Print), 1573-7721 (Online). M23.								
6.	Kovačević, A., Ivanović D., Milosavljević B., Konjović Z., Surla D., 2011. "Automatic extraction of metadata from scientific publications for CRIS systems" Program: Electronic library and information systems, 45(4), pp. 376 - 396. doi: http://dx.doi.org/10.1108/00330331111182094. ISSN: 0033-0337. M23								
7.	7. Aleksandar Kovačević, Automatizovano izdvajanje semantike iz naučnih članaka u oblasti informatike, doktorska disertacija, Fakultet tehničkih nauka, Novi Sad, 2011.								
8.	Majstorović D, Pele Z, Kovačević A, Čelanović the First IEEE Eastern European Conference of 2009. ISBN: 978-0-7695-3759-7. M33								
9.	Slivka, J. Kovačević, A., Konjović, Z., 2010. "Co-training based algorithm for datasets without the natural feature split." In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 279-284, 2010. ISBN: 978-1-4244-7395-3. M33								
10.	Miljković, D., Gajić, Lj., Kovačević, A., Konjović, Z., 2010. The use of data mining for basketball matches outcomes prediction. In Proceedings of the 8th International Symposium on Intelligent Systems and Informatics, Subotica, Serbia, 2010. 309-312. ISBN: 978-1-4244-7395-3. M33.								
Sui	mmary data for teacher's scientific or art and profe	essional activity:							
Quo	tation total :	12							
Tota	l of SCI(SSCI) list papers :	3							
Curr	ent projects :	Domestic ·	2	International ·	10				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



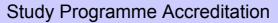
Science, arts and professional qualifications

Nam	Name and last name:				Kukolj D. Dragan					
	emic title:					Full Professor				
Nam	e of the inst	itution v	vhere the te	acher works full tim	ne and	Faculty of Ted	chnical Scie	nces - Novi Sad		
starti	ng date:					01.05.1983				
Scier	ntific or art f	ield:				Computer En	gineering ar	nd Computer Communication		
Acad	emic caries	er	Year	Institution				Field		
Acad	Academic title election: 2003 Faculty of Technical Sci			cal Scie	ences - Novi Sa	ad	Computer Engineering and Computer Communication			
PhD	thesis		1993	Faculty of Technic	cal Scie	ences - Novi Sa	ad	Electrical and Computer Engineering		
Magi	ster thesis		1988	Faculty of Technic	cal Scie	ences - Novi Sa	ad	Electrical and Computer Engineering		
Bach	elor's thesis	3	1982	Faculty of Technic	cal Sci	ences - Novi S	ad	Electrical and Computer Engineering		
List	of courses b	eing hel	ld by the te	acher in the accredi	ited stu	udy programme	s			
	ID	Course	e name				Study pro	ogramme name, study type		
1.	RT43	Engine	ering of Co	omputer Based Syst	tems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
								tware Engineering and Information Technologies, uate Academic Studies		
							(E20) Con Academic	nputing and Control Engineering, Master Studies		
2.	RT59	Real-T	ime Syster	n Design			(MR0) Me Academic S	asurement and Control Engineering, Master Studies		
۷.	1(100	i (Cai-i	iiie Oystei	Design				tware Engineering and Information Technologies, ademic Studies		
								er, Electronic and Telecommunication g, Master Academic Studies		
	Practicum in computer engineering and cor			nd con	nputer	(E20) Con Academic	nputing and Control Engineering, Master Studies			
3.	RT511		unications	0 0		· 	(SE0) Soft Master Aca	EO) Software Engineering and Information Technologies, aster Academic Studies		
4.	DRT09	Comp	utational Int	elligence Based Sy	stems		(E20) Computing and Control Engineering, Doctoral Academic Studies			
Rep	oresentative	reffere	nces (minin	num 5, not more tha	an 10)					
1.			i, Identificat ary 2004, p		stems E	Based on Neura	al and Takaç	gi-Sugeno Fuzzy Model, IEEE SMC-part B, Vol.		
2.	D. Kukolj 120, No.	, S. Kuz 1, May 2	manovic, E 2001, pp. 1	. Levi, Design of a N 7-34.	Near-O	ptimal, Wide-R	Range Fuzzy	y Logic Controller, Fuzzy Sets & Systems, Vol.		
3.	D. Kukolj Intelligen	, S. Kuz ce, Vol.	manovic, E 14, no. 6, 2	. Levi, Design of a F 2001, pp. 785-803.	PID-Lik	ke Dual Fuzzy I	_ogic Contro	oller, IFAC Engineering Applications of Artificial		
4.	,		0 /	rov, Unlabeled data 5, pp. 779-790.	cluste	ring using a re-	organizing r	neural network, Cybernetics and Systems, An Int.		
5.				sory Control Function			rward Neura	al Networks, Cybernetics & Systems: An		
6.				rota, Applied Unsur ns, Vol.33, No. 3, 19			Model Redu	ction of Linear Dynamic Systems, Computers &		
7.	D. Kukolj	, ALGOI	RITMI MRE	ŽNOG PROGRAM	IRANJ.	A, Univerzitet ι	Novom Sa	du, Novi Sad, 2001.		
8.	,	•	ć, PROJEK vi Sad, 199		IA AUT	OMATSKOG (JPRAVLJAN	NJA U PROSTORU STANJA, Univerzitet u		
9. Kukolj D., Bengin V., Kulic F., OSNOVI KLASICNE TEORIJE AUTOMATSKOG UPRAVLJANJA kroz resene probleme, Somel, Sombor, 1995										
10. D. Kukolj, Sistemi zasnovani na računarskoj inteligenciji, monografija 26, FTN, Novi Sad, 2007.										
Summary data for teacher's scientific or art and professional activity:										
	Quotation total: 50									
Total	Total of SCI(SSCI) list papers : 15				15					
Current projects : Dome			Dome	estic :	1	International: 1				

FACULTY OF TECHNIC

UNIVERSITY OF NOVI SAD

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



MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:				Kulić J. Filip			
Acad	lemic title:				Associate Pro	ofessor		
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad	
starti	ng date:				01.09.1994			
Scier	ntific or art f	ield:			Automatic Co	matic Control and System Engineering		
Academic carieer Year Institution				Institution	Field			
Acad	lemic title el	ection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
PhD	thesis		2003	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Magi	ster thesis		1999	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Bach	elor's thesis	3	1994	Faculty of Technical Sci	ences - Novi S	ad	Electroenergetics	
List	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
	A1144	0	1.0	Decima		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
1.	AU44	Contro	l Systems I	Design			asurement and Control Engineering, uate Academic Studies	
	_					(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(H00) Med	chatronics, Undergraduate Academic Studies	
2.	E226	Automatic Control Systems				(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
						(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
3.	E238A	Control Systems Technology				(E20) Computing and Control Engineering, Undergrad Academic Studies		
							asurement and Control Engineering, uate Academic Studies	
4.	EEI302	Syston	ns of Autom	natic Control in Power Eng	rincoring	(ZC0) Clea	an Energy Technologies, Undergraduate Studies	
4.	LLISUZ	Syster	iis oi Autori	latic Control III Fower Eng	gineering		er, Electronic and Telecommunication g, Undergraduate Academic Studies	
5.	H1405	Optimi	zation Meth	nods		(H00) Mechatronics, Undergraduate Academic Studies		
6.	H302	Contro	l Systems 2	2		(H00) Med	chatronics, Undergraduate Academic Studies	
7.	M325	Autom	atic Control	Systems			chanization and Construction Engineering, uate Academic Studies	
8.	BMI125	Biolog	ical Control	Systems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
9.	E2315	Electri	cal Machine	es in Automatic Control Sy	/stems		asurement and Control Engineering, uate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
10.	EMSAU 1	Autom	atic Control	Systems in Electronics			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
11.	SEAU01	Nonlinear programming and evolutionary co			omputations	(SE0) Software Engineering and Information Technologi Undergraduate Academic Studies		
12.	SEAU03	Real-time control algorithms				(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
13.	DE410S	Select	ed Topics ir	n the Field of Automatic C	ontrol		ver, Electronic and Telecommunication g, Specialised Academic Studies	



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

Study Programme Accreditation



Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
			(E20) Computing and Control Engineering, Master Academic Studies						
14.	E2515	Intelligent Control Systems	(MR0) Measurement and Control Engineering, Master Academic Studies						
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies						
15.	M2550	Automatic Control Systems in Motor Vehicles	(M22) Mechanization and Construction Engineering, Master Academic Studies						
16.	E2532	Automatic Control Systems Project Management	(E20) Computing and Control Engineering, Master Academic Studies						
17.	SEAM01	Intelligent Control Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
18.	DAU007	Selected Topics in Artificial Intelligence in Control and Signal Processing	(E20) Computing and Control Engineering, Doctoral Academic Studies						
19.	DE410	Selected Topics in the Field of Automatic Control	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies						
10.	DETIO	ociected ropies in the Field of Automatic Gonitor	(OM1) Mathematics in Engineering, Doctoral Academic Studies						
			(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies						
			(E20) Computing and Control Engineering, Doctoral Academic Studies						
			(F00) Graphic Engineering and Design, Doctoral Academic Studies						
			(F20) Engineering Animation, Doctoral Academic Studies						
			(G00) Civil Engineering, Doctoral Academic Studies						
20.	SID04	Current State in the Field	(GI0) Geodesy and Geomatics, Doctoral Academic Studies						
20.	OID04	Current State III the Fleid	(H00) Mechatronics, Doctoral Academic Studies						
			(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
			(M00) Mechanical Engineering, Doctoral Academic Studies						
			(OM1) Mathematics in Engineering, Doctoral Academic Studies						
			(S00) Traffic Engineering, Doctoral Academic Studies						
			(Z00) Environmental Engineering, Doctoral Academic Studies						
21.	DAU017	Selected Topics from Totally Integrated Automatic Control Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies						
			(A00) Architecture, Doctoral Academic Studies						
22.	SID04	Present State in the Field	(AS0) Scenic Design, Doctoral Academic Studies						
			(Z01) Safety at Work, Doctoral Academic Studies						
Rep	oresentative	e refferences (minimum 5, not more than 10)							
1.	1995. 24	1str., UDK: 681.5(075.8),	omatskog upravljanja kroz rešene probleme, Sombor, Somel,						
2.	1995. 23	2str., UDK: 681.5(075.8),	ljanja u prostoru stanja, Novi Sad, Fakulet tehničkih nauka,						
3.		F.Kulić, E.Levi: Design Of The Speed Controller For Sensotive Study, Artificial Intelligence in Engineering, 2000, Vol. 2							
4.	•	S.Kuzmanović, E.Levi, F.Kulić: Design of Near Optimal, WI. 120, No. 1, str. 17-34	ide Range Fuzzy Logic Controller, Fuzzy Sets and Systems,						
5.		F.Kulić, D.Popović, Z.Gorečan: Determining Topological C al Neural Network, Electric Machines and Power Systems,	hanges and Critical Load Levels of a Power System by Means 1997, Vol. 25, No. 8, str. 917- 926, ISSN 0731-356x.						
6.		D.Popović, F.Kulić, Z.Gorečan: Fast Dynamic Stability Ana Transactions on Electrical Power (ETEP), 1998, Vol. 8, No.							
7.		ć, D.Kukolj, F.Kulić: Monitoring and Assessment of Voltage Input Set, IEE ProcGener. Transm. Distrib, 1998, Vol. 14							

NEW STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Representative refferences (minimum 5, not more than 10)

- 8. Matić Dragan, Kulić Filip, Pineda-Sanchez Manuel, Kamenko Ilija: "Support vector machine classifier for diagnosis in electrical machines: Application to broken bar", Expert Systems With Applications, vol.39 br.10, str. 8681-8689, 2012.
- 9. Čongradac Velimir, Kulić Filip: "Recognition of the importance of using artificial neural networks and genetic algorithms to optimize chiller operation", Energy and Buildings, vol. 47, str. 651-658; April 2012.

10.	0. Ilić Slobodan; Vukmirović Srđan; Erdeljan Aleksandar; Kulić Filip: "Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal Science, vol.16, br., str. S215-S224, 2012										
Sι	Summary data for teacher's scientific or art and professional activity:										
Quo	otation total :	32									
Tota	al of SCI(SSCI) list papers :	12									
Cur	rent projects :	Domestic :	2	International:	0						



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

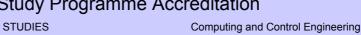


Science, arts and professional qualifications

Name and last name:			Lendak I. Imre							
Acad	emic title:					Assistant Professor				
		titution v	vhere the te	acher works fu	ıll time and	Faculty of Technical Sciences - Novi Sad				
starting date:					01.02.2005					
Scier	ntific or art f	ield:				Automatic Control and System Engineering				
Acad	emic carie	er	Year	Institution				Field		
Acad	emic title e	lection:	2012	Faculty of Te	chnical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
PhD	thesis		2011	Faculty of Te	chnical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
Magi	ster thesis		2007	Faculty of Te	chnical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
Bach	elor's thesi	S	2002	Faculty of Te	chnical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
List o	of courses b	eing he	ld by the tea	acher in the ac	credited stu	udy programme	s			
	ID	Course	e name				Study pro	gramme name, study type		
							Academic	nputing and Control Engineering, Undergraduate Studies ver Software Engineering, Undergraduate		
								Studies hnical Mechanics and Technical Design, uate Academic Studies		
1.	E232	Syster	m Modeling	and Simulation	1		(MR0) Me	uate Academic Studies asurement and Control Engineering, uate Academic Studies		
							(SE0) Sof	tware Engineering and Information Technologies, uate Academic Studies		
							(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
2.	GI303A	Distributed Systems in Geomatics			cs		(GI0) Geo Studies	0) Geodesy and Geomatics, Undergraduate Academic lies		
3.	E2312	2 Software design for SCADA systems			tems		Academic	(E20) Computing and Control Engineering, Undergraduate Academic Studies		
							(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
4.	ESI003	Electri	c power sof	tware developr	ment		Académic			
5.	ESI011	Softwa	are security	and safety in p	ower engir	neering	Academic			
6.	ESI016	Smart	Grid Progra	amming			Àcadémic			
7.	ESI017	Mobile	computing	in power syste	ems		Academic	ver Software Engineering, Undergraduate Studies		
8.	SEAU02	SCAD	A Software				Ùndergrad	tware Engineering and Information Technologies, uate Academic Studies		
							Academic			
9.	AU502	Distrib	uted Contro	ol Systems			Academic			
						Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies			
10.	S054	Computer Modelling and Simulation				(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies			
11. BMIM3D Development of integrated biomedical systems			ems	(BM0) Bio	medical Engineering, Master Academic Studies					
12. E2533 Discrete event simulation				(E20) Con Academic	nputing and Control Engineering, Master Studies					
13.	E2535			ms in Superviso	ory Control	and Data	(E20) Computing and Control Engineering, Master Academic Studies			
		Acquis	sition Syster	ms 			Engineerin	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
14.	ESI033	Advan	ced Power	Grid Communi	cation Prot	ocols	(ES0) Pov Studies	ver Software Engineering, Master Academic		

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

List	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name	Study programme name, study type					
15.	ESI037	Smart Grid security and safety	(ES0) Power Software Engineering, Master Academic Studies					
16.	ESI038	Service oriented architectures in Smart Grid	(ES0) Power Software Engineering, Master Academic Studies					
17.	SEAM03	Software Algorithms in Supervisory Control and Data Acquisition Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies					
Re	presentative	e refferences (minimum 5, not more than 10)						
1.		., Erdeljan A. & Popović D. (2011), "Algorithm for cataloguin rs and mathematics with applications, February 2011, vol 6						
2.		rić S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), "O vith hierarchical neural network", International Journal of Co						
3.		., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdel cture Systems", International Journal of Computers, Commu						
4.		ric S., Erdeljan A., Lendak I. & Capko D. (2012), "Unifying th Techniques-Serie Electrotechnique et Energetique, 2012, v	ne Common Information Model (CIM)", Revue Roumaine des vol 57 (3), pp. 301-310.					
5.		ric S., Erdeljan A., Lendak I. & Capko D. (2012), "Optimal W etworks", Journal of Applied Research and Technology, 201						
6.		., Erdeljan A., Vukmirović S. & Lendak I. (2011), "A Hybrid G nent Systems", Information Technology and Control, 2011, v	Senetic Algorithm for Partitioning of Data Model in Distribution vol 40 (4), pp. 316-322.					
7.		rić S., Erdeljan A., Lendak I. & Čapko D. (2011), "Extension cs and electrical engineering, ISSN 1392 – 1215, 2011, vol						
8.		rić S., Erdeljan A., Lendak I. & Čapko D. (2010), "A novel so & Industrial Research, December 2010, vol 69, pp. 937-94						
9.	Nedić N., workflow	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), "/ scheduling", Information technology and control, 2010, vol 3	A genetic algorithm approach for utility management system 39 (4), pp. 310-319.					
10.		A., Lendak I., Vukmirović S. & Čapko D. (2007), "Otvorena s nim vodovodnim sistemima", Vodoprivreda, 2007, ISSN 03	softverska arhitektura za modeliranje, simulaciju i upravljanje 50-0519, vol 229-230, pp. 291-302.					

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

Quotation total :	25				
Total of SCI(SSCI) list papers :	9				
Current projects :	Domestic: 1 International: 1				

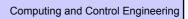
Strana 118 Datum: 18.12.2012



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

Study Programme Accreditation







Science, arts and professional qualifications

Name and last name:					Luković S. Ivan				
Academic title:					Full Professor				
Name of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad				
starting date:					18.05.1991	18.05.1991			
Scie	ntific or art f	ield:			Applied Comp	Applied Computer Science and Informatics			
Acad	lemic carie	er	Year	Institution			Field		
Acad	lemic title e	lection:	2006	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
PhD	thesis		1996	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics		
Magi	ster thesis		1993	School of Electrical Engi	ineering - Beog	rad	Applied Computer Science and Informatics		
Bach	elor's thesi	S	1990	Military-Technical Facult	ty - Zagreb		Applied Computer Science and Informatics		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	ogramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	E2I40	Databa	ase System	s		Ùndergrad	asurement and Control Engineering, uate Academic Studies		
	22110	Datab	acc cyclom				tware Engineering and Information Technologies, uate Academic Studies		
						Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies		
2.	E2l41	Inform	ation Syste	m Engineering		Academic			
		Information System Engineering				(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
3.	GI205	Information Systems and Databases				(GI0) Geo Studies			
4.	GI408A	Geospatial Databases				(GI0) Geo Studies	I0) Geodesy and Geomatics, Undergraduate Academic dies		
						(E20) Computing and Control Engineering, Undergraduate Academic Studies			
5.	RI43A	Databa	ases 1			(ES0) Power Software Engineering, Undergraduate Academic Studies			
						(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
6.	RI43B	Databa	2000 2			(E20) Computing and Control Engineering, Undergraduate Academic Studies			
0.	KI43D	Dalaba	3565 2			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
7.	0RI43B	Databa	ases 2			(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
8.	BM118E	Databa	ases			(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
9.	EE417A	Databa	ases				er, Electronic and Telecommunication g, Undergraduate Academic Studies		
10.	SE0013	Data ()rnanizatior	1			tware Engineering and Information Technologies, luate Academic Studies		
10.	3L0013	Data Organization					tware Engineering and Information Technologies - Indergraduate Academic Studies		
11.	SE0016	Databa				' '	tware Engineering and Information Technologies, luate Academic Studies		
11.	3L0010	Dalaba					tware Engineering and Information Technologies - Indergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Master Studies		
12.	E2502	Data V	Varehouse	Systems			tware Engineering and Information Technologies, ademic Studies		
						er, Electronic and Telecommunication g, Master Academic Studies			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List c	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
				(E20) Computing and Control Engineering, Master Academic Studies					
				(ES0) Power Software Engineering, Master Academic Studies					
13.	E2517	Database Management Systems		(MR0) Measurement and Control Engineering, Master Academic Studies					
				(SE0) Software Engineering and Information Technologies, Master Academic Studies					
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies					
14.	E2518	Software Based Business Process M	Modelina	(E20) Computing and Control Engineering, Master Academic Studies					
		Contraro Bassa Basiness i Tossas ii		(SE0) Software Engineering and Information Technologies, Master Academic Studies					
15.	E2530	Domain Specific Modeling and Lang	uages	(E20) Computing and Control Engineering, Master Academic Studies					
				(SE0) Software Engineering and Information Technologies, Master Academic Studies					
16.	DRNI02	Selected Topics in Advanced Softwa	re Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies					
17.	DRNI04	Selected Topics in Database Manag	ement	(E20) Computing and Control Engineering, Doctoral Academic Studies					
18.	DRNI05	Selected Topics in Software Standar	dization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies					
				(F20) Engineering Animation, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral					
19.	DRNI08	Selected Topics in Information Syste		Academic Studies					
Rep		refferences (minimum 5, not more the	,						
1.	Developn		I Aspects of Domain-	Model Based Approaches to Information System Specific Languages: Recent Developments; Chapter 17., IGI					
2.	Conferen	ce on Informatics, Herlany: Slovak So	ciety for Applied Cybe	formations in Database Design, 10. International Scientific ernetics and Informatics and Technical University of Košice - 2009, pp. 9-18, ISBN 978-80-8086-126-1. (Invited paper).					
3.	Luković I. Projects i	.: Application of Information System E n Serbia, 9. International Business Inf /ienna: Austrian Computer Society an	Development Tools an formatics Conference	d Methods - Some Experiences from Industry and Research – Symposium on Business Informatics in Central and Eastern a, 25-27 Februar, 2009, pp. 119-128, ISBN 978-3-85403-242-					
4.	Luković I Related T	: An Approach to Specification and Ge	A 2008), July 11, 2008	Systems using Form Types, 2nd Conference on Compilers, B, Braganca, Portugal, Proceedings, Polytechnic Institute of					
5.		Luković I, Govedarica M: Principi proj ovi Sad, 2004, ISBN: 86-80249-81-5,		aka, II izdanje, Univerzitet u Novom Sadu, Fakultet tehničkih					
6.	Mogin P, 350 str.	Luković I: Principi baza podataka, Un	iverzitet u Novom Sac	du, Fakultet tehničkih nauka i MP "Stylos", Novi Sad, 1996,					
7.				Check Constraint PIM Specifications, COMPUTING AND 150, 2012, Vol. 31, No. 5, pp. 1045-1079.					
8.		and Experience, John Wiley & Sons Ir		g Complex Database Schemas Using Form Types", Software: iSN: 0038-0644, DOI: 10.1002/spe.820, Vol. 37, No. 15, 2007,					
9.				gel P.: A DSL for PIM Specifications: Design and Attribute a Systems (ComSIS), ISSN 1820-0214, 2011, Vol. 8, No 2, pp.					
10.				a-Model and a Concrete DSL Syntax of IIS*Case PIM 1214, 2012, Vol. 9, No 3, pp. 1075-1103.					
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
_	ation total :		22						
		CI) list papers :	5	d International					
Curre	ent projects	:	Domestic :	1 International : 0					

LANGE STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

		and professional qualifications					
	e and last n	ame:	Marković Milan				
Acad	lemic title:		Guest Professor				
		titution where the teacher works full time a	d <u>-</u>				
	ng date: ntific or art f	ield:	Computer Scien	200			
	lemic caries		Computer Scient	Field			
	lemic title el			i leiu			
		eing held by the teacher in the accredited	study programmes				
2.00	7. 000,000 2		naay programmoo				
	ID	Course name	S	Study programme name, study type			
				E20) Computing and Control Engineering, Undergraduate cademic Studies			
			((GIO) Geodesy and Geomatics, Undergraduate Academic			
1.	E233	Internet Networks	(:	SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
			(5	SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			
			(E	E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
			(1	F00) Graphic Engineering and Design, Undergraduate			
2.	F501	WEB Design	(1)	F10) Engineering Animation, Undergraduate Academic Studies			
3.	ISIT28	Informaciona bezbednost	(:	SII) Software and Information Technologies (Inđija), Indergraduate Professional Studies			
4.	BMI95	Introduction to Computer Science	(1	(BM0) Biomedical Engineering, Undergraduate Academic Studies			
			(1	(F00) Graphic Engineering and Design, Undergraduate Academic Studies			
				MR0) Measurement and Control Engineering, Indergraduate Academic Studies			
5.	SE0001	Introduction to Programming		P00) Production Engineering, Undergraduate Academic Studies			
				SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
				(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies			
	050044	Introduction to Outhern 5		SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
6.	SE0011	Introduction to Software Engineering		SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			
				P00) Production Engineering, Undergraduate Academic Studies			
7.	SE0017	Software Development Metrodologies		SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
				SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			
c	SE0024	Software Construction and Testing	, i	SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
8.	SE0024	Software Construction and Testing		SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			
				P00) Production Engineering, Undergraduate Academic Studies			
9.	SE239A	Web programming		SE0) Software Engineering and Information Technologies, Indergraduate Academic Studies			
				SEL) Software Engineering and Information Technologies - oznica, Undergraduate Academic Studies			

TAS STUDIO REAL

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study programme name, study type						
				(E20) Computing and Control Engineering, Master Academic Studies						
10.	E2522	2 Software Standardization and Qualit	.,	(MR0) Measurement and Control Engineering, Master Academic Studies						
10.	E2322	2 Software Standardization and Qualit	у	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies						
11.	SEM009	9 Identity Management		(SE0) Software Engineering and Information Technologies, Master Academic Studies						
12.	SEM017	7 Information Security		(SE0) Software Engineering and Information Technologies, Master Academic Studies						
Rep	oresentative	ive refferences (minimum 5, not more th	an 10)							
Sur	nmary data	ta for teacher's scientific or art and profe	essional activity:							
Quot	ation total:	1:								
Total	of SCI(SS	SCI) list papers :								
Curre	ent projects	ets:	Domestic :	International :						



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Mihajlović R. Dragan			
Academic title:					Associate Professor			
Name of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad			
					24.09.1990			
	ntific or art f				Applied Comp	Applied Computer Science and Informatics		
	emic carie		Year	Institution			Field	
	emic title e	lection:	2009	Faculty of Technical Sci			Applied Computer Science and Informatics	
	thesis		1988	Faculty of Electrical Eng			Applied Computer Science and Informatics	
	elor's thesis	S	1973	Faculty of Electrical Eng		_	Applied Computer Science and Informatics	
	ster thesis		1070	Faculty of Electrical Eng			Electrical and Computer Engineering	
List o	t courses b	eing ne	ld by the tea	acher in the accredited stu	ldy programme	es I		
	ID	Course	e name			Study pro	gramme name, study type	
1.	AU54	Geoinf	formation S	vstems		Academic		
	,,,,,,					Studies	desy and Geomatics, Undergraduate Academic	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
2.	E243	Humar	n Computer	Interaction		Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
3.	GI029	Utility Information Systems and their Application			ation	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
4.	GI205	Inform	ation Syste	ms and Databases		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
5.	RI43A	Databa	ases 1			(ES0) Power Software Engineering, Undergraduate Academic Studies		
						(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
0	DIASD	Databa	2000			(E20) Computing and Control Engineering, Undergraduate Academic Studies		
6.	RI43B	Dalaba	ases z				tware Engineering and Information Technologies, uate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
7.	RI4A	Comp	uter Graphio	CS		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
						Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznića, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
8.	0RI43B	Databa	ases 2			Académic		
9.	BM118E	Databa	ases			(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
10.	E0243	Humai	n-Computer	Interaction		Academic		
	20240	Tama	. computor			(F10) Engineering Animation, Undergraduate Academic Studies		
11.	EE417A	Databases				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		

LANGE STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
				(E20) Computing and Control Engineering, Master Academic Studies					
12.	E2505	Multimedia Systems		(ES0) Power Software Engineering, Master Academic Studies					
		•		(F20) Engineering Animation, Master Academic Studies					
				(SE0) Software Engineering and Information Technologies Master Academic Studies					
13.	E2516	Virtual Deality Cyctems		(E20) Computing and Control Engineering, Master Academic Studies					
13.	E2310	Virtual Reality Systems		(SE0) Software Engineering and Information Technologies Master Academic Studies					
14.	FDS151	Selected Chapters in Multimedia		(F00) Graphic Engineering and Design, Doctoral Academic Studies					
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Mihajlovi	ć D.,Informacioni sistemi i projektovar	ije baza podataka, FT	N Novi Sad, 1998					
2.	Mihajlovi	ć D, Obradović D, Jedan algoritam saž	imanja srpskohrvatsk	ih reči, Informatika br 4, pp45-47, 1982					
3.	Mihajlovi	ć D, Obradović D, An evalution of text	ual documents indexir	ng methods, Yujor, 1992, pp107-112.					
4.	Mihajlovi	ć D i ostali, Softversko rešenje za farn	naceutski informacioni	i sistem, Diskobolos 97.					
5.	Mihajlovi	ć D, Kecman Ž, Farmaceutski informa	cioni sistem, I kongre	s farmaceuta Jugoslavije, Vrnjačka Banja, 1994					
6.	Mihajlovi	ć D, Izbor parova leksičkih jedinica iz	poznatog rečnika za a	automatizovano postavljanje relacija u tezaurusu					
7.	Mihajlovi	ć D, Odredjivanje vrsta reči iz srpskoh	rvatskog jezika prime	nom računara, Informatica, br 1, pp52-54, 1988					
8.		, Obradović D, Mihajlović D, Standard Standardizacija i kvalitet u informacior		rojektovanja informacionih sistema software-inženjerski ograd 1995.					
9.		ć D, Nićin V, Prilog razvoju automastk Novi Sad	e obrade informacija ι	u INDOK-delatnosti u organima uprave, Dani informatike 80,					
10.	10. Obradović D, Perišić B, Mihajlović D, Konjović Z, Stanje i trendovi u projektovanju informacionih sistema, IPME, Beograd, 1992								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total:								
	,	CI) list papers :		1					
Curre	Current projects : Domestic : International :								

NESTAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Milanović N. Nikola				
Academic title:					Assistant Professor				
	Name of the institution where the teacher works full time and			-					
starting date:									
Scier	ntific or art f	ield:			Applied Comp	outer Science	ce and Informatics		
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title el	lection:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics		
PhD	thesis		2003				Applied Computer Science and Informatics		
	elor's thesis	S	1995				Applied Computer Science and Informatics		
	ster thesis		-				Applied Computer Science and Informatics		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	S			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	F209	Multim	edia			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies		
2.	ISIT21	Interne	et mreže			Undergrad	vare and Information Technologies (Inđija), luate Professional Studies		
3.	ISIT2D	Web d	esign				vare and Information Technologies (Inđija), luate Professional Studies		
							tware Engineering and Information Technologies, luate Academic Studies		
4.	SE0008	Algorit	hms and Da	ata structures		(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
							(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
5.	SE0016	Databa	2000			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
5.	320010	Dalaba	3565			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies			
6.	SES102	Neco	L Data Bas	20		(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
0.	3E3102	NUSQI	L Dala Basi	=5		(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies			
7	SES304	Advas	and Wah T	a abrada gia a			tware Engineering and Information Technologies, luate Academic Studies		
7.	SES201	Auvan	cea web 1	echnologies		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies		
8.	SES302	High T	echnology.	Management		, ,	tware Engineering and Information Technologies, luate Academic Studies		
0.	3E3302	rigii i	echhology	wanagement			tware Engineering and Information Technologies - Indergraduate Academic Studies		
						(E20) Cor Academic	nputing and Control Engineering, Master Studies		
9.	E2506 Advanced Internet Infrastructure				(SE0) Software Engineering and Information Technologies Master Academic Studies				
					er, Electronic and Telecommunication ng, Master Academic Studies				
						(E20) Cor Academic	nputing and Control Engineering, Master Studies		
10.	E2513	Semar	ntic Web			(PM0) Pro	oduction Engineering, Master Academic Studies		
							tware Engineering and Information Technologies, ademic Studies		

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study programme name, study type						
				(E20) Computing and Control Engineering, Master Academic Studies						
				(MR0) Measurement and Control Engineering, Master Academic Studies						
11.	E2519	Domain-Specific Languages		(PM0) Production	on Engineering, Master Acad	lemic Studies				
				(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,				
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies						
10	F2F2C	Compiles Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies							
12.	E2526	Service Oriented Architectures		(SE0) Software Engineering and Information Technologies, Master Academic Studies						
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.	N. Milano	ovic, M. Malek. Current Solutions for V	Veb Service Composit	ion. IEEE Internet	Computing, 8(6):51-59, 200	4. (SCI 11/86)				
2.		ovic, M. Malek, A. Davidson, V. Milutin . (SCI 16/86)	ovic. Routing and Sec	urity in Mobile Ad	Hoc Networks. IEEE Comp	uter, 37(2):61-				
3.		ovic, M. Malek. Search Strategies for A n, 3(2):1-32, 2006. (SCI 37/86)	Automatic Web Service	e Composition. In	ternational Journal of Web S	ervices				
4.	N. Miland 4(1):56-6	ovic, B. Milic. Automatic Generation of 9 , 2011	Service Availability M	odels. IEEE Trans	sactions of Service Computir	ng, 2010.				
5.	P. Ibach, N. Milanovic, J. Richling, V. Stantchev, A. Wiesner, Malek M. CERO: CE Robots Community. IEE Proceedings Software, Special Issue on Embedded Systems, 152(5):210-214, 2005. (SCI 71/86)									
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
	Quotation total: 0									
	•	CI) list papers :	0	•						
Curre	Current projects : Domestic : 0 International : 0									



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Milosavljević R. Gordana				
	Academic title:				Assistant Professor				
		titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
1	ng date:			Horko fall tillio alla	01.12.1995				
Scier	ntific or art f	ield:			Applied Computer Science and Informatics				
Academic carieer Year Institution						Field			
Acad	lemic title e	lection:	2010	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
PhD	thesis		2010				Computer Science		
Magi	ster thesis		2001	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
Bach	elor's thesi	S	1995	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	ogramme name, study type		
						Academic	nputing and Control Engineering, Undergraduate Studies tware Engineering and Information Technologies,		
1.	E242	Softwa	are Specific	ation and Modeling		Undergrad	uate Academic Studies		
						Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies		
2.	F209	Multim	edia			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies		
						Academic			
3.	RI53	Business Information Systems				Undergrad	tware Engineering and Information Technologies, luate Academic Studies		
							tware Engineering and Information Technologies - indergraduate Academic Studies		
4.	ISIT08	Object oriented programming fundamentals					vare and Information Technologies (Inđija), luate Professional Studies		
5.	ISIT12	Osnov	e informaci	onih sistema		Ùndergrad	l) Software and Information Technologies (Inđija), lergraduate Professional Studies		
6.	ISIT22	Osnov	e baza pod	ataka			SII) Software and Information Technologies (Inđija), Indergraduate Professional Studies		
7.	ISIT26	Upravl	janje projek	ctima		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
8.	ISIT27	Osnov	e softversk	ih arhitektura		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies			
9.	ISIT35	Poslov	na informa	tika			II) Software and Information Technologies (Inđija), dergraduate Professional Studies		
10.	ISIT37	Konfig	urisanje i a	dministracija baza podatal	ka		vare and Information Technologies (Inđija), uate Professional Studies		
11.	SE0016	Databa	ases			(SE0) Soft Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
	020010	Datable					tware Engineering and Information Technologies - indergraduate Academic Studies		
						Studies	duction Engineering, Undergraduate Academic		
12.	SE0017	Softwa	are Develop	ment Metrodologies		Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
						Loznića, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
13.	SES202	Model	Driven Soff	tware Development		Ùndergrad	tware Engineering and Information Technologies, uate Academic Studies		
				a. o Dovolopinoni		Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
14.	SES204	Advan	ced Progra	mming Tecnics		Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
		Advanced Programming Tecnics					tware Engineering and Information Technologies - indergraduate Academic Studies		

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

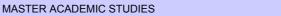


List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study programi	me name, study type				
15.	E2508	Agile Software Development Method	dology	(E20) Computin Academic Studie	g and Control Engineering, es	Master			
13.	L2300	Agile Software Development Method	lology	(SE0) Software Master Academi	Engineering and Information c Studies	n Technologies,			
16.	DRNI08	Selected Topics in Information Syste	ems	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral			
17.	DRNI12	Selected Topics in Contemporary So	oftware Development	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral			
		Wethous		(F20) Engineeri	ng Animation, Doctoral Acad	demic Studies			
Rep	resentative	refferences (minimum 5, not more th	an 10)						
1.		avljević, M. Vidaković, S. Komazec, G ate Form Representations. Principles				a Models Using			
2.	B. Milosavljević, M. Vidaković, S. Komazec, G. Milosavljević: User Interface Code Generation for Data-Intensive Applications with EJB-Based Data Models, Software Engineering Research and Practice (SERP"03), Las Vegas, USA, 2003								
3.	G. Milosavljević, B. Perišić: Really Rapid Prototyping of Large-Scale Business Information Systems, IEEE International Workshop on Rapid System Prototyping, San Diego, USA, 2003								
4.	Milosavljević G., Ivanović D., Milosavljević B., Surla D.: Automated Construction of the User Interface for a CERIF-Compliant Research Management System, The Electronic Library, 2011, Vol. 29, No 5, pp. 565-588, ISSN 0264-0473								
5.		, Milosavljević G., Dejanović I., Milosa r Science and Information Systems (C				Applications,			
6.		D., Milosavljević G., Milosavljević B., S Format, Program: Electronic Library							
7.	Dejanovio Database	ć I., Milosavljević G., Tumbas Živanov Applications, Computer Science and	M., Perišić B.: A Don Information Systems	nain-Specific Land (ComSIS), 2010,	guage for Defining Static Str Vol. 7, No 3, pp. 409-440, IS	ucture of SSN 1820-0214			
8.		č I., Perišić B., Milosavljević G., Striče nal Workshop on Model-Based Softw				artifacts. In 3rd			
9.	Symposit	ević G., Dejanović I., Perišić B.: Read um@MODELS 2011: Software Modeli g.de/documents/olnse-2-2011-EduSyr	ing in Education, page						
10.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain- Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24								
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total :		0						
	•	CI) list papers :	0	-	T	,			
Curre	ent projects	:	Domestic :	0	International :	0			



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Milosavljević P. Branko			
	emic title:				Associate Professor			
		titution v	vhere the te	acher works full time and	- " (
	ng date:				01.10.1998			
Scier	ntific or art f	ield:			Applied Computer Science and Informatics			
Academic carieer Year Institution				Field				
Acad	emic title e	lection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
PhD	thesis		2003	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
Magi	ster thesis		1999	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
Bach	elor's thesi	s	1997	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
List o	f courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	gramme name, study type	
						Academic		
1.	E2E40	XML a	ind WEB Se	ervices		Undergrad	asurement and Control Engineering, uate Academic Studies	
						Ùndergrad	tware Engineering and Information Technologies, uate Academic Studies	
						Loznića, U	tware Engineering and Information Technologies - ndergraduate Academic Studies	
		E41 E-Business Systems Security				(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
	E2E41						asurement and Control Engineering, uate Academic Studies	
2.							tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
3.	F209	Multim	nedia			(F00) Grap Academic	phic Engineering and Design, Undergraduate Studies	
4.	F214I2	Raster	Graphics			(F00) Graphic Engineering and Design, Undergraduate Academic Studies		
5.	GI100	Comp	uter Practic	um		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
6.	RI41	Interne	et Software	Architectures		(E20) Computing and Control Engineering, Undergraduate Academic Studies		
7	CE144	Intorna	ot Coffware	Architectures			tware Engineering and Information Technologies, uate Academic Studies	
7.	SEI41	шет	el Sollware	Architectures			tware Engineering and Information Technologies - ndergraduate Academic Studies	
8.	ISIT03	Introdu	uction to Pro	ogramming			vare and Information Technologies (Inđija), uate Professional Studies	
9.	ISIT08	Object	oriented pr	ogramming fundamentals			vare and Information Technologies (Inđija), uate Professional Studies	
10.	ISIT22	Osnov	e baza pod	ataka		, ,	vare and Information Technologies (Inđija), uate Professional Studies	
11.	ISIT28	Inform	aciona bezl	pednost			vare and Information Technologies (Inđija), uate Professional Studies	
12.	ISIT29	XML T	echnologie	s		Ùndergrad	vare and Information Technologies (Inđija), uate Professional Studies	
13.	BMI95	Introdu	uction to Co	mputer Science		(BM0) Biomedical Engineering, Undergraduate Academic Studies		
14.	EIWDS	WDS Web-based Measurement and Data Acquisit		ition Systems	Undergrad	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
					- ,		er, Electronic and Telecommunication g, Undergraduate Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	ist of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
			(F00) Graphic Engineering and Design, Undergraduate Academic Studies (MR0) Measurement and Control Engineering, Undergraduate Academic Studies						
15.	SE0001	Introduction to Programming	(P00) Production Engineering, Undergraduate Academic Studies						
			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies						
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies						
			(E20) Computing and Control Engineering, Master Academic Studies						
16.	E2506	Advanced Internet Infrastructure	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies						
17.	F402	Electronic Publishing	(F00) Graphic Engineering and Design, Master Academic Studies						
			(E20) Computing and Control Engineering, Master Academic Studies						
18.	E2521	Business Process Management	(MR0) Measurement and Control Engineering, Master Academic Studies						
10.		Dusiness i rocess Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies						
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies						
19.	E2526	Service Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies						
			(SE0) Software Engineering and Information Technologies, Master Academic Studies						
20.	DE417	Web-based Measurement Systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies						
21.	DRNI02	Selected Topics in Advanced Software Architecture	(E20) Computing and Control Engineering, Doctoral Academic Studies						
22.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies						
23.	DRNI06	Selected Topics in Digital Archives	(E20) Computing and Control Engineering, Doctoral Academic Studies						
24.	FDS151	Selected Chapters in Multimedia	(F00) Graphic Engineering and Design, Doctoral Academic Studies						
25.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies						
26.	FDS224	Selected Chapters in Programming	(F00) Graphic Engineering and Design, Doctoral Academic Studies						
27.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies						
Rep	resentative	refferences (minimum 5, not more than 10)							
1.	Software	Engineering, Miami, FL, 2004.	etrieval. In IEEE 6th International Symposium on Multimedia						
2.		lilosavljević, Milan Vidaković, Srđan Komazec, and Gordana Applications with EJB-Based Data Models. In Software Eng	a Milosavljević. User Interface Code Generation for Data- gineering Research and Practice (SERP"03), Las Vegas, NV						
3.		lilosavljević and Zora Konjović. Design of an XML-Based Ex ia Software Engineering (MSE2002), Newport Beach, CA, 2							
4.		, B. Milosavljević, Z. Konjović. Extensible Access Control M tography ICETE-SECRYPT"07, Barcelona, Spain, 2007.	odel for XML Document Collections, Intl. Conf. on Security						
5.	James Po		code generation for database-oriented web applications. In Technology: Theory, Application, Implementation, pages 89-						

RESTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	presentative refferences (minimum 5, not more th	an 10)								
6.	Danijela Tešendić, Branko Milosavljević, and E Library, 27(1):162-186, 2009. ISSN: 0264-0473			for city and special libraries.	The Electronic					
7.	Jelena Radjenović, Branko Milosavljević, and Dušan Surla. Modelling and implementation of catalogue cards using FreeMarker. Program: electronic library and information systems, 43(1):62-76, 2009. ISSN: 0033-0337, DOI: 10.1108/00330330910934110.									
8.	Milan Vidaković, Branko Milosavljević, Zora Konjović, and Goran Sladić. Extensible Java EE-based agent framework and its application on distributed library catalogues. Computer Science and Information Systems (ComSIS), 6(2):1-28, 2009. ISSN: 1820-0214, DOI: 10.2298/csis0902001V.									
9.	Aleksandar Kovačević, Branko Milosavljević, Zora Konjović, and Milan Vidaković. Adaptive content-based music retrieval system. Multimedia Tools and Applications, 47(3):525-544, 2010. ISSN: 1380-7501, DOI: 10.1007/s11042-009-0336-2.									
10.	0. Bojana Dimić, Branko Milosavljević, and Dušan Surla. XML schema for UNIMARC and MARC 21. The Electronic Library, 28(2):245-262, 2010. ISSN: 0264-0473, DOI: 10.1108/02640471011033611.									
Su	mmary data for teacher's scientific or art and profe	essional activity:								
Quo	ration total :	0								
Tota	of SCI(SSCI) list papers :	15								
Curr	ent projects :	Domestic :	2	International :	1					



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

Study Programme Accreditation





Science, arts and professional qualifications

Nam	Name and last name:			Nenadić M. Goran				
Acad	lemic title:				Guest Professor			
	e of the inst	titution v	vhere the te	eacher works full time and	-			
	ntific or art f	ield:			Applied Comr	outer Scienc	ce and Informatics	
	lemic carie		Year	Institution	Applied Computer Science and Informatics Field			
Acad	lemic title e	lection:	2012				Applied Computer Science and Informatics	
PhD	thesis		2003				Mathematical Sciences	
Magi	ster thesis		1997				Mathematical Sciences	
Bach	elor's thesi	S	1993				Mathematical Sciences	
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
						Academic		
1.	E2K40A	Soft C	omputing				easurement and Control Engineering, luate Academic Studies	
'-	EZN4UA	0011 0	omputing				tware Engineering and Information Technologies, luate Academic Studies	
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
2.	ISIT2D	Web d	esign				vare and Information Technologies (Inđija), luate Professional Studies	
						(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies	
						(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
3.	SE0001	Introdu	Introduction to Programming			(P00) Prod Studies	duction Engineering, Undergraduate Academic	
							tware Engineering and Information Technologies, luate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
4.	SE0014	Compi	uter organis	ation		Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
			ator organic				tware Engineering and Information Technologies - Indergraduate Academic Studies	
5.	SE0016	Databa	3925				tware Engineering and Information Technologies, luate Academic Studies	
J.	020010	Databa					tware Engineering and Information Technologies - Indergraduate Academic Studies	
6.	SE0024	Softwa	are Constru	ction and Testing		Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
				outer and recurry		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
7.	SE0031	Onera	ting System	ns.			tware Engineering and Information Technologies, luate Academic Studies	
,.	020001	Орста	ung Oysten			(SEL) Software Engineering and Information Technologie Loznica, Undergraduate Academic Studies		
						(P00) Prod Studies	duction Engineering, Undergraduate Academic	
8.	SE239A	Web p	rogrammin	g			tware Engineering and Information Technologies, luate Academic Studies	
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
9.	SES40	SES40 Software patterns and components					tware Engineering and Information Technologies, luate Academic Studies	
0.	32040	Soliwe	5 pattorilo	and dompondino		(SEL) Software Engineering and Information Technologi Loznica, Undergraduate Academic Studies		

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

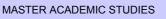


List	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programm	me name, study type				
40	F2502	Data Mining and Data Analysis Cyat		(E20) Computin Academic Studie	g and Control Engineering, I es	Master			
10.	E2503	Data Mining and Data Analysis Syst	ems	(SE0) Software Engineering and Information Technologies Master Academic Studies					
				(E20) Computing and Control Engineering, Maste Academic Studies					
11.	E2506	Advanced Internet Infrastructure		(SE0) Software Master Academi	Engineering and Informatior c Studies	Technologies,			
				, ,	ectronic and Telecommunica ster Academic Studies	tion			
10	E2523	Cocial Naturation	(E20) Computin Academic Studie	g and Control Engineering, f es	Master				
12.	E2523	Social Networks	(SE0) Software Master Academi	Engineering and Informatior c Studies	Technologies,				
40	E2524	Tout Mining	(E20) Computin Academic Studie	g and Control Engineering, I es	Master				
13.	E2524	Text Mining	(SE0) Software Engineering and Information Technologies Master Academic Studies						
14.	E2527	Pusinose Intelligence	(E20) Computin Academic Studie	g and Control Engineering, ! es	Master				
14.	E2527	Business Intelligence		(SE0) Software Master Academi	Engineering and Informatior c Studies	Technologies,			
15.	SEM013	E-government technologies		(SE0) Software Master Academi	Engineering and Informatior c Studies	Technologies,			
Rep	presentative	e refferences (minimum 5, not more th	an 10)						
1.		, Sarafraz, F., Keane, J., Nenadic, G. antic Rules, J. of American Medical In				tern Matching			
2.		M., Nenadic, G., Bergman, C.: LINNAE natics 11:85, 2010	EUS: A Species Name	Identification Sys	tem for Biomedical Literatur	e, BMC			
3.		Spasic, I., Keane, J., Nenadic, G.: A es, J. of American Medical Informatics			of a Disease Status from Cli	nical Discharge			
4.		Keane, J., Bergman, C., Nenadic, G. al Informatics, Vol. 42(5), pp. 887-894		rotein Mentions: t	he Case of Transcription Fa	ctors, Journal of			
5.	Yang, H. BMC Bio	Nenadic, G., Keane, J.: Identification informatics 2008, 9(Suppl 3):S11	of Transcription Facto	or Contexts in Lite	rature using Machine Learni	ng Approaches,			
6.		Nenadic, G., Stapley, B.: Mining Protenatics 2005, 6(Suppl 1):S22		Using Term-base	ed Support Vector Machines,	ВМС			
7.		nmer, M., Nenadic, G.: Term Identifica . 512-526	tion in the Biomedical	Literature, Journa	al of Biomedical Informatics,	Vol. 37(6),			
8.	Nenadic,	G., Spasic, I., Ananiadou, S.: Termino	ology-driven Mining of	Biomedical Litera	ture, Bioinformatics 19:8, 20	03, pp. 938-943			
9.		G., Mima, H., Spasic, I., Ananiadou, Sine, Int. J. of Medical Informatics, Vol.			ıre Mining and Knowledge A	cquisition in			
Sur	mmary data	for teacher's scientific or art and profe	essional activity:						
Quot	tation total:								
Tota	of SCI(SS	CI) list papers :							
Curre	ent projects	:	Domestic :		International:				



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Acade		Name and last name: Ninkov Đ.					Toša		
1	emic title:				Full Professor	or			
		itution w	here the te	acher works full time and	Faculty of Ted	echnical Sciences - Novi Sad			
	ig date:				15.02.1994				
	tific or art fi				Geodesy				
	Academic carieer Year Institution						Field		
	emic title el	ection:	2002	Faculty of Technical Science		ad	Geodesy		
PhD th			1982	Faculty of Civil Engineer			Geodesy		
— <u> </u>	ter thesis		1979	Faculty of Civil Engineer			Geodesy		
	elor's thesis	_	1972	Faculty of Civil Engineer			Geodesy		
List of	courses b	eing hei	d by the tea	acher in the accredited stu	idy programme	es .			
	ID	Course	e name			Study pro	gramme name, study type		
1.	GI019	Bathyn	netry			(GI0) Geo	desy and Geomatics, Undergraduate Academic		
2.	GI025B	Geode	tic Metrolog	ЭУ		(GI0) Geo	desy and Geomatics, Undergraduate Academic		
3.	GI029	Utility I	nformation	Systems and their Applica	ation	(GI0) Geo	desy and Geomatics, Undergraduate Academic		
4.	GI307A	Engine	ering Geod	lesy		(GI0) Geo	desy and Geomatics, Undergraduate Academic		
5.	GI402	Engine	ering Geod	desy 2		Studies	desy and Geomatics, Undergraduate Academic		
6.	GI505	Advano Monito		ques in Geodetic Design a	and	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies			
7.	GI009	Introduction to deformation measurement and analysi			nd analysis	(GI0) Geo	desy and Geomatics, Undergraduate Academic		
8.	GH507	Engineering Geodesy				(G00) Civil	Engineering, Master Academic Studies		
9.	GI403	Methods for Precise Geodetic Measurements and Data Processing			ts and Data	(GI0) Geo	desy and Geomatics, Master Academic Studies		
10.	GI514	Engineering Geodesy 3				(GI0) Geo	desy and Geomatics, Master Academic Studies		
11.	GI518	Geode	sy in City F	Planning		(GI0) Geo	desy and Geomatics, Master Academic Studies		
12.	GI601	Geody	namics			(GI0) Geo	desy and Geomatics, Master Academic Studies		
13.	URZP65	Geode moven		s for the determination of o	geodynamic	(ZP1) Disaster Risk Management and Fire Safety, Master Academic Studies			
14.	GS005	Conter		cording methods of energy	losses of	(G10) Energy Efficiency in Buildings, Specialised Academic Studies			
15.	GI516	Deform	nation analy	sis and measurements		(GI0) Geodesy and Geomatics, Master Academic Studies			
16.	GI531	Applica	ation of GN	SS systems		(GI0) Geodesy and Geomatics, Master Academic Studies			
17.	GI540	Valuati	ion of real e	estate		(GI0) Geo	desy and Geomatics, Master Academic Studies		
18.	GIAU02	Positio	n Based Se	ervices		(E20) Computing and Control Engineering, Master Academic Studies			
19.	SDGI02	Selecte	ed topics in	engineering geodesy		(GI0) Geo	desy and Geomatics, Specialised Academic		
20.	SDGI06	Selecte	ed Chapter	s in Real Estate Cadastre		(GI0) Geo	desy and Geomatics, Specialised Academic		
21.	SDGI10	Selecte	ed Chapter	s in Landscape Arrangem	ent	(GI0) Geo	desy and Geomatics, Specialised Academic		
22.	SDGI11	Selecte analys		deformation measuremer	nts and	(GI0) Geo	desy and Geomatics, Specialised Academic		
23.	SDGI14	Selecte optimiz		geodetic networks and th	eir	(GI0) Geo	desy and Geomatics, Specialised Academic		
24.	SDGI5D	Selecte	ed Chapter	s in the Mass Appraisal of	Real Estate	(GI0) Geodesy and Geomatics, Specialised Academic Studies			
25.	SDGI6A	Selecte	ed Chapter	s in Appraisal		(GI0) Geodesy and Geomatics, Specialised Academic Studies			
26.	DGI002	Selecte	ed Chapter	s in Engineering Geodesy		(GI0) Geo	desy and Geomatics, Doctoral Academic Studies		

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UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type				
27.	DGI006	Selected Chapters in Real Estate Ca	adastre	(GI0) Geodesy and Geomatics, Doctoral Academic Studies					
28.	DGI009	Selected Chapters in GNSS System	S	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
29.	DGI010	Selected Chapters in Landscape Arr	angement	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
30.	DGI011	Selected Chapters in Deformation A Measurements	,	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
31.	DGI014	Selected Chapters in Geodesic Netv Optimization	vorks and Their	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
32.	DGI019	Selected Chapters in Municipal Infor	mation Systems	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
33.	DGI012	Selected topics in integrated system	s of surveying	(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
34.	DGI015	Selected topics in geophysics		(GI0) Geodesy	and Geomatics, Doctoral Ac	ademic Studies			
Rep	presentative	e refferences (minimum 5, not more th	an 10)						
1.	Ninkov, 7	Г. (1988): "Optimizacija projektovanja	geodetskih mreža" Na	učna knjiga, Grad	ljevinski fakultet, Beograd 19	989			
2.	Ninkov, T. (1982): "A new method of land Surveying networks optimization". Meating of Study Eroup 5 B. Survey Control Networks; Alborg, edited by K. Borre i W.M. Welsch Rep 7 Schriftenreiche 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								
5.	Metadat	ica Miro, Boskovic Dubravka, Petrova a Catalogues in Spatial Information S FSKI LIST, (2010), vol. 64 br. 4, str. 31	ystems (Review)						
6.		Bulatović, Toša Ninkov, Zoran Sušić: ki list, (2009), br 1, str.13-29, (IF 2009		sortium Web Serv	rices Complex Distribution S	ystems,			
7.		Nedeljković Ostojić, Miro Govedarica, ki list:glasilo Hrvatskoga geodetskog o				Scanners			
8.		ć V., Ninkov T., Malenković V., Vulić N tehnologies education management, 2				ures, TTEM.			
9.		t informacionog sistema postojeće kar GPS merenja, satelitski snimak sisten				ini zemlje			
10.	- GIS projekat Nafftnon i nasnon distributivnon sistema OGPC-a (Oatar General Petroleum Corporation)1009-2000 Šef projekta								
Sur	mmary data	for teacher's scientific or art and profe	essional activity:						
Quot	tation total:		86						
Tota	of SCI(SS	CI) list papers :	5						
Curre	Current projects : Domestic : 3 International : 2								



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

Study Programme Accreditation





Science, arts and professional qualifications

Nam	Name and last name:				Obradović M. Ratko			
Acad	lemic title:				Full Professor	r		
		itution v	vhere the te	eacher works full time and		chnical Scie	nces - Novi Sad	
	ng date:				02.09.1993			
	ntific or art f				Computer Graphics			
	Academic carieer Year Institution						Field	
	Academic title election: 2012 Faculty of Technical Sc					ad	Computer Graphics	
	thesis		2000	Faculty of Sciences - No			Computer Graphics	
Magi	ster thesis		1997	Faculty of Sciences - No	ovi Sad		Computer Graphics	
Bach	elor's thesi	5	1993	Faculty of Technical Sci	ences - Novi Sa	ad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication	
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	IA020	Advan	ced Display	/ Technologies		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
						Undergrad	chanization and Construction Engineering, luate Academic Studies	
2.	M108	Engineering Graphic Communications				Academic		
	WITOO					(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
						(P00) Production Engineering, Undergraduate Academic Studies		
3.	S012	Descri	ntive Geom	netry and Engineering Dra	wina	(S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
Ŭ.	0012	Descriptive Geometry and Engineering Dra			wing		tal Traffic and Telecommunications, luate Academic Studies	
4.	IA006	Spatia	l Shape De	sign		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
5.	IA009	3D Mo	deling			(F10) Engineering Animation, Undergraduate Academic Studies		
6.	IA014	Advan	ced Engine	ering Animation		(F10) Engineering Animation, Undergraduate Academic Studies		
7.	IGA013	Chara	cter Animat	ion		(F10) Engineering Animation, Undergraduate Academic Studies		
8.	IGA055	Specia	al Visual Eff	ects		(F10) Engineering Animation, Undergraduate Academic Studies		
9.	IGB034	Video	in Enginee	ring Animation		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
10.	IGB340	Funda	mentals of	Engineering Animation		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
11.	ZC007	Engine	eering Grap	hic Communications		(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
12.	IA018	Comp	uter Geome	etry		(F20) Eng	ineering Animation, Master Academic Studies	
13.	AD0010	Advan Archite		ion and Video Post Techn	iques in		ital Techniques, Design and Production in re and Urban Planning, Master Academic Studies	
14.	E2528	Comp	iter game (development		(E20) Con Academic	nputing and Control Engineering, Master Studies	
14.	L2320	Сопр	uter yanne (acvelopine III		(SE0) Software Engineering and Information Technologies Master Academic Studies		
15.	IA005	History	of Animat	on		(F20) Eng	ineering Animation, Master Academic Studies	
16.	AIDO8						ineering Animation, Doctoral Academic Studies	
Rep	Representative refferences (minimum 5, not more than 10)							
1.							ystem for femoral tunnel position determination 991	
	based on the X - ray, HealthMED, 2011, Vol. 5, No 4, pp. 894-900, ISSN 1840-2991							



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

Study Programme Accreditation



Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)								
2.	Milojević Z., Navalušić S., Milankov M., Obrado generation, HealthMED, 2011, Vol. 5, No 5, pp			ology for 3D femur approxim	ate model				
3.	Bojić S., Golub M., Müller J., Obradović R., Martinov M.: Convective drying of naked seeded oil pumpkin seeds (Cucurbita pepo L.) in a medium scale batch dryer with different modes of air circulation., Zeitschrift für Arznei- und Gewürzpflanzen, 2012, Vol. 17, No 3, pp. 108-115, ISSN 1431-9292								
4.	Obradović R., Popkonstantinović B., Beljin B.: Algorithm for Approximation Transitional Developable Surfaces Betweeen two Polygons, rad je u štampi, Technics Technologies Education Management / TTEM, 2012, Vol. 7, No 4, ISSN 1840-1503								
5.	Obradović R., Petter O., Vidaković M., Popkonstantinović B., Popović B., Milojević Z.: Using Contemporary 3D Web Technologies in the Process of CAD Model Design (prihvaćen za objavljivanje u 2013), Technics Technologies Education Management, 2013, Vol. 8, No 1, 2/3, ISSN 1840-1503								
6.	Obradović R., Vujanović M., Popkonstantinović B., Šiđanin P., Beljin B., Kekeljević I.: Fine Arts Subjects at Computer Graphics Studies at the Faculty of Technical Sciences in Novi Sad, rad je u štampi, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 1, ISSN 1840-1503								
7.	Obradović R., Obradović M., Mišić S., Popkonstantinović B., Petrović M., Malešević B.: Investigation of Concave Cupolae Based Polyhedral Structures and Their Potential Application in Architecture, rad je u štampi, Technics Technologies Education Management / TTEM, 2013, Vol. 8, No 3, ISSN 1840-1503								
8.	Milojević Z., Navalušić S., Obradović R., Milanl Femur and Screw Built into Human Knee, Acad ISSN 1583-7904								
9.	Obradović R.: The Plane Section of the Surface 2005, Vol. 3, No 2, pp. 235-242, ISSN 0354-46				ngineering,				
10.	Obradović R., Milojević Z.: Plane section of co Civil Engineering, 2005, Vol. 2, No 3, pp. 195-2	,	nputer geometry,	Facta universitatis - series: A	Architecture and				
Summary data for teacher's scientific or art and professional activity:									
Quo	tation total :	50							
Tota	Total of SCI(SSCI) list papers: 7								
Curr	Current projects : Domestic : 0 International : 1								



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

Study Programme Accreditation





Science, arts and professional qualifications

Nam	Name and last name:				Obradović J. Đorđe			
Acad	lemic title:				Assistant Professor			
		titution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad 01.07.1998			
	ng date: ntific or art f	iold:			Applied Computer Science and Informatics			
	lemic caries		Year	Institution	Applied Colli	Field		
Academic title election: 2011 Faculty of Technical Science			ences - Novi S	ad	Applied Computer Science and Informatics			
-	thesis	COLIOI1.	2011	r dodity or reormical con		20	Applied Computer Science and Informatics	
	ster thesis		2003	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Science	
─ ─	elor's thesis	 S	1997	Faculty of Technical Sci			Applied Computer Science and Informatics	
List	of courses b	eing he	ld by the tea	acher in the accredited stu				
	ID	Course	e name			Study pro	gramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
1.	E236A	Comp	utational Int	elligence Fundamentals		(SE0) Soft Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
2.	E2K40A	Soft Computing					asurement and Control Engineering, uate Academic Studies	
2.		3011 0	con company			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
3.	ISIT26	Upravljanje projektima					vare and Information Technologies (Inđija), uate Professional Studies	
4.	ISIT30	Busine	ess process	management systems		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
5.	ISIT41	eGove	ernment tech	nnologies and systems		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
6.	SE0006	Ohiect	oriented or	ogramming 1			tware Engineering and Information Technologies, uate Academic Studies	
0.	OLOGOO	ОБЈССК	. Offerfied pr	ogramming 1		(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
7.	SE0013	Data (Organization				tware Engineering and Information Technologies, uate Academic Studies	
	020010	Dala	garnzauoi	•	_		tware Engineering and Information Technologies - ndergraduate Academic Studies	
						Studies	duction Engineering, Undergraduate Academic	
8.	SE239A	Web p	rogrammino				tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						Academic		
9.	E2511	Fuzzv	Systems		(ES0) I Studies		ver Software Engineering, Master Academic	
9.	L2011	i uzzy	Cystollis				tware Engineering and Information Technologies, ademic Studies	
							er, Electronic and Telecommunication g, Master Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List of courses being held by the teacher in the accredited study programmes				
	ID	Course name		Study programme name, study type
10.	E2512			(E20) Computing and Control Engineering, Master Academic Studies
		Neural Networks		(SE0) Software Engineering and Information Technologies, Master Academic Studies
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies
11.	EP002	EBusiness technologies and systems		(I20) Engineering Management, Specialised Professional Studies
	EF002			(IB0) Engineering Management - MBA, Specialised Professional Studies
12.	E2536	Mobile Application Development		(E20) Computing and Control Engineering, Master Academic Studies
				(SE0) Software Engineering and Information Technologies, Master Academic Studies
13.	DRNI07	Colorted Chapters in Computational	Intalliganaa	(E20) Computing and Control Engineering, Doctoral Academic Studies
		Selected Chapters in Computational	intelligence	(OM1) Mathematics in Engineering, Doctoral Academic Studies
14.	DRNI14	Selected Chapters in Machine Learn	ning	(E20) Computing and Control Engineering, Doctoral Academic Studies
15.	DRNI17	Selected Topics in ICT enhanced learnin	ornin a	(E20) Computing and Control Engineering, Doctoral Academic Studies
			arning	(OM1) Mathematics in Engineering, Doctoral Academic Studies
16.	DRNI18	Selected Topics in Distributed/Mobile computing		(E20) Computing and Control Engineering, Doctoral Academic Studies
				(F20) Engineering Animation, Doctoral Academic Studies
Representative refferences (minimum 5, not more than 10)				
1.	Konjović Z., Obradović Đ., Racković M., Object oriented implementation of the neural network training system, Proc. Of Seventh IFSA '97 World Congress, Prague 1997.			
2.	Obradović Đ. Jovanović D., Konjović Z., Govedarica M., Web based software system supporting detection of topographical symbols, InterGeoEast 2006.			
3.	Obradović Đ. Racković M., Algorithmic Structure for Representation of the Various Neural Network Models, XI Conference on Applied Mathematics PRIM '96 Budva 1996.			
4.	Konjović Z., Fišl I., Obradović Đ., "Specification of the language for reporting in library information system", YuInfo'98, Kopaonik 1998.			
5.	Obradović Đ., Konjović Z., "The system for the computer supported testing students knowledge", Yulnfo'99, Kopaonik 1999.			
6.	Šolajić D., Obradović Đ., Konjović Z., "Reengineering in the anthropomorphic gait simulation system", PRIM 2000			
7.	Obradović Đ., Konjović Z., "Anthropomorphic Gait Simulation System", PRIM 2000			
8.	Obradovi	Obradović Đ., Šolajić D., Konjović Z. "Softverski sistem za administriranje procesa izvođenja nastave", YUINFO 2004		
9.	Šolajić D., Obradović Đ., Konjović Z., "Web bazirana aplikacija za podršku razvoju softverskog projekta" YUINFO 2004			
10.	Jovanović D., Obradović Đ., Konjović Z., Govedarica M., Softverski sistem za detekciju topografskih znakova na kartama i mapama, Yulnfo, Kopaonik 2005.			
Summary data for teacher's scientific or art and professional activity:				
Quotation total : 0				
Total of SCI(SSCI) list papers: 0				
Current projects: Domestic: 0 International: 0				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:				i	Okanović Đ. Dušan			
	e and last n	unic.			Assistant Professor			
		itution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:			adridi Worko fall allio alla	01.02.2004			
Scier	ntific or art f	ield:			Applied Computer Science and Informatics			
Acad	Academic carieer Year Institution					Field		
Acad	lemic title el	ection:	2012	Faculty of Technical Science	ences - Novi Sa	ad	Applied Computer Science and Informatics	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics	
Magi	ster thesis		2006	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Science	
Bach	elor's thesis	3	2002	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Science	
List o	of courses b	eing he	ld by the te	acher in the accredited stu	idy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
						Academic		
						Studies	desy and Geomatics, Undergraduate Academic tware Engineering and Information Technologies.	
1.	E233	Interne	Internet Networks			Ùndergrad	luate Academic Studies tware Engineering and Information Technologies -	
						Loznica, U	Indergraduate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
2.	ISIT23	Web Programming				(SII) Software and Information Technologies (Indija), Undergraduate Professional Studies		
3.	ISIT30	Business process management systems					vare and Information Technologies (Inđija), luate Professional Studies	
4.	ISIT34	Identity Management					vare and Information Technologies (Inđija), luate Professional Studies	
5.	ISIT36	Softwa	re Develop	ment Tools		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
6.	ISIT43	Config	uration and	Administration of Compu	ter Systems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
7.	ISIT45	eTrade	e and eBan	king technologies and sys	tems	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
	050004	0-6	0	ation and Tanking		(SE0) Soft Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
8.	SE0024	Sonwa	ire Constru	ction and Testing			tware Engineering and Information Technologies - Indergraduate Academic Studies	
						(P00) Prod Studies	duction Engineering, Undergraduate Academic	
9.	SE239A	Web p	rogrammin	g			tware Engineering and Information Technologies, luate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
10	ED007	Das	ont ond s	ntont management		(I20) Engil Studies	neering Management, Specialised Professional	
10.	EP007	Docum	ieni and co	ntent management		(IB0) Engi Profession	ineering Management - MBA, Specialised al Studies	
11.	AD0008	Web d	esign in Ar	chitecture			ital Techniques, Design and Production in re and Urban Planning, Master Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Master Studies	
10	ESESS	Softwa	aro Standar	dization and Ouglity		(MR0) Me Academic	easurement and Control Engineering, Master Studies	
12.	E2522	SUIWE	Software Standardization and Quality				tware Engineering and Information Technologies, ademic Studies	
							er, Electronic and Telecommunication ng, Master Academic Studies	

ASTRAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type			
13.	DRNI05	Selected Topics in Software Standa	rdization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies				
				(F20) Engineeri	ng Animation, Doctoral Acad	emic Studies		
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.		D., van Hoorn A., Konjović Z., Vidak Ince Problem Localization, Computer						
2.	Dušan O 2005.	kanović, Zora Konjović, Automatska ir	nicijalizacija klasa iz XI	ML datoteke, Zbo	rnik radova YU INFO 2005 (CD), Kopaonik		
3.	Dušan Okanović, Milan Vidaković, Upotreba JMX MLet servisa za ažuriranje verzija Java aplikacija, Zbornik radova YU INFO 2007 (CD), Kopaonik 2007.							
4.	4. Đorđe Obradović, Milan Vidaković, Zora Konjović, Dušan Okanović, "Generator ekranskih formi za JBoss Seam bazirane aplikacije", Zbornik radova YU INFO 2008 (CD), Kopaonik 2008.							
5.	Divan Okanović Milan Vidaković "Primana iPDM akružanja u implamentaciji al Inrava". Zbarnik radava VILINEO 2000 (CD)							
6.		Penca, Siniša Nikolić, Dušan Okanovi adova YU INFO 2009 (CD), Kopaonik		obraćaja sistemo	m za detekciju upada u mre.	žu Snort",		
7.		D., Vidaković M.: Software Performa on Society Technology and Managem	•	•	n, 2. International Conferenc	e on		
8.		D., van Hoorn A., Konjović Z., Vidak ice on Information Technology - ICIT,				ternational		
9.		D., Konjović Z., Vidaković M.: Contii Conference on Industrial Systems - I			Quality Assurance, 15. Intern	ational		
10.	Okanović D., Vidaković M.: One Implementation of The System for Application Version Tracking and Automatic Updating, Proceedings of the IASTED International Conference on Software Engineering - SE 2007, Innsbruck, 12-14 februar 2008.							
Sur	nmary data	for teacher's scientific or art and profe	essional activity:	_				
Quot	ation total:		0					
Total	Total of SCI(SSCI) list papers : 0							
Curre	urrent projects : Domestic : 0 International : 0							



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:			Pap I. Ištvan						
	lemic title:	unio.			Assistant Professor				
		titution v	vhere the te	eacher works full time and					
	ng date:	itation v	viicio uio to	doner works fair time and					
Scie	ntific or art f	ield:			Computer En	gineering ar	nd Computer Communication		
Acad	lemic carie	er	Year	Institution			Field		
Acad	lemic title e	lection:	2010				Computer Engineering and Computer Communication		
PhD	thesis		2009	Faculty of Technical Sci	ences - Novi S	ad	Computer Engineering and Computer Communication		
PhD	thesis		2008				Computer Engineering		
Magi	ster thesis		2001	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
Bach	elor's thesi	S	1998	Faculty of Technical Sci	ences - Novi S	ad	Computer Science		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
1.	RT43	Engine	eering of Co	omputer Based Systems			tware Engineering and Information Technologies, luate Academic Studies		
2.	RT52A	Dedica	ated Compu	uter Structure Design 1		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
3.	RT52B	Dedicated Computer Structure Design for S			Signal		10) Power, Electronic and Telecommunication ngineering, Undergraduate Academic Studies		
						tware Engineering and Information Technologies, luate Academic Studies			
4.	SE1006	Object	. Onented P	Programming 2			tware Engineering and Information Technologies - Indergraduate Academic Studies		
5.	SERT03	Embedded system design 1					tware Engineering and Information Technologies, uate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Master Studies		
6.	RT59	Real-Time System Design				(MR0) Measurement and Control Engineering, Master Academic Studies (SE0) Software Engineering and Information Technologic Master Academic Studies			
0.	1(100								
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
7.	RT511			puter engineering and con	nputer	(E20) Con Academic	nputing and Control Engineering, Master Studies		
,.	1(1011	comm	unications			(SE0) Software Engineering and Information Technologies, Master Academic Studies			
8.	DRT10	Select systen		s of embedded computer t	pased	(E20) Con Academic	nputing and Control Engineering, Doctoral Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	Consume	er Electr		Vegas: IEEE Consumer E			nent platform, 27. International Conference on 2, ISBN 978-1-4244-4701-5, UDK:		
2.	Mrazova			o I., Teslić N.: Smart audi	o/video playba	ck control ba	ased on presence detection and user localization		
3.	Appliance	es, 1. ÍE	EE Internat	tional Conference on Cons	sumer Electron	ics - Berlin (Safety and Energetic Efficiency of Home Electric (ICCE-Berlin), Berlin: IEEE Consumer Electronic eabs_all.jsp?arnumber=6031795		
4.	Pap I., Ša Internatio	arić Z., \ onal Con	/ukosavljev iference on	S., Teslić N., Temerinac	M.: Hands-free	e Voice Con	nmunication Platform Integrated With TV, 27. Electronics Society, , pp. 1-2, ISBN 978-1-4244-		
5.	Pap I., Ša	arić Z., T	Γeslić N.: Η				sactions on Consumer Electronics, 2011, Vol. 57,		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Rep	presentative refferences (minimum 5, not more th	an 10)							
6.	Pap I., Šarić Z., Jovičić S., Teslić N.: Adaptive microphone array for unknown desired speaker's transfer function, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 2007, Vol. 122, No 2, pp. 44-49, ISSN 10.1121/1.2749077, UDK: http://dx.doi.org/10.1121/1.2749077								
7.	Pap I., Šarić Z., Pal S., Velikić I.: Hands-free VoIP solution for embedded platforms in consumer electronics, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 22-25, ISBN 978-1-4577-0233-4, UDK: 10.1109/ICCE-Berlin.2011.6031822								
8.	Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: A Full-Duplex Hands-Free Videophone Add-on Device for Digital Television Sets, 1. IEEE International Conference on Consumer Electronics - Berlin (ICCE-Berlin), Berlin: IEEE Consumer Electronics Society, 6-8 Oktobar, 2011, pp. 382-385, ISBN 978-1-4577-0232-7, UDK: http://dx.doi.org/10.1109/ICCE-Berlin.2011.6031817								
9.	Kaštelan I., Katona M., Pap I., Davidović M., Rešetar I.: An Integrated Audio and Video Communication System for Digital Television Sets, 2. IEEE Eastern European Conference on the Engineering of Computer Based Systems, Bratislava: IEEE Computer Society, 5-6 Septembar, 2011, pp. 78-84, ISBN 978-0-7695-4418-2, UDK: http://dx.doi.org/10.1109/ECBS-								
10.	Bjelica M., Pap I., Teslić N., Coulon J.: Set-top box-based home controller, 14. IEEE International Symposium on Consumer Electronics (ISCE2010), Braunschweig: IEEE Consumer Electronics Society, 7-10 Jun, 2010, pp. 1-6, ISBN 978-1-4244-6672-6/10, UDK: http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5523704								
Sur	mmary data for teacher's scientific or art and profe	essional activity:							
Quot	ation total :	0							
Total	of SCI(SSCI) list papers :	2							
Curre	ent projects :	Domestic :	0	International:	0				



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

Study Programme Accreditation



Computing and Control Engineering



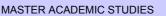
Science, arts and professional qualifications

Nam	e and last n	ama.			Paričić P. Bra	nko		
	Academic title:			Perišić R. Branko Associate Professor				
		titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
1	ng date:				01.04.1983			
Scientific or art field:			Applied Comp	Applied Computer Science and Informatics				
Acad	lemic carie	er	Year	Institution			Field	
	lemic title e		2011	Faculty of Technical Sci			Applied Computer Science and Informatics	
Educ	ation Speci	alist	2007	Software Engineering In University - Pittsburgh	stitute at Carna	agie Mellon	Computer Science	
	ation Speci	alist	2004	Software Engineering In University - Pittsburgh	stitute at Carna	agie Mellon	Computer Science	
	thesis		1994	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
Magi	ster thesis		1986	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
Bach	elor's thesi	S	1977	Faculty of Electrical Eng	ineering - Sara	ijevo	Electrical and Computer Engineering	
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
1.	E235	Fundamentals of Information Systems and S Engineering			Software	(F10) Eng Studies	ineering Animation, Undergraduate Academic	
						(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
					(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
2.	E242	Software Specification and Modeling				(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
					(SEL) Software Engineering and Loznica, Undergraduate Academi		tware Engineering and Information Technologies - Indergraduate Academic Studies	
3.	E2S40	Softwa	are Patterns	s and Components		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
	L2040	CONTRO	are r atterne	dia componento		(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
4.	RI45	Software Design					easurement and Control Engineering, luate Academic Studies	
						(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
						(E20) Computing and Control Engineering, Undergraduate Academic Studies		
5.	RI53	Busine	ess Informa	tion Systems		Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
						Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
6.	ISIT22	Osnov	e baza pod	ataka			vare and Information Technologies (Inđija), luate Professional Studies	
7.	ISIT26	Upravl	janje projek	ktima			vare and Information Technologies (Inđija), luate Professional Studies	
8.	ISIT28	Inform	aciona bez	bednost		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
9.	ISIT2E	Osnov	e projektov	anja softvera		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
10.	ISIT33	Integracija i verifikacija softverskih aplikacij			а	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		



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

Study Programme Accreditation



Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes						
	ID	Course name	Study programme name, study type				
11.	SE0011	Introduction to Software Engineering	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies				
11.	320011	Introduction to Software Engineering	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies				
			(P00) Production Engineering, Undergraduate Academic Studies				
12.	SE0017	Software Development Metrodologies	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies				
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies				
13.	SES103	Oral and written communication skills	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies				
13.	3L3103	Oral and written communication skills	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies				
14.	SES40	Software patterns and components	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies				
14.	32340	Software patterns and components	(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies				
15.	E2508	Agile Software Development Methodology	(E20) Computing and Control Engineering, Master Academic Studies				
13.	13. L2306	Agric Software Development Methodology	(SE0) Software Engineering and Information Technologies, Master Academic Studies				
			(E20) Computing and Control Engineering, Master Academic Studies				
16.	E2509	Protection and Receivery of Software Systems	(MR0) Measurement and Control Engineering, Master Academic Studies				
10.	22000	Protection and Recovery of Software Systems	(SE0) Software Engineering and Information Technologies, Master Academic Studies				
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies				
17.	GS014	The application of information technologies in energy efficiency	(G10) Energy Efficiency in Buildings, Specialised Academic Studies				
			(E20) Computing and Control Engineering, Master Academic Studies				
18.	E2522	Software Standardization and Quality	(MR0) Measurement and Control Engineering, Master Academic Studies				
10.	LZJZZ		(SE0) Software Engineering and Information Technologies, Master Academic Studies				
			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies				
19.	DRNI05	Selected Topics in Software Standardization and Quality	(E20) Computing and Control Engineering, Doctoral Academic Studies				
			(F20) Engineering Animation, Doctoral Academic Studies				
20.	DRNI08	Selected Topics in Information Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies				
21.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies				
۷۱.	DA0014	Colocieu Topics iii Colliputilig	(OM1) Mathematics in Engineering, Doctoral Academic Studies				
22.	DRNI12	Selected Topics in Contemporary Software Development	(E20) Computing and Control Engineering, Doctoral Academic Studies				
	Methods (F20) Engineering Animation, Doctoral Academic Studies						
Rep		e refferences (minimum 5, not more than 10)					
1.	2004	c, G. Milosavljević "A Method and Tool for Rapid Prototyping					
2.	Compute	., Milosavljević G., Dejanović I., Milosavljević B.: UML Profi r Science and Information Systems (ComSIS), 2011, Vol. 8.	, No 2, pp. 405-426, ISSN 1820-0214				
3.		ć I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Dor e Applications, Computer Science and Information Systems	main-Specific Language for Defining Static Structure of (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214				
	25.00000 . pp.100.10, 0011pater 0010100 and information 050tolife (0011010), 2010, 401. 1, 140.0, pp. 100-110, 10014 1020-0214						



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)								
4.	Branko Perišić "DMIS-Distributed Medical Information System Concept&Structure", SystemScienceJournal N0.1 Vol.13 1987								
5.	Dejanović I., Perišić B., Milosavljević G., Stričević N.: Towards a foundation for distributed version control of SLE artifacts. In 3rd International Workshop on Model-Based Software and Data Integration								
6.	Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators Symposium@MODELS 2011: Software Modeling in Education, pages 31-40, Wellington, New Zealand, www.se.uni-oldenburg.de/documents/olnse-2-2011-EduSymp.pdf								
7.	Milosavljević G., Dejanović I., Perišić B., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 77-94								
8.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain- Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24								
9.	G.Milosavljević, B.Perišić "Really Rapid Prototy Systems Prototyping San Diego 2003	yping of Large-Scale E	Business Informat	ion Systems", IEEE Worksho	op on Rapid				
10.	Perišić B., Zečević I.: Program package University organizational structure Korisnik: FTN Novi Sad, Univerzitet u Novom Sadu Rađeno za: TEMPUS . 2007								
Su	mmary data for teacher's scientific or art and profe	essional activity:							
Quo	tation total :	12							
Tota	l of SCI(SSCI) list papers :	4							
Curr	rent projects :	Domestic :	1	International :	6				



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Petrovački P. Dušan				
	lemic title:				Emeritus Professor				
Nam	e of the inst	titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				01.01.1971				
Scie	ntific or art f	ield:			Automatic Control and System Engineering				
Acad	lemic carie	er	Year	Institution			Field		
Acad	lemic title e	lection:	2011				Automatic Control and System Engineering		
PhD	thesis		1979	Faculty of Technical Science	ences - Novi S	ad	Automatic Control and System Engineering		
Magi	ster thesis		1973	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
Bach	elor's thesi	S	1968	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	AU509	Nonlin	ear Contro	Systems		(E20) Cor Academic	nputing and Control Engineering, Master Studies		
۱.	A0309	NOTHIT	ear Control	Cystems		Academic			
						Academic			
2.	E2515	Intelligent Control Systems				Academic			
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
						(E20) Computing and Control Engineering, Master Academic Studies (MD0) Massurement and Control Engineering, Master			
3.	GIAU01	1 Geosensor networks				Academic			
						Engineerin	er, Electronic and Telecommunication ig, Master Academic Studies		
4.	GIAU04	Geospatial data visualization				Academic			
5.	M3417	Applie	d industrial	automatization		(M30) Energy and Process Engineering, Master Academic Studies			
6.	SDGI04	Select Detect		s in Underground Infrastru	ıcture	(GI0) Geodesy and Geomatics, Specialised Academic Studies			
7.	SDGI08	Select	ed topics ir	laser scanning		(GI0) Geo Studies	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
8.	SDGI13	Select	ed topics ir	spatial data infrastructure	•	(GI0) Geo Studies	(GI0) Geodesy and Geomatics, Specialised Academic Studies		
9.	SDGI3C	Select	ed topics ir	Geoportals		(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
10.	SDGI5F	Basic t	topics in re	mote sensing and image p	rocessing	(GI0) Geo Studies	desy and Geomatics, Specialised Academic		
11.	DAU005			s in Optimization Methods		(M00) Mechanical Engineering, Doctoral Academic St			
12.	DAU011	and Te	echnologies		•	(E20) Cor Academic	nputing and Control Engineering, Doctoral Studies		
13.	DGI004	Detect	ion	s in Underground Infrastru		<u> </u>	desy and Geomatics, Doctoral Academic Studies		
14.	DGI010			s in Landscape Arrangem	ent		desy and Geomatics, Doctoral Academic Studies		
15.	DGI016		· ·	s in Systems and Signals	nto ma		desy and Geomatics, Doctoral Academic Studies		
16.	DGI018	Select	eu Chapter	s of Automatic Control Sys	sterns		ndesy and Geomatics, Doctoral Academic Studies		
17.	DAU005		•	s in Optimization Methods		Academic	nputing and Control Engineering, Doctoral Studies		
Rep			•	num 5, not more than 10)					
1.	D. Petrov Basel, Sv			trol of a Heat Conduction	Problem" Journ	nal of Applie	ed Mathematics and Physics, Vol. 26; 463-480,		
2.	D. Petrov Control, V	⁄ački: "T ∕ol. 32,	he Minimur No. 1, 51-6	m Time Problem for a Clas 2, London, United Kingdo	ss of Nonlinear m., 1980	Distributed	Parameter Systems", International Journal of		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)								
3.	S. Odri, D. Petrovački, G. Krstonošić: "Evolutional Development of a Multi Level Neural Networks", INNS Neural Networks, Pergamon Press, Volume 6, Number 4, 1993.								
4.	V.Pavlica, D.Petrovački: "About simple fuzzy control and fuzzy control based on fuzzy relational equations", International Journal FUZZY SETS AND SYSTEMS, Elsevier-Science, Amsterdam								
5.	Ristić A., Petrovački D., Govedarica M.: A New Method to Simultaneously Estimate the Radius of a Cylindrical Object and the Wave Propagation Velocity from GPR Data (SCI 2010 IF=1.416), Computers & Geosciences, 2009. Vol.35, No 8, p 1620-1630, ISSN 0098-3004								
6.	Govedarica M., Petrovački D., Sladić D., Ristić A., Jovanović D., Pajić V., Vrtunski M., Ristić A.: ENVIRONMENTAL DATA IN SERBIAN SPATIAL DATA INFRASTRUCTURE - GEOPORTAL OF ECOLOGY (IF 2010 0.178) positively evaluated and accepted for publication in JEPE 2011, Journal of Environmental Protection and Ecology, 2012, ISSN 1311-5065								
7.	Ristić A., Abolmasov B., Govedarica M., Petrovački D., Ristić A.: Shallow-landslide spatial structure interpretation using a multigeophysical approach (IF2011 0.100), Acta Geotechnica Slovenica, 2012, Vol. 9, No 1/2012, pp. 47-59, ISSN 1854-0171								
8.	Govedarica M., Sladić D., Petrovački D., Ninko 0.167), Geodetski list, 2010, Vol. 64, No 4, pp.			Spatial Information Systems	s (2009 IF =				
9.	Ristić A., Govedarica M., Petrovački D.: GNSS (PTEP), 2010, Vol. 14, No 1, pp. 6-10, ISSN 18			rocesnu tehniku i energetiku	u poljoprivredi				
10.	Ristić A., Petrovački D., Govedarica M.: Radar Remote Sensing Technologies - the Usage in Agriculture, Časopis za procesnu tehniku i energetiku u poljoprivredi (PTEP), 2010, Vol. 14, No 2, pp. 76-80, ISSN 1821-4487, UDK: 621.396.96(075.8)								
Sui	Summary data for teacher's scientific or art and professional activity:								
Quo	tation total :	45							
Tota	l of SCI(SSCI) list papers :	5							
Curr	ent projects :	Domestic :	9	International :	1				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:			Petrovački Lj. Nebojša					
Acad	emic title:				Assistant Professor			
1	e of the inst ng date:	titution v	vhere the te	eacher works full time and	-			
Scier	ntific or art f	ield:			Automatic Control and System Engineering			
Acad	emic carie	er	Year	Institution			Field	
Acad	emic title e	lection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
PhD	thesis		2008	Faculty of Technical Sci			Automatic Control and System Engineering	
Magi	ster thesis		2005	University of California, Angeles	Los Angeles - I	_OS	Automatic Control and System Engineering	
Bach	elor's thesis	S	2000	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(H00) Med	chatronics, Undergraduate Academic Studies	
1.	E226	Autom	atic Contro	l Systems			asurement and Control Engineering, luate Academic Studies	
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
		38A Control Systems Technology				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
2.	E238A					(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
							easurement and Control Engineering, luate Academic Studies	
3.	M3408	Automatic Control Systems					chnical Mechanics and Technical Design, luate Academic Studies	
4.	BMI125	Biolog	ical Control	Systems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
5.	EMSAU 1	Autom	atic Contro	Systems in Electronics		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
6.	GG226	Autom	atic control	systems in geomatics		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
7.	GG99	Geosp	atial techno	ologies - basics			aster Risk Management and Fire Safety, luate Academic Studies	
8.	M3409	Autom	atic control	systems		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
	A1.1500	Monlin	oor Control	Systems		(E20) Con Academic	nputing and Control Engineering, Master Studies	
9.	AU509	NOTHIT	ear Control	Systems		(MR0) Me Academic	asurement and Control Engineering, Master Studies	
						(E20) Con Academic	nputing and Control Engineering, Master Studies	
10.	GIAU01	Geose	ensor netwo	rks		(MR0) Me Academic	asurement and Control Engineering, Master Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
11.	M3417	Applie	d industrial	automatization		(M30) Energy and Process Engineering, Master Academic Studies		
12.	DGI018	Select	ed Chapter	s of Automatic Control Sy	stems	(GI0) Geo	desy and Geomatics, Doctoral Academic Studies	
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)				
1.	2.Zoran [accepted	D. Jeličio for pub	ć, Nebojša I lication on c	Petrovački: Optimality Cor July 29th, 2008 in Journal	nditions and a S of Structural A	Solution Sch	neme For Fractional Optimal Control Problems, ciplinary Optimization, Springer, Berlin-Heidelberg	
2.				fikacija, simulacija i uprav Sad, decembar 2008. go		DFA pojača	avača, Doktorska disertacija, Fakultet tehničkih	



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

Study Programme Accreditation



Computing and Control Engineering



Rep	Representative refferences (minimum 5, not more than 10)							
3.	3.Zoran D. Jeličić, Nebojša Petrovački: On The Fractional Order Model of EDFA With ASE, in The Proceedings of IEEE Conference on Numerical Simulation of Optical Devices, University of Nottingham, Great Britain, September 2008.							
4.	 4.Zoran D. Jeličić, Nebojša Petrovački: Fractional Derivative Model of Erbium-Doped Fiber Amplifiers With Asynchronous Spontaneous Emission, in Book of Abstracts of 2007 SIAM Conference on Control and Its Applications, June 29th - July 1st, 2007, San Francisco, California 							
5.	 5.Nebojša Petrovački, Zoran D. Jeličić: Specific Optimal Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of IFAC Workshop: Technology Transfer In Developing Countries: Automation in Infrastructure Creation, May 17-18, 2007 Izmir-Cesme, Turkey 							
6.	6. Nebojša Petrovački, Zoran D. Jeličić: Modeling, Simulation, And Control of Erbium-Doped Fiber Amplifiers, in The Proceedings of 7th Portuguese Conference on Automatic Control, Lisbon, Portugal, September 11-13th 2006							
7.	7. Nebojša Petrovački, Zoran D. Jeličić: Optimal Transient Response of Erbium-Doped Fiber Amplifiers, in The Proceedings of The 6th IEEE International Conference on Numerical Simulation of Optoelectronic Devices, Nanyang Technological University, Singapore, September 11-14th 2006							
8.	8.Nebojša Petrovački: Stationary Simulation of Proceedings of The 10th World Multi-Conferen Orlando, Florida (co-chair of the session)							
9.	9.Nebojša Petrovački: Erbium-Doped Fiber Amplifiers, invited talk at Department of Electrical and Computer Engineering of University of California, San Diego, April 14th, 2006.							
10.	11.Nebojša Petrovački: Gain Regulation In Erbium-Doped Fiber Amplifiers, in The Proceedings of The IEEE EUROCON 2005: The International Conference on Computer As A Tool, November 21-24, 2005, Belgrade, Serbia							
Summary data for teacher's scientific or art and professional activity:								
Quot	ation total :	0						
Total	Total of SCI(SSCI) list papers : 1							
Current projects: Domestic: 0 International:					3			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Popov B. Srđan				
Acad	lemic title:				Assistant Professor				
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad				
starti	ng date:				05.09.2001				
Scie	ntific or art f	ield:			Applied Comp	outer Scienc	ce and Informatics		
Acad	lemic caries	er	Year	Institution			Field		
Acad	lemic title el	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering		
Magi	ster thesis		2007	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering		
Bach	elor's thesis	S	1999	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	E111	Progra	amming Lar	guages and Data Structu	res	Engineerin (MR0) Me	ver, Electronic and Telecommunication ng, Undergraduate Academic Studies easurement and Control Engineering,		
							luate Academic Studies		
						(E20) Con	nputing and Control Engineering, Undergraduate		
2.	E214	Progra	amming Lar	guages and Data Structu	res		wer Software Engineering, Undergraduate		
3.	URZP11	Funda	mentals of	Information Technologies		(ZP0) Disa Undergrad	aster Risk Management and Fire Safety, luate Academic Studies		
4.	URZP23	3 Applied Information Technologies				(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies			
5.	URZP44	Application of geoinformation technology in management					ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies		
6.	IMDS45	Application of information and satellite technology management			nology in risk	Studies	neering Management, Specialised Academic		
7.	E2534	Data (Compressio	n		(E20) Computing and Control Engineering, Master Academic Studies			
						(SE0) Software Engineering and Information Technologies, Master Academic Studies			
						(E20) Computing and Control Engineering, Doctoral Academic Studies			
8.	DRNI01	Select	ed Topics i	n Computer Programming		(H00) Mechatronics, Doctoral Academic Studies			
						(OM1) Mathematics in Engineering, Doctoral Academic Studies			
9.	IMDR45		ation of Info lanagemen	rmation and Satellite Tec t	hnologies in	, ,	strial Engineering / Engineering Management, cademic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	bound po	lycyclic	aromatic h	J., Turk Sekulić M., Vojino ydrocarbons in the vicinity 2J, Hemijska industrija, 20	of the industria	al zone of th	.: Identification of emission sources of particle- ne city of Novi Sad DOI:		
2.	Ćosić Đ.,	Popov	S., Sakulsk		ormation Techr		isaster Risk Assessment, Acta Geotechnica		
3.				Popov S.: The Impact of (1, Vol. 6, No 4, pp. 1073-			bility of C Programs, TTEM. Tehnics tehnologies		
4.				•		•	Disaster Risk Reduction, 1. International ce, 5 Maj, 2012, pp. 15-16, ISBN 978-86-7031-		
5.				/ S., Pavlović A., Laban M /, Bar: Fakultet za pomors			ent and fire safety, 1. International conference 2, pp. 75-81		
6.							, Luhović A.: The aspect of bringing data in anagement", UDK: 37.01:004 (082)		
7.		ja, Tem	atski zborni				ava poplave i suše u cilju poboljšanja planiranja 2, No 12, pp. 136-146, ISSN 978-86-7520-107-6,		

STAS STUD

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	presentative refferences (minimum 5, not more than 10)
8.	Popović Lj., Popov S., Ćosić Đ., Sakulski D.: Impact of Visualization on Data Availability, UDK: CIP je dostupan u Univerzitetskoj biblioteci Rijeke pod brojem 121219001
9.	Alargić I., Badnjarević I., Vrtunski M., Popov S.: Setting the platform for testing the quality of DTM in the format of DTM-ASCII, 8

	iEEE international Symposium on intelligent Systems and informatics (SIST), Subotica, , pp. 233-230, ISBN 976-1-4244-7393-3							
10.	Popov S., Pavlović A., Ćosić Đ., Hlebjan M.: Interfacing Data Structures of Legacy Systems, 8. IEEE International Symposium on Intelligent Systems and Informatics (SISY), Subotica: 2010 IEEE , , pp. 409-411, ISBN 978-1-4244-7395-3							
Su	Summary data for teacher's scientific or art and professional activity:							
Quo	tation total :	0						
Tota	l of SCI(SSCI) list papers :	3						
Curr	ent projects :	Domestic :	2	International :	0			
		-	=	-				

Strana 152 Datum: 18.12.2012



Name and last name:

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

Study Programme Accreditation

Popović V. Miroslav



Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Popovic v. Mirosiav		
Academic title:					Full Professor		
_		itution v	vhere the te	acher works full time and			
starting date:					21.03.1985		
Scier	ntific or art f	ield:			Computer En	gineering ar	nd Computer Communication
Acad	lemic carie	er	Year	Institution			Field
Acad	lemic title e	ection:	2002	Faculty of Technical Sci	ences - Novi Sa	ad	Computer Engineering and Computer Communication
PhD	thesis		1990	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering
Magi	ster thesis		1988	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering
Bach	elor's thesi	3	1984	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering
List	of courses b	eing he	ld by the tea	acher in the accredited stu	ıdy programme	:S	
	ID	Course	e name			Study pro	gramme name, study type
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
1.	E23A2	Real T	ime Systen	n Programming 1			tware Engineering and Information Technologies - ndergraduate Academic Studies
						, ,	er, Electronic and Telecommunication g, Undergraduate Academic Studies
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
2.	E23M	Real T	ime Systen	n Programming 2		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies
							asurement and Control Engineering, uate Academic Studies
3.	SE0032	Daralle	el Programn	ning			tware Engineering and Information Technologies, uate Academic Studies
3.	3E0032	raialle	ei Frogramm	illig			tware Engineering and Information Technologies - ndergraduate Academic Studies
4.	SE1006	Object	Oriented P	Programming 2		(SE0) Soft Undergrad	tware Engineering and Information Technologies, uate Academic Studies
4.	3L1000	Object	Onented F	Togramming 2			tware Engineering and Information Technologies - ndergraduate Academic Studies
5.	SERT01	Syster	m Programn	ning 1			tware Engineering and Information Technologies, uate Academic Studies
9	RT57	Inter C	Computer Co	ommunications and Comp	outer	(E20) Con Academic	nputing and Control Engineering, Master Studies
6.	KISI	Netwo	rks 2				tware Engineering and Information Technologies, ademic Studies
7.	RT511	Practic	cum in com	outer engineering and con	nputer	(E20) Con Academic	nputing and Control Engineering, Master Studies
/.	HEIN	commi	unications	-			tware Engineering and Information Technologies, ademic Studies
8.	DAU002	Select	ed Chapter	s in Computing		(F00) Grap Studies	phic Engineering and Design, Doctoral Academic
						(H00) Med	chatronics, Doctoral Academic Studies
9.	DRT01	Select	ed Chapter	s in Real Time Systems S	oftware	(E20) Con Academic	nputing and Control Engineering, Doctoral Studies
10	DALI014	Soloct	od Topics i	a Computing		(E20) Con Academic	nputing and Control Engineering, Doctoral Studies
10.	DAU014	Select	eu ropics if	n Computing		(OM1) Ma Studies	thematics in Engineering, Doctoral Academic
Dor	Penrocontative refferences (minimum 5, not more than 10)						

Representative refferences (minimum 5, not more than 10)

- 1. Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 1: Programski alati i paralelno programiranje, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.
- 2. Vladimir Kovačević, Miroslav Popović, Sistemska programska podrška u realnom vremenu 2: Operativni sistemi za rad u realnom vremenu, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2011.



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

Study Programme Accreditation



Computing and Control Engineering



 4. Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8 5. Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technological Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849 6. Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248 									
 Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8 Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technologics Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849 Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248 Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Manager Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215 	Miroslav Popović, Communication Protocol Engineering, CRC Press, Boca Raton, Florida, 2006, ISBN 0849398142.								
 5. Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849 6. Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248 7. Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Manager Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215 	Čapko D., Erdeljan A., Popović M., Švenda G.: An Optimal Relationship-Based Partitioning of Large Datasets, LNCS, Springer Verlag, 2010, str. 555-558, ISBN 978-3-642-15575-8								
 Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248 Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Manager Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215 	Popović M., Bašičević I.: Test case generation for the task tree type of architecture, Information and Software Technology, Elsevier, 2010, Vol. 52, No 6, pp. 697-706, ISSN 0950-5849								
Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215	Popović M., Kuprešanin I., Bašičević I.: Generic method for statistical testing of parallel programs based on task trees, Scientific Research and Essays, 2012, Vol. 7, No 11, pp. 1992-2248, ISSN 1992-2248								
Čanko D. Erdolian A. Ponović M. Švonda G.: An Ontimal Initial Partitioning of Large Datasets in Litility Management	Čapko D., Erdeljan A., Švenda G., Popović M.: A Dynamic Repartitioning of Large Data Model in Distribution Management Systems, Electronics and electrical engineering, 2012, Vol. 5, No 121, pp. 1392-1215, ISSN 1392-1215								
8. Journal of Advances in Electrical and Computer Engineering, 2011, Vol. 11, No 4, pp. 41-46, ISSN 1582-7445	t Systems,								
9. Bašičević I., Kukolj D., Popović M.: On the application of fuzzy-based flow control approach to High Altitude Platform communications, Applied Intelligence, 2010, Vol. 2093, pp. 75-84, ISSN 1573-7497									
10. Bašičević I., Popović M.: Use of SIP Protocol in Development of Telecom Services , Journal of The Communications N 2008, Vol. 3, No October, ISSN 1477-4739	0. Bašičević I., Popović M.: Use of SIP Protocol in Development of Telecom Services, Journal of The Communications Network, 2008, Vol. 3, No October, ISSN 1477-4739								
Summary data for teacher's scientific or art and professional activity:									
Quotation total : 216									
Total of SCI(SSCI) list papers : 11									
Current projects : Domestic : 1 International : 1									



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:						Popović B. Dejan				
Academic title:				Full Professor						
	Name of the institution where the teacher works full time and				School of Electrical Engineering - Beograd					
starti	ng date:					01.10.1974				
Scie	ntific or art f	ield:				Biomedical E	ngineering			
Acad	lemic carie	er	Year	Institution				Field	t	
Acad	lemic title e	ection:	1996	School of Electric	al Eng	ineering - Beog	rad	Bior	nedical Engineering	
PhD	thesis		1981					Bior	nedical Engineering	
Magi	ster thesis		1977					Elec	etronics	
Bach	elor's thesi	3	1974					Elec	etronics	
List	of courses b	eing hel	d by the tea	acher in the accred	lited stu	ıdy programme	s			
	ID	Course	e name				Study pro	gram	me name, study type	
1.	AU505	Neural	Prostheses	3			(E20) Com Academic S		g and Control Engineering, es	Master
Rep	oresentative	reffere	nces (minim	num 5, not more tha	an 10)					
1.				ć DB, Stefanović A cal measure of spa					est: Assessment of coordina	ation abilities
2.	Popović I Neural Pi	DB, Pop	ović MB, Si s: A Cross-	nkjar T, Stefanović over study, Can J F	A, Sch	nwirtlich L. Thei Pharmacol, 82(apy of Pare 8/9):749-75	tic Ar 6, 20	m in Hemiplegic Subjects A 04.	ugmented with a
3.				chwirtlich L, Sinkjar 3-140, 2004.	T. Clir	nical Evaluation	of Function	al Ele	ectrical Therapy (FET) in chi	onic hemiplegic
4.				nkjar T, Stefanović ab Res Develop, 40			cal Evaluation	on of	Functional Electrical Therap	y in Acute
5.	Popović I	DB. Con	trol of Walk	ing in Humans with	n Impa	ct to Standing a	nd Walking,	, J Au	t Control, 13:1-34 (Supplem	ent), 2003.
6.	Popovic I	DB. Con	trol of curre	nt and future neura	al prost	heses, Med En	g Phys, 25(1):1-2	2, 2003.	
7.	Popović I 25(1):63-			chwirtlich L, Jauko	vić N. A	Automatic vs. h	and-controlle	ed wa	alking of paraplegics. Med E	ng Phys,
8.	Popović I	MR, Pop	ović DB, K	eller T. Neuroprostl	heses 1	for Grasping, N	eurol Res, 2	24(5):	443-452, 2002.	
9.				Chen AC, Popović I (5)349-360, 2002.		tomatic recogni	tion of alertr	ness	and drowsiness from EEG b	y artificial neural
10.	Popović I	ИВ, Рор	ović DB, To	omović R. Control o	of arm i	movement: rea	ching synerg	gies,	J Aut Control, 12(1):9-15, 20	002.
Sur	nmary data	for teac	her's scient	ific or art and profe	essiona	l activity:				
Quot	ation total:				651					
Total	of SCI(SS	CI) list p	apers :		65	-				
Curre	Current projects : Dom					estic :	2		International :	4



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:				Popović B. Mirjana					
Acad	emic title:					Full Professor			
		itution w	vhere the te	acher works full time	e and	School of Ele	ctrical Engin	neering - Beograd	
-	starting date:					01.10.2009			
Scier	ntific or art f	ield:				Electrical and	Computer I	Engineering	
Acad	emic carie	er	Year	Institution				Field	
Acad	emic title e	ection:	2009					Electrical and Computer Engineering	
PhD	thesis		1995					Automatic Control and System Engine	ering
Magi	ster thesis		1985					Automatic Control and System Engine	ering
Bach	elor's thesis	3	1976					Automatic Control and System Engine	ering
List c	f courses b	eing hel	ld by the tea	acher in the accredite	ed stu	udy programme	s		
	ID	Course	e name				Study pro	ogramme name, study type	
1.	AU503	Method	ds of Analys	sing Electrophysiolog	gical S	Signals	(E20) Com Academic	mputing and Control Engineering, Maste Studies	r
Rep	resentative	reffere	nces (minim	num 5, not more thar	า 10)				
1.	neural ne Available	tworks b	based predi 25 January	ction of cerebral pals 2012, ISSN 0378-37	sy in i '82,	infants with cer	tral coordina	Lidija Dimitrijević, Ljiljana Bjelaković, Art lation disturbance, Early Human Develop /pii/S0378378212000023	
2.	Popovic,	Dejan B	., Sinkjær,		lirjana	a B. Electrical s		is a means for achieving recovery of fund	ction in
3.				oovic MB. Automatic hesis, IEEE Trans N				Radial Basis Function Artificial Neural No 32-489, 2005	etworks
4.				Jorgovanovic N, Boja al Organs, 29(6):448			Popovic MB	3, Multi-field surface electrode for selecti	ve
5.		2011;	,					covery of motor function, Progress in Bra http://dx.doi.org/10.1016/B978-0-444-53	
6.			lić G, Miler -60, 2009	V, Došen S, Popović	MB,	Schwirtlich L. I	_umbar stim	nulation belt for therapy of low-back pain	, Artificial
7.	MB. Popo 2007(118		. Popovic, (CF. Eder, L. Schwirtli	ich, C	coordination of	tracking mo	vement in stroke, Clinical neurophysiolo	gy,
8.			. Popovic, F 2007(118)		Thera	apy integrated i	nto intensive	e exercise of individuals with hemiplegia	a, Clinical
9.				eraro F, Cenciotti L, neurological disorde				rization of upper arm synergies during re 9): 939-946, 2005	eaching
10.	disease p	atients,	Brazilian Jo					le method to assess freezing of gait in Po (9):883 - 889, http://dx.doi.org/10.1590/S	
Sun	nmary data	for teac	her's scient	tific or art and profes	siona	l activity:			
Quot	ation total :								
—	of SCI(SS		apers :						
Curre	ent projects	:		ַן	Dome	estic :		International :	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and last name:					Rapaić R. Milan				
Acad	lemic title:				Assistant Professor				
Name of the institution where the teacher works full time and									
					01.12.2006				
Scier	ntific or art f	ield:			Automatic Co	ontrol and Sy	ystem Engineering		
Acad	lemic caries	er	Year	Institution			Field		
Acad	lemic title el	ection:	2011	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
Mast	er's thesis		2006	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
List c	of courses b	eing hel	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	AU41	Digital	Control Sy	stems		Academic (MR0) Me	nputing and Control Engineering, Undergraduate Studies asurement and Control Engineering, luate Academic Studies		
							nputing and Control Engineering, Undergraduate		
2.	E237	Optimi	zation Meth	nods		Undergrad	asurement and Control Engineering, luate Academic Studies		
	2201	Optimization Methods				(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
						Loznića, U	tware Engineering and Information Technologies - Indergraduate Academic Studies		
3.	E237A	Optimi	zation Meth	nods		Studies	desy and Geomatics, Undergraduate Academic		
4.	GI005		ent Control			Studies	desy and Geomatics, Undergraduate Academic		
5.	H1405		zation Meth				H00) Mechatronics, Undergraduate Academic Studies		
6.	H302	Contro	l Systems 2	2		1	chatronics, Undergraduate Academic Studies		
7.	BM118A	Nonlin	ear prograr	nming and optimal control		Studies	medical Engineering, Undergraduate Academic		
8.	BM130A	Digital	control sys	tems in bioengineering		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
9.	E2316	Real-ti	me control	systems		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
10.	SEAU01	Nonlin	ear prograr	nming and evolutionary co	omputations		tware Engineering and Information Technologies, luate Academic Studies		
11.	SEAU03	Real-ti	me control	algorithms			tware Engineering and Information Technologies, luate Academic Studies		
12.	AU511	Adanti	ve and ∆dv	anced Control		(E20) Con Academic	nputing and Control Engineering, Master Studies		
12.	A0011	•				(MR0) Me Academic	asurement and Control Engineering, Master Studies		
13.	A118S	urbani	<u>sm</u>	chnologies applied to arch		,	hitecture, Specialised Academic Studies		
14.	AT03	Optimi design		control techniques in arch	itectural	` /	itel Techniques Resign and Resturtion in		
15.	AT04	Contemporary theories and technologies app architecture, urbanism and design 1			oplied to	Architectur	ital Techniques, Design and Production in earn Urban Planning, Master Academic Studies intecture, Master Academic Studies		
16.	AT05			eories and technologies ap	oplied to	`	nitecture, Master Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Doctoral Studies		
17.	DAU010	Select	ed Chapter	s in Nonlinear Control Sys	stems		thematics in Engineering, Doctoral Academic		
18.	A118	Conter		hnologies applied to arch	itecture and		hitecture, Doctoral Academic Studies		

ASTAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programi	me name, study type				
19.	DAU005	Selected Chapters in Optimization M	Methods	(E20) Computin Academic Studie	g and Control Engineering, I es	Doctoral			
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.		Rapaić, "Optimalno i suboptimalno up i Sad, 2011	ravljanje klasom sister	na sa raspodeljer	nim parametrima", doktorska	disertacija,			
2.		etković, Milan R. Rapaić, Zoran D. Jel detection, Expert Systems with Applic							
3.	Milan R. 2010	Rapaić, Zoran D. Jeličić, Optimal conf	trol of heat diffusion sy	stems, Nonlinear	Dynamics, Vol 62, Number	1-2, 39-51,			
4.		ro Pisano, Milan R. Rapaić, Zoran D. able fractional-order dynamics, Interna 56							
5.		nović, Milan Rapaić, Zoran Jeličić, Ge with Application in Fault Detection, Ap							
6.		Rapaic, Zeljko Kanovic, Time-Varying er Adjustment Schemes, Information F				tion and New			
7.		Rapaić, Tomislav B. Šekara, Novel di Engineering, DOI: 10.1007/s00202-0		ct method for disc	cretization of linear fractional	systems,			
8.	approach	Popović, Milica T. Atanacković, Ana S to the compartmental analysis in pha macodynamics, Vol. 37, No. 2, (2010	rmacokinetics: fraction						
9.	Jovan K. Popović, Milica T. Atanacković, Ana S. Pilipović, Milan R. Rapaić, Teodor M. Atanacković, Stevan Pilipović, Remarks on								
10.	Jovan K. Popović, Diana Dolićanin, Milan R. Rapaić, Stevan L. Popović, Stevan Pilipović, Teodor Atanacković, A nonlinear two								
	,	for teacher's scientific or art and profe	essional activity:						
	ation total:		85						
	•	CI) list papers :	11	-					
Curre	Current projects : Domestic : 0 International : 0								



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	e and last n	ame:				Samardžija M. Dragan		
Acad	emic title:					Assistant Professor		
		titution v	vhere the te	acher works full time	and		chnical Scie	nces - Novi Sad
	ng date:					01.11.2008		10 10 11
	ntific or art f		Voor	Institution		Computer En	gineering ar	nd Computer Communication
Acad	emic caries	er	Year	Institution				Field Computer Engineering and Computer
	emic title el	lection:	2008	Faculty of Technica				Communication
	thesis		2004	Rutgers University			,	Electrical and Computer Engineering
⊢–	ster thesis		2000	Rutgers University				Electrical and Computer Engineering
	elor's thesis		1996	Faculty of Technica				Electrical and Computer Engineering
List o	of courses b	eing ne	ld by the tea	acher in the accredite	ed stu	dy programme	es .	
	ID	Course	e name				Study pro	gramme name, study type
							(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
1.	E23B	Funda	mentals of	Computer Networks 1	1		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies
								er, Electronic and Telecommunication g, Undergraduate Academic Studies
							(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
2.	E23B1	Comp	uter Networ	k Fundamentals 2			(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies
								er, Electronic and Telecommunication g, Undergraduate Academic Studies
3.	SE0015	Prenos	s podataka	i računarske komunik	kacije			tware Engineering and Information Technologies - ndergraduate Academic Studies
4.	4. RT511 Practicum in computer engineering and				d com	(E20) Computing and Control Engineering, Master Academic Studies		
	111011	commi	unications					tware Engineering and Information Technologies, ademic Studies
5.	DRT08	Select	ed Topics ir	n Wireless Computer	Comi	munications	(E20) Con Academic	nputing and Control Engineering, Doctoral Studies
Rep	oresentative	reffere	nces (minin	num 5, not more than	10)			
1.				Channel State Informa 54, str. 1335- 1345	ation l	Feedback in M	Iultiple Ante	nna Multiuser Systems, IEEE Transactions on
2.	Blind Suc 276- 290		Interference	ce Cancellation for DS	S-CDI	MA Systems, I	EEE Transa	actions on Communications, 2002, Vol. 50, str.
3.				MIMO Fading Channo tr. 2882- 2890	el Res	sponse and Ad	chievable Da	ata Rates, IEEE Transactions on Signal
4.			nsport of Ba 3216 - 3225		adio A	Access Netwo	rks, IEEE Tr	ransactions on Wireless Communications, Volume
5.	Peer-to-F 6, str. 322			hannel Measuremen	its in a	a Rural Area, I	EEE Transa	actions on Wireless Communications, 2007, Vol.
6.				hievable Data Rates ceivers, 2007, Vol. 2			Multiuser T	DD Systems, IEEE JSAC, Special Issue on
7.	Prototype	Experi		MO BLAST over Thir			ess System,	IEEE JSAC on MIMO Systems and Applications:
8.				r Audio Streaming in 3- 491, ISSN ISSN: 00			ess Network	s, IEEE Transactions on Consumer Electronics,
9.				for Residential Smart 8, no.3, pp.819-824,			ased on Zig	bee RSSI Changes, IEEE Transactions on
10.	Experime	ental Eva	aluation of l	• • • • • • • • • • • • • • • • • • • •	el Dec	convolution for	Wireless M	lultiple-Transmitter/Multiple-Receiver Systems,
Sur				tific or art and profess				
-	ation total :				311			
Total	Total of SCI(SSCI) list papers : 11							



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Current projects:

Domestic:

0 International:
0



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

Nam	e and last n	Name and last name:				Sladić S. Goran		
Acad	lemic title:				Assistant Professor			
Name of the institution where the teacher works full time and				eacher works full time and	Faculty of Technical Sciences - Novi Sad			
starting date:					01.02.2004			
	ntific or art f			1 000	Applied Computer Science and Informatics			
	lemic caries		Year	Institution			Field	
	lemic title el	ection:	2011	Faculty of Technical Sci			Applied Computer Science and Informatics	
	thesis		2011	Faculty of Technical Sci			Computer Science	
⊢–	ster thesis		2006	Faculty of Technical Sci			Computer Science	
	elor's thesis		2002	Faculty of Technical Sci			Computer Science	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
						Academic		
1.	E239A	Web P	rogrammin	α		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
''	220071	******	rogiaiiiiii	9			asurement and Control Engineering, uate Academic Studies	
						, ,	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
							asurement and Control Engineering, uate Academic Studies	
2.	E2E41	E-Business Systems Security					tware Engineering and Information Technologies, luate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
	F0K44	Diatrib					asurement and Control Engineering, luate Academic Studies	
3.	E2K41	DISTIID	uteu Artilici	al Intelligence and Intellige	eni Agenis		tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Sofi Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
4.	EOS36	Elektro	onsko poslo	vanje i ugovaranje			ver Engineering - Renewble Sources of Electrical ndergraduate Professional Studies	
	EE04	WED	Docien			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies	
5.	F501	WEB [zesiği i			(F10) Eng Studies	ineering Animation, Undergraduate Academic	
6.	ISIT10	Introdu	uction to So	ftware Development			vare and Information Technologies (Inđija), luate Professional Studies	
7.	ISIT20	Object	-oriented P	rogramming Platforms			vare and Information Technologies (Inđija), luate Professional Studies	
8.	ISIT2A	Softwa	are Develop	ment Techniques			vare and Information Technologies (Inđija), luate Professional Studies	
	SE0000	Ohiost	oriontad	ragramming 1			tware Engineering and Information Technologies, uate Academic Studies	
9.	SE0006	Object	. опептеа рг	ogramming 1			tware Engineering and Information Technologies - Indergraduate Academic Studies	
40	00044	0	uton are and	ation			tware Engineering and Information Technologies, uate Academic Studies	
10.	SE0014	Compi	uter organis	sauon			tware Engineering and Information Technologies - Indergraduate Academic Studies	



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

Study Programme Accreditation



Computing and Control Engineering



List o	f courses b	eing held by the teacher in the accredited study programme	es
	ID	Course name	Study programme name, study type
			(P00) Production Engineering, Undergraduate Academic Studies
11.	SE0017	Software Development Metrodologies	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies
12.	SE0024	Software Construction and Testing	(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies
			(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies (SE0) Software Engineering and Information Technologies,
13.	SES103	Oral and written communication skills	Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies -
			Loznica, Undergraduate Academic Studies (E20) Computing and Control Engineering, Master
14.	E2501	Electronic Payment Systems	Academic Studies (SE0) Software Engineering and Information Technologies,
			Master Academic Studies (120) Engineering Management, Specialised Professional
15.	EP007	Document and content management	Studies (IB0) Engineering Management - MBA, Specialised
			Professional Studies (E20) Computing and Control Engineering, Master
			Academic Studies (MR0) Measurement and Control Engineering, Master
16.	E2522	Software Standardization and Quality	Academic Studies (SE0) Software Engineering and Information Technologies,
			Master Academic Studies (E10) Power, Electronic and Telecommunication
			Engineering, Master Academic Studies
17.	SEM009	Identity Management	(SE0) Software Engineering and Information Technologies, Master Academic Studies
18.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies
19.	SEM017	Information Security	(SE0) Software Engineering and Information Technologies, Master Academic Studies
20.	DRNI03	Selected Topics in Internet-Based Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies
21.	DRNI16	Selected Topics in Electronic Business	(E20) Computing and Control Engineering, Doctoral Academic Studies
		<u>'</u>	(OM1) Mathematics in Engineering, Doctoral Academic Studies
22.	DRNI19	Selected Topics in Information Security	(E20) Computing and Control Engineering, Doctoral Academic Studies
Rep		refferences (minimum 5, not more than 10)	potral Framework for MADO Decords The Flacture 1."
1.	2012, Vo	. 30, No 5, pp. 623-652, ISSN 0264-0473, DOI:10.1108/020	
2.	Organiza DOI:10.1	tional Computing and Electronic Commerce, 2012, Vol. 22, 080/10919392.2012.667717	
3.	Science a		591-609, ISSN 1820-0214, DOI: 10.2298/CSIS100827002S
4.	Distribute	: M., Milosavljević B., Konjović Z., Sladić G.: Extensible Javid Library Catalogues, Computer Science and Information Str. 10.2298/csis0902001V	va EE-Based Agent Framework and Its Application on Systems (ComSIS), 2009, Vol. 6, No 2, pp. 1-28, ISSN 1820-
5.		, Milosavljević B., Konjović Z.: Extensible Access Control N ce on Security and Cryptology - SECRYPT, Barcelona: INS	Model for XML Document Collections, 1. International STICC, 28-31 Jul, 2007, pp. 373-380, ISBN 9789898111128
6.	Sladić G.	: Kontrola pristupa u poslovnim sistemima, Beograd, Zaduz	žbina Andrejević, 2011, ISBN 978-86-525-0000-0
7.	Sladić G.	: Kontrola pristupa XML dokumentima, Zadužbina Andreje	vić, 2008, ISBN 978-86-7244-683-8

STAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)							
8.	Vidaković M., Sladić G., Komazec S.: Sistemi za upravljanje elektronskim sadržajima i njihova primena u e-upravi, InfoM, Časopis za informacionu tehnologiju i multimedijalne sisteme, 2006, No 20, pp. 36-41, ISSN 1451-4397							
9.	Sladić G., Milosavljević B., Konjović Z.: Kontrola pristupa XML dokumentima, Info-M, 2005, Vol. 4, No 15-16, pp. 53-59							
10.	Milosavljević B., Komazec S., Sladić G.: Open source sistemi za upravljanje dokumentima u e-upravi, Info-M, 2006, Vol. 5, No 20, pp. 25-35							
Sur	mmary data for teacher's scientific or art and professional activity:							
0	North-Research 1.							

Summary data for teacher's scientific or art and professional activity:							
Quotation total :	54						
Total of SCI(SSCI) list papers :	4						
Current projects :	Domestic: 2 International: 0						



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



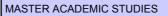
Science, arts and professional qualifications

Name and last name:			Surla I. Dušan						
	lemic title:					Emeritus Prof			
Nam	e of the inst	itution v	here the te	eacher works full tin	ne and	-			
starti	ng date:								
Scie	Scientific or art field:				Informatics				
Acad	lemic carie	er	Year	Institution				Field	
	lemic title e	ection:	2010					Informatics	
	thesis		1980	Faculty of Techni				Robotics and Flexible Automation	
Ť	ster thesis		1976	Faculty of Techni			ad	Robotics and Flexible Automation	
	elor's thesis		1969	Faculty of Mather				Mathematics	
List	of courses b	eing hel	d by the te	acher in the accred	ited stu	udy programme	s		
	ID	Course	e name				Study pro	gramme name, study type	
1	1. E2507 Digital Archives					(E20) Con Academic	puting and Control Engineering, Maste Studies	er	
1.							ware Engineering and Information Tec demic Studies	hnologies,	
2.	DRNI02	DRNI02 Selected Topics in Advanced Software Architecture			hitecture	(E20) Con Academic	puting and Control Engineering, Docto Studies	oral	
3.	DRNI06	DRNI06 Selected Topics in Digital Archives				(E20) Computing and Control Engineering, Doctoral Academic Studies			
4.	DRNI10	DRNI10 Selected Topics in E-Government				(E20) Con Academic	puting and Control Engineering, Docto Studies	oral	
5.	5. DRNI13 Selected Topics in Scientific-research Activity managament					ity	(E20) Con Academic	puting and Control Engineering, Docto Studies	oral
Rep	oresentative	reffere	nces (minin	num 5, not more tha	an 10)				
1.	Vukobrat	ović, M.	Borovac, I	B., Surla, D., Stokić	, D., B	iped Locomotic	n, Monogra	oh, Springer-Verlag, 1990.	
2.			., Lebesgue		-Cuts A	Approach for Fi	nding the He	eight of the Membership Function, Fuzz	y Sets and
3.				M., Surla, D., On F 69-293, 1999.	Reducir	ng Numerical C	omplexity of	Complex Robots Dynamics, Journal o	f Intelligent
4.			kobratović, volume 16,		eration	of Dynamic Mo	odels of Con	nplex Robotic Mechanisms in Symbolic	Form,
5.				Application of PSI- 03-212 (1992).	-transfo	orm for Determi	ning a Near	- Optimal Path in the Presence of Poly	hedral
6.			D., The Set 32. (1991).		itions fo	or a two-DOF L	inkage in th	e Presence of Obstacles , Z. Angew. N	lath. Mech.
7.				njović, Z., Planning -2, pp. A.287-A.295		jectories for the	Motion of F	lanar Mechanisms in the Presence of	Obstacles,
8.	Borovac,	B., Vuk	obratović, N	M., Surla, D., An Ap	proach	to Biped Cont	rol Synthesi	s, Robotica (1989) Vol. 7. 231-241.	
9.				Konjović, Z., Borov s, System Science				ntrol Synthesis for Artificial Anthropom	orphic
10.		-		rmination of the Co 363-A.369. (1988).	ollision-	-Free Region fo	or a Two-Lin	Mechanism in the Presence of Obsta	cles,
Sur	nmary data	for teac	her's scien	tific or art and profe	essiona	al activity:			
Quot	ation total:				52				
Total	of SCI(SS	CI) list p	apers :		10				
Current projects : Domestic : 1 International :					International: 0				



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

Study Programme Accreditation



Computing and Control Engineering



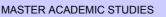
Science, arts and professional qualifications

Name and last name:			Suvajdžin Rakić B. Zorica					
Acad	lemic title:				Assistant Pro	fessor		
		itution v	vhere the te	eacher works full time and		chnical Scie	nces - Novi Sad	
	ng date:				01.12.1998		11.6	
	ntific or art f		Vasa	Institution	Applied Com	puter Scienc	ce and Informatics	
- 10010	lemic carie	•	Year	Institution	- Novi O	1	Field	
	lemic title el	ection:	2008	Faculty of Technical Sci			Applied Computer Science and Informatics Computer Science	
	ster thesis		2000	Faculty of Technical Sci			Applied Computer Science and Informatics	
	elor's thesis		1998	Faculty of Technical Sci			Applied Computer Science and Informatics Applied Computer Science and Informatics	
				acher in the accredited stu			Applied Computer Science and Illionnates	
Liot		cing no	id by the te	doner in the dooredica ste	ady programme			
	ID	Course	e name			Study pro	ogramme name, study type	
1.	E225	Opera	ting System	ns		Academic		
		·				(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
						Academic		
2.	E234	Compi	lers			Academic		
						(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
3.	EE301 Operating Systems and Competitive Program			ammina		asurement and Control Engineering, uate Academic Studies		
<u> </u>		Operating Systems and Competitive Progra				(E10) Power, Electronic and Telecommunica Engineering, Undergraduate Academic Stud		
						(F10) Eng Studies	ineering Animation, Undergraduate Academic	
4.	H207	Progra	ımming and	Programming Languages	, ,		chatronics, Undergraduate Academic Studies	
						Undergrad	tal Traffic and Telecommunications, uate Academic Studies	
5.	ISIT12	Osnov	e informaci	onih sistema		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
6.	ISIT22	Osnov	e baza pod	ataka		(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
7.	SE0034	Compi	lers			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Master Studies	
8.	E2505	Multim	iedia Systei	ms		(ES0) Power Software Engineering, Master Academic Studies		
						_	ineering Animation, Master Academic Studies	
							tware Engineering and Information Technologies, ademic Studies	
9.	F402	Electro	onic Publish	ing		(F00) Gra Studies	phic Engineering and Design, Master Academic	
10.	DRNI08	Select	ed Topics i	n Information Systems		(E20) Con Academic	nputing and Control Engineering, Doctoral Studies	
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)				
1.		for geon	netric nonlii				M.: MPI–CUDA parallelization of a finite-strip neering Software, 2011, Vol. 42, No 5, pp. 273-	
2.				lajduković, A Structure Ed e 3, Number 1, Beograd,			osing Assistant, Computer Science and	
3.				Suvajdžin, Žarko Živanov 1, Novi Sad, 2003., pp 53		ented progra	am editing - habit or necessity, Novi Sad Journal	

SITAS STUD

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

Study Programme Accreditation



Computing and Control Engineering



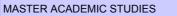
Re	epresentative refierences (minimum 5, not more than 10)							
4.	Hajduković M., Suvajdžin Z., Živanov Ž. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics, Novi Sad Journal of Mathematics, 2003, Vol. 33, No 1, pp. 67-73, ISSN 1450-5444, UDK: 51							
5.	Rakić P., Stričević L., Suvajdžin Rakić Z.: Statically Typed Matrix: in C library, 5. Balkan Conference in Informatics, Novi Sad: ACM, 16-20 Septembar, 2012, pp. 217-222							
6.	Milašinović D., Živanov Ž., Rakić P., Suvajdžin Rakić Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization							
7.	Suvajdžin Rakić Z., Rakić P.: Computers and E	ducation, 1. VIPSI, N	epoznato, 3-4 Ap	ril, 2009, ISBN 86-7466-117	7-3			
8.	Zorica Suvajdžin, Miroslav Hajduković, Program Conference 2006, Brooklyn NY, April 2006, abs			grammers, The ASEE Mid-	Atlantic Spring			
9.	Zorica Suvajdžin, Miroslav Hajduković, Towards Conference on Programming Languages and C							
10.	Rakić P., Živanov Ž., Suvajdžin Rakić Z., Stričev Network Applications, 9. International Symposiu							
Sui	mmary data for teacher's scientific or art and profes	ssional activity:						
Quo	tation total :	0						
Tota	I of SCI(SSCI) list papers :	0						
Current projects: Domestic: 0 International: 0					0			

Strana 166 Datum: 18.12.2012



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:			Tabaković N. Slobodan				
Acad	lemic title:				Assistant Professor			
		titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad	
	ng date:				10.10.2000			
Scier	ntific or art f	ield:			Machine Tools, Flexible Technological Systems and Automatization			
Acad	lemic caries	er	Year	Institution			Field	
Acad	lemic title e	lection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
PhD	thesis		2008	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Bach	elor's thesi	S	1998	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	P1402	CAD/C	CAE/CAM i	CIM Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic	
2.	P1407	Machi	ne Tools De	esigning		(P00) Prod Studies	duction Engineering, Undergraduate Academic	
						(P00) Prod Studies	duction Engineering, Undergraduate Academic	
3.	. P1410 Virtual Product Designing				(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies			
4.	P301	Automation in Production Engineering					duction Engineering, Undergraduate Academic	
5.	P307	7 Automated Flexible Technologial Systems					duction Engineering, Undergraduate Academic	
6.	ZR408A	Safety	at work on	the machines for process	ing	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	P1405	Conte	mporary Ap	proach to Product Design	ing	(PM0)Pro	oduction Engineering, Master Academic Studies	
8.	PR408	Funda Machii		Protection for Operation of	on Processing	(PM0) Production Engineering, Master Academic Studies		
9.	IM2118	Funda	mentals of	CAD / CAM technology		(I20) Engineering Management, Master Academic Studies		
10.	P307A	Flexibl	e technolog	gical systems		(E20) Computing and Control Engineering, Master Academic Studies		
11.	PAUP1	Autom	atization in	plastic		(PM0) Production Engineering, Master Academic Studies		
12.	PP102	Precis	ion of mach	ine tools		(PM0) Production Engineering, Master Academic Studies		
13.	PP110	The dy	namics of ı	micro machining systems		(PM0) Pro	oduction Engineering, Master Academic Studies	
14.	PP2I12	Design	n of prosthe	tic devices		· /	medical Engineering, Master Academic Studies	
15	CMO	Motho	de and coff	ware tools for computer of	ded design	` /	oduction Engineering, Master Academic Studies	
15. 16.	SM2 ZRMI1A			ware tools for computer ai		,	oduction Engineering, Master Academic Studies	
				se and human vibration in	ıı ıduəli y	(ZU I) Sale	ety at Work, Master Academic Studies	
Kep				num 5, not more than 10)			on of words don Mark: T. J. W. W.	
1.	kinematio	s based	on CAD w	orkpiece model, Machine	Engineering, V	ol. 2, No 1-2	, ,,,,	
2.		endopro					ems in the design process of modular, revision IE, 2011, Vol. 9, No 2/2011, pp. 97-102, ISSN	
3.				baković S.: Matematical N - AJME, 2010, Vol. 8, No			g Life Determination, Academic Journal of I 1583-7904	
4.				otić D., Tabaković S.: The 2, pp. 121-235, ISSN 035		ounch press	ses programming, Journal for Technology of	
5.		kih man					dnim predmetima ili alatima kod mašina alatki i lektualne svojine, 2012, UDK: Broj patenta	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	Representative refferences (minimum 5, not more than 10)							
6.	TABAKOVIĆ, S., ZELJKOVIĆ, M., GATALO, R.: A contribution to workspace analysis of machine tools based on parallel mechanism, Journal of Machine Engineering, 2007, Vol. 7, No. 1, str. 80- 90, ISSN 1895-7595.							
7.	Tabaković S., Zeljković M., Živković A., Movrin D., Grujić J.: Development of the endoprosthesis of the femur according to the characteristics of a specific patient with using modern methods for product design and rapid prototyping, Journal for Technology of Plasticity, 2012, Vol. 37, No 2, pp. 195-208, ISSN 0354-3870							
8.	Tabaković, S., Gatalo, R., Konjović, Z.: Object-Oriented Approach to Design Process Automation, The 2nd Regional Symposium "Young People and the Multidisciplinary Research", Timisoara, Romania, 1999., pp. 462 – 468, ISBN 973-585-041-9							
9.	Tabaković, S., Gatalo, R., Zeljković, M.: Analiza tačnosti aproksimacije profila pri generisanju upravljačkih programa za CNC mašine primenom programskog sistema PRO/Engineer, Zbornik radova, VIII Međunarodna konferencija MMA 2003 - Fleksibilne tehnologije, Novi Sad, 2003. str. 117, 118,							
10.	Tabaković, S.; Gatalo, R.; Zeljković, M.: Designing machine tools based on parallel kinematics using contemporary engineering and mathematical methods the 15th international DAAAM symposium, "Intelligent Manufacturing & Automation: Globalization – Technology – Men - Nature" 3 – 6th November 2004, Vienna, Austria, pp. 453-454, ISSN 1726-9679, ISBN 3-901509-42-9							
Sui	mmary data for teacher's scientific or art and profe	essional activity:						
Quo	tation total :	0						
Tota	l of SCI(SSCI) list papers :	0						
Curr	ent projects :	Domestic :	1	International :	0			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Name and	d last na	Name and last name:			Temerinac R. Miodrag				
Academic title:			Full Professor						
Name of t starting d		itution v	here the te	acher works full time and	-				
Scientific	or art fi	eld:			Computer Engineering and Computer Communication				
Academic	c cariee	r	Year	Institution			Field		
Academic	c title ele	ection:	1997	Faculty of Technical Sci	ences - Novi S	ad	Computer Engineering and Computer Communication		
PhD thes	is		2003	School of Electrical Engi	ineering - Beog	ırad	Electrical and Computer Engineering		
Magister	thesis		1979	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering		
Bachelor's	s thesis	;	1976	School of Electrical Engi	ineering - Beog	ırad	Electrical and Computer Engineering		
List of cou	urses be	eing hel	d by the tea	acher in the accredited stu	udy programme	s			
ID		Course	e name			Study pro	gramme name, study type		
1.	E240	Eunda	montals of l	DSP Architecture and Alg	orithms 1	(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
'.	L240	Tunua	ineritais or i	DOF Architecture and Alg	Ontrinis 1		asurement and Control Engineering, uate Academic Studies		
2. E	<u>=</u> 2401	Funda	mentals of I	DSP Architecture and Alg	orithms 2	Academic			
3. F	RT510	-		SP platforms in computer		Academic			
		communications				Master Aca	Software Engineering and Information Technologies, Academic Studies		
4. F	RT511 Practicum in computer engineering and co			outer engineering and con	omputer Academic				
		communications			(SE0) Software Engineering and Information Technologic Master Academic Studies				
	Selected Chapters in Telecommunications			and Signal	Academic				
5. DA	AU001	Proces		s in releasing the transfer of	and Oignai	(OM1) Ma	chatronics, Doctoral Academic Studies thematics in Engineering, Doctoral Academic		
6 5	DT04	Coloot	ad Chantar	in Computer Communic	otiono	Studies	struct Work Doctoral Academia Studies		
	RT04 RT07	Develo	pment and	s in Computer Communication of multimeters in the computer Communication of multimeters in the communication of multimeters in the communication of multimeters in the communication of the communicat		(Z01) Safety at Work, Doctoral Academic Studies (E20) Computing and Control Engineering, Doctoral Academic Studies			
		algorith		num 5, not more than 10)		Academic	Studies		
				,	norings 2004				
				DSP, S. Berber i M. Tem		- N. T114	0005		
		5-		V. Kovačević, M. Popović	c, ivi. i emerina	c, in. Teslic,	2000		
				I, M. Temerinac, 1988					
				Milošević, Ž. Trpovski, M.					
5. Vo	ol. 60, N	o 3, pp	1108-1120), UDK: 10.1109/TSP.201	1.2178602		Applications", Elsevier Science Publishers, 2012,		
o. An	nwendu	ngen", i	t - İnformati	on Technology 45(6): (20	03)		agner, " Eine neue DSP Plattform für Multimedia-		
				H. and Temerinac M., "No 2, pp. 50-55	eues Konzept f	ür drahtlose	High-End-Audioübertragung", Elektronik,		
8. fur	nctional	testing		sactions on Consumer El			etection system for DTV and set-top box o 3, pp. 1311-1319, ISSN 0098-3063, UDK:		
							reaming in short range wireless networks, IEEE Vol. 55, No 2, pp. 486-491, ISSN 0098-3063		
10. Me	ethodolo	ogy, JO	URNAL OF		E AND TECHN		tem Validation Based on the Black Box Testing CHINA, 2009, Vol. 2009, No 7(4), pp. 1-4, UDK:		
Summa	ry data	for teac	her's scient	tific or art and professiona	activity:				
Quotation	total :			0					

ASTRAS STUDIOS

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Total of SCI(SSCI) list papers :	22				
Current projects :	Domestic :	1	International :	0	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Science, arts and professional qualifications

Nam	e and last n	ame:			Teslić Đ. Niko	ola	
	lemic title:				Full Professo		
Nam	e of the inst	itution v	vhere the te	eacher works full time and	-		
	ng date:						
	ntific or art f				Computer En	gineering ar	nd Computer Communication
Acad	lemic carie	er	Year	Institution			Field
Acad	lemic title e	ection:	2011				Computer Engineering and Computer Communication
PhD	thesis		1999	Faculty of Technical Sci			Computer Engineering
Ť	ster thesis		1997	Faculty of Technical Sci			Computer Engineering
	elor's thesi		1995	Faculty of Technical Sci			Computer Engineering
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es I	
	ID	Course	e name			Study pro	ogramme name, study type
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
	·					(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies
1.	E227A	Logic Design of Computer Systems 1					asurement and Control Engineering, uate Academic Studies
						(E10) Pow	er, Electronic and Telecommunication g, Undergraduate Academic Studies
		E244 Selected Chapters in Physical Architecture				(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
2.	E244				Design		asurement and Control Engineering, luate Academic Studies
							er, Electronic and Telecommunication g, Undergraduate Academic Studies
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies
		Television and Image Processing Software				Ùndergrad	asurement and Control Engineering, uate Academic Studies
3.	RT50				1	Undergrad	tware Engineering and Information Technologies, uate Academic Studies
						(SEL) Sof Loznica, U	tware Engineering and Information Technologies - indergraduate Academic Studies
							er, Electronic and Telecommunication g, Undergraduate Academic Studies
4.	EK465	Archite	ectures of d	igital signal processors			er, Electronic and Telecommunication g, Undergraduate Academic Studies
5.	SERT02	Basics	of compute	er engineering			tware Engineering and Information Technologies, uate Academic Studies
6.	RT56	Televio	sion and Im	age Processing Software	2	(E20) Con Academic	nputing and Control Engineering, Master Studies
J.	1310	i CiGVI	J.O. GIIG III	ago i roccosing conware	_	Master Aca	tware Engineering and Information Technologies, ademic Studies
7.	RT511			puter engineering and con	nputer	(E20) Con Academic	nputing and Control Engineering, Master Studies
<i>i</i> .	1311	commi	unications				tware Engineering and Information Technologies, ademic Studies
8.	DRT04	Select	ed Chapter	s in Computer Communica	ations		ety at Work, Doctoral Academic Studies
9.	DRT04	Select	ed Chapter	s in television software		(E20) Con Academic	nputing and Control Engineering, Doctoral Studies
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)			
1.	Arhitektu	re i algo	ritmi DSP 1	, Vladimir Kovačević, Miro	oslav Popović,	Miodrag Tei	merinac, Nikola Teslić
2.			adataka iz k Kovačević	ogičkog projektovanja. rač	unarskih sister	na I : projek	tovanje digitalnih sistema. Mihajlo Katona, Nikola
	-,	-	-				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Re	presentative refferences (minimum 5, not more th	an 10)						
3.	Z. Šarić, S. Jovičić, V. Kovačević, N.Teslić, D. MICROPHONE ARRAY, filled 21.november, 20			OR SPEAKER LOCALIZATIO	ON USING			
4.	D. Kukolj , V. Kovačević, N.Teslić, I. Papp, TEC USING DUAL MICROPHONE SYSTEM, filled			AL ESTIMATION FROM SC	UND SOURCE			
5.	Z. Šaric, S. Jovičić, V. Kovačević, N.Teslić, I. Papp, TECHNIQUE AND SYSTEM FOR AUTOMATIC GAIN CONTROL (AGC) USING MICROPHONE ARRAY, filled 3.november, 2006, No. P-2006/0611.							
6.	Majstorović D., Čelanović I., Teslić N., Čelanović N., Katić V.: Ultra-Low Letency Hardware-in-the-Loop Platform for Rapid Validation of Power Electronics Designs, IEEE Transaction on Industrial Electronics, 2011, Vol. 58, No 10, pp. 4708-4716, ISSN 0278-0046, UDK: http://dx.doi.org/10.1109/TIE.2011.2112318							
7.	Pap I., Šarić Z., Jovičić S., Teslić N.: Adaptive microphone array for unknown desired speaker's transfer function, JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, 2007, Vol. 122, No 2, pp. 44-49, ISSN 10.1121/1.2749077, UDK: http://dx.doi.org/10.1121/1.2749077							
8.	Katona M., Kaštelan I., Peković V., Teslić N., T line, IEEE Transactions on Consumer Electron 10.1109/TCE.2011.5735506				final production			
9.	Pap I., Šarić Z., Teslić N.: Hands-free Voice C No 2, pp. 606-614, ISSN 0098-3063, UDK: doi			ons on Consumer Electronics	s, 2011, Vol. 57,			
10.	Marijan D., Zlokolica V., Teslić N., Peković V., Transactions on Consumer Electronics, 2010,							
Sui	mmary data for teacher's scientific or art and profe	essional activity:						
Quo	tation total :	0			·			
Tota	l of SCI(SSCI) list papers :	6						
Current projects: Domestic: 2 International: 10								



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	Name and last name:				Vidaković P. Milan			
	demic title:				Associate Professor			
_		titution v	vhere the te	acher works full time and				
	ing date:				20.01.1998			
	ntific or art f			1 000	Applied Computer Science and Informatics			
	demic carie		Year	Institution	- Nord O	1	Field	
	demic title el	lection:	2009	Faculty of Technical Sci			Applied Computer Science and Informatics	
	thesis		2003 1998	Faculty of Technical Sci Faculty of Technical Sci			Applied Computer Science and Informatics Applied Computer Science and Informatics	
	ister thesis nelor's thesis	<u> </u>	1995	Faculty of Technical Sci			Applied Computer Science and Informatics Applied Computer Science and Informatics	
		_		acher in the accredited st			Applied Computer Science and Illionnates	
	ID		e name				ogramme name, study type	
						Academic	ver Software Engineering, Undergraduate	
1.	E239A	Web Programming				(MR0) Me	asurement and Control Engineering, uate Academic Studies	
						Èngineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
							nputing and Control Engineering, Undergraduate Studies	
2.	E2K41	(41 Distributed Artificial Intelligence and Intellige			ent Agents	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
	LZICHT						tware Engineering and Information Technologies, luate Academic Studies	
							tware Engineering and Information Technologies - indergraduate Academic Studies	
3.	F501	WEB Design			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies		
Ŭ.	1 001	WEBL				(F10) Eng Studies	ineering Animation, Undergraduate Academic	
4.	GI211	Geoint	formatics			(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
5.	GI111	Inform	ation techn	ologies in geodesy		Studies	desy and Geomatics, Undergraduate Academic	
6.	SE0006	Ohiect	oriented n	rogramming 1			tware Engineering and Information Technologies, uate Academic Studies	
0.	OLOGOO	ОБЈССК	. Onemed pi	ogramming 1			tware Engineering and Information Technologies - indergraduate Academic Studies	
						Studies	duction Engineering, Undergraduate Academic	
7.	SE239A	Web p	rogrammin	9			tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Software Engineering and Information Technologi Loznica, Undergraduate Academic Studies		
8.	E2501	Electro	onic Payme	nt Systems		Academic		
						Master Aca	tware Engineering and Information Technologies, ademic Studies	
9.	EP007	Docun	nent and co	ntent management		Studies	neering Management, Specialised Professional	
	557	_ 55411				(IB0) Engineering Management - MBA, Specialised Professional Studies		
10.	AD0008	Web d	esign in Ard	chitecture		Architectur	ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies	
11.	DRNI03	Select	ed Topics i	n Internet-Based Systems	i	(E20) Con Academic	nputing and Control Engineering, Doctoral Studies	

NAS STUDIO

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	me name, study type					
12.	DRNI05	Selected Topics in Software Standar	rdization and Quality	(E20) Computin Academic Studie	g and Control Engineering, les	Doctoral				
				(F20) Engineeri	ng Animation, Doctoral Acad	demic Studies				
13.	FDS152	Selected Topics in Computer Graph	ics	(F00) Graphic E Studies	ingineering and Design, Doo	toral Academic				
14.	DAU014	Salacted Taning in Computing		(E20) Computin Academic Studie	g and Control Engineering, les	Doctoral				
14.	DA0014	Selected Topics in Computing		(OM1) Mathema Studies	atics in Engineering, Doctora	al Academic				
15	DDNI46	Cologiad Topics in Floritonia Dusing		(E20) Computin Academic Studie	g and Control Engineering, les	Doctoral				
15.	DRNI16	Selected Topics in Electronic Busine	:55	(OM1) Mathema Studies	atics in Engineering, Doctora	al Academic				
16.	DRNI18	Selected Topics in Distributed/Mobil	e computing	(E20) Computin Academic Studie	g and Control Engineering, les	Doctoral				
		·		(F20) Engineering Animation, Doctoral Academic Studies						
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.		ć, M., Milosavljević, B., "Internationalis onal Unicode Conference, Orlando, US			ystem", Proceedings of the	28th				
2.		ć, M., Sladić, G., Zarić, M., "Metadata ice on Software Engineering and Appl								
3.		ć M., Sladić G., Komazec S., "Sistemi za informacione tehnologije i multimed	. , ,	,	, , ,	i", Info M:				
4.	System E	5, M., Zubić, T., Milosavljević, B., Pupo BISIS", Proceedings of the Internation of Macedonia, June 1-6, 2004., pp. 6	al Conference on Distr							
5.	7th IAST	5, M., Sladić, G., Konjović, Z., "Securit ED International Conference on Softw , pp. 128-133.								
6.		ević B., Vidaković M., Komazec S. and ed Data Models", In Software Enginee				ve Systems with				
7.		ć, M., Konjović, Z., "EJB Based Intelligare Engineering and Applications (SE				nal Conference				
8.	Vidakovid	ć M., "Agentska okruženja", Zadužbii	na Andrejević. Beogra	d, 2007, ISBN: 9-	788672-446210					
9.	Milosavlje	ević B., Vidaković M., Java i Internet p	orogramiranje, FTN izd	avaštvo, 2007., IS	SBN 978-86-7892-047-9					
10.	Okanović Kopaonik	D., Vidaković M., "Upotreba JMX mle z 2007.	et servisa za ažuriranje	e verzija aplikacija	", Zbornik radova YuInfo 20	07 (CD),				
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
Quot	ation total :		119							
Total	of SCI(SS	CI) list papers :	7							
Curre	Current projects : Domestic : 1 International : 0									



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

Study Programme Accreditation





Science, arts and professional qualifications

Name and last name:					Vukmirović M. Srđan			
Academic title:					Assistant Professor			
Name of the institution where the teacher works full time and				acher works full time and	Faculty of Technical Sciences - Novi Sad			
starting date:					20.11.2000			
Scientific or art field:					Automatic Co	Automatic Control and System Engineering		
Acad	lemic carie	er	Year	Institution	Field			
Acad	lemic title e	lection:	2012	Faculty of Technical Sci	iences - Novi Sad		Automatic Control and System Engineering	
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Magi	ster thesis		2004	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Bach	elor's thesi	s	2000	Faculty of Technical Sci	ences - Novi S	nces - Novi Sad Automatic Control and System Engineering		
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study programme name, study type		
1.	E126	Syster	n Control, M	Modeling and Simulation			er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
	F222	Cuatan	o Madalina	and Cinculation			chnical Mechanics and Technical Design, uate Academic Studies	
2.	E232	System Modeling a		and Simulation		(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
							tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
3.	GI303A	Distrib	uted Syster	ns in Geomatics		(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
4.	H213	System Modelling and Simulation 1				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
		,				(H00) Med	chatronics, Undergraduate Academic Studies	
5.	E2312	Software design for SCADA systems			(E20) Computing and Control Engineering, Under Academic Studies			
J.	LZJIZ					(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
6.	ESI004	Cloud	Computing	in power systems		(ES0) Power Software Engineering, Undergraduate Academic Studies		
7.	ESI008	Develo	pment of C	cloud application in power	systems	(ES0) Power Software Engineering, Undergraduate Academic Studies		
8.	SEAU02	SCAD	A Software			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
		Distributed Control Systems			(E20) Computing and Control Engineering, Master Academic Studies			
9.	AU502			ol Systems		(MR0) Measurement and Control Engineering, Master Academic Studies		
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
10.	H301	Syster	n Modeling	and Symulation		(H00) Mechatronics, Master Academic Studies		
11.	E2533	Discre	te event sin	nulation		(E20) Con Academic	nputing and Control Engineering, Master Studies	
40		Softwa	Software Algorithms in Supervisory Control a		and Data	(E20) Computing and Control Engineering, Master Academic Studies		
12.	E2535	Acquisition Systems			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
13.	ESI027	7 Advanced cloud computing in power systems			ns	(ES0) Power Software Engineering, Master Academic Studies		

STEETING STUDIES

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name Study programme name, study type							
14.	ESI032	Smart grid applications in Cloud (ES0) Power Software Engineering, Master Academic Studies				Academic			
15.	ESI038	038 Service oriented architectures in Smart Grid (ES0) Power Software Engineering, Master Academic Studies							
16.	DAU006	Selected Chapters in Modeling and Spynamic Systems	Simulation of	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral			
17.	DAU018	Selected Chapters in Distributed Co	ntrol Systems	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral			
18.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at	Work, Doctoral Academic S	tudies			
Rep	resentative	refferences (minimum 5, not more th	an 10)						
1.	Kligije Miroslav: Gvozdenge Dusan: Vijkmirovije Srdian Llee of Neural Networks for modeling and predicting boiler's operating								
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883								
3.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679								
4.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64								
5.	D. Capko, A. Erdeljan, S.Vukmirovic, I. Lendak, A HYBRID GENETIC ALGORITHM FOR PARTITIONING OF DATA MODEL IN DISTRIBUTION MANAGEMENT SYSTEMS, Information technology and control ISSN: 1392-124X, pp. 316 - 322								
6.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, A Genetic Algorithm Approach for Utility Management System Workflow Scheduling, Information technology and control ISSN: 1392-124X, pp. 310 - 316								
7.	Ilié S. Vukmirović S. Erdelian A. Kulić E. Hybrid Artificial Neural Network System for Short-Term Load Forecasting, Thermal								
8.	Vukmirović S., Erdeljan A., Lendak I., Čapko D.: A novel software architecture for Smart Metering systems, Journal of Scientific and Industrial Research (JSIR), 2010, Vol. 2010, No 12, pp. 937-941, ISSN 0022-4456								
9.	Vukmirović S., Vujić G., Vujić B., Jovičić N., Jovičić G., Babić M.: Experimental and Artificial Neural Network approach for forecasting of traffic air pollution in urban areas: the case study of Subotica, Thermal Science - International Scientific Journal, 2010, Vol. 14, pp. 79-87, ISSN 0354-9836								
10.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456								
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Total	of SCI(SSC	CI) list papers :	12						
Curre	Current projects : Domestic : 2 International : 0								



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

Study Programme Accreditation



Computing and Control Engineering



Science, arts and professional qualifications

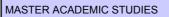
Name and last name:					Zeljković V. Milan			
Academic title:					Full Professor			
					Faculty of Technical Sciences - Novi Sad			
starting date:					15.11.1977			
Scier	Scientific or art field:					Machine Tools, Flexible Technological Systems and Automatization		
Acad	emic carie	er	Year	Institution		Field		
Acad	emic title e	lection:	2007	Faculty of Technical Sci	ences - Novi Sad		Machine Tools, Flexible Technological Systems and Automatization Processes Design	
PhD	thesis		1996	Faculty of Technical Sci	ences - Novi Sad		Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Magi	ster thesis		1984	Faculty of Technical Sci	ences - Novi Sad		Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Bach	elor's thesi	s	1977	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design	
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	gramme name, study type	
1.	P1402	CAD/C	CAE/CAM i	CIM Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic	
2.	P1407	Machi	ne Tools De	esigning		(P00) Pro	duction Engineering, Undergraduate Academic	
						(P00) Pro	duction Engineering, Undergraduate Academic	
3.	P1410	Virtual	Product De	esigning		(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
4.	P301	Automation in Production Engineering				(P00) Pro Studies	duction Engineering, Undergraduate Academic	
5.	P304	Processing and Technological Systems				(P00) Prod Studies	duction Engineering, Undergraduate Academic	
6.	P307	Automated Flexible Technologial Systems				(P00) Prod Studies	duction Engineering, Undergraduate Academic	
7.	ZR308A	Security and Safety Equipment for working				(Z01) Safe	ety at Work, Undergraduate Academic Studies	
8.	ZR408A	Safety at work on the machines for processing			ing	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
9.	P1405	1 7 11				(PM0)Pro	duction Engineering, Master Academic Studies	
10.	PR408	Fundamentals on Protection for Operation on Processir				(PM0)Pro	duction Engineering, Master Academic Studies	
11.	IM2118	Machines				(I20) Engir	neering Management, Master Academic Studies	
12.	P307A			gical systems		(E20) Computing and Control Engineering, Master Academic Studies		
13.	PP102	Precis	ion of mach	ine tools		(PM0) Production Engineering, Master Academic Studies		
14.	PP110			micro machining systems		(PM0) Production Engineering, Master Academic Studies		
15.	PP2I12		n of prosthe			(BM0) Biomedical Engineering, Master Academic Studies		
16.	DP001	Desigr Engine		arch Methods in Production	on	(PM0) Production Engineering, Master Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies		
17.	DP003	State a	and Develor FTS, and A	oing Trend in the Field of Lutomation of Designing P	rocesses	(M00) Mechanical Engineering, Doctoral Academic Studies		
18.	DP010	Workir	ng Systems			(M00) Mechanical Engineering, Doctoral Academic Studies		
19.	ZRD18A	Workir	ng Systems	ng and Experimental Tes	•	(Z01) Safety at Work, Doctoral Academic Studies		
20.	ZRD235	Syster and he	nic regulation	on in the field of occupation		(Z01) Safety at Work, Doctoral Academic Studies		
21.	ZRD238	State and trends of development safety and health at work in the area mechanical engineering				(Z01) Safety at Work, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)				
1.				erimental and Computer A			eed Spindle Assembly behaviour, CIRP Annals -	

^{2.} Zeljković M., Gatalo R.: Experimental and Computer Aided Analysis of High-Speed Spindle Assembly behaviour, CIRP Annals Manufacturing Technology, 1999, Vol. 48, No 1, pp. 325-328, ISSN 0007-8506



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

Study Programme Accreditation



Computing and Control Engineering



Re	presentative refferences (minimum 5, not more th	an 10)							
2.	Gatalo R., Hodolič J., Zeljković M., Milošević V., Konjović Z.: Achievements in the development and future development of SAPOR-S systems for automatic programming of NC Lathes , Robotics and Computer-integrated Manufacturing, 1988, Vol. 4, No 1/2, pp. 91-102, ISSN 0736-5845								
3.	Gatalo R., Rekecki J., Hodolič J., Borojev Lj., Zeljković M., Milošević V., Konjović Z., Malbaški D.: Automatic design of the technological process for NC lathes by the use of SAPOR-S system, International Journal of Production Research, 1983, Vol. 21, No 2, pp. 197-213, ISSN 0020-7543								
4.	Todić V., Zeljković M., Tepić J., Milošević M., Lukić D.: Techno-economic method for evaluation and selection of flexible manufacturing systems, Metalurgija, 2012, Vol. 51, No 3, ISSN 0543-5846								
5.	Antić A., Petrović P., Zeljković M., Kosec B., Hodolič J.: The influence of tool wear on the chip-forming mechanism and tool vibrations, Materijali in tehnologije, 2012, Vol. 46, No 3, pp. 279-285, ISSN 1580-2949								
6.	Milojević Z., Vićević M., Zeljković M., Navalušić S.: Methodology of the bone tissue diagnostic images processing, Academic Journal of Manufacturing Engineering – AJME, 2012, Vol. 10, No 3, pp. 63-70, ISSN 1583-7904								
7.	Milojević Z., Navalušić S., Zeljković M., Vićević M., Beju L.: Haptic interaction program systems development as a part of virtual environment, Academic Journal of Manufacturing Engineering – AJME, 2011, Vol. 9, No 2/2011, pp. 61-66, ISSN 1583-7904								
8.	Tabaković S., Živković A., Grujić J., Zeljković M.: Using CAD/CAE software systems in the design process of modular, revision								
9.	Živković A., Zeljković M., Tabaković S.: Matematical Model for the Roller Bearing Life Determination, Academic Journal of Manufacturing Engineering – AJME, 2010, Vol. 8, No 3/2010, pp. 108-115, ISSN 1583-7904								
10.	Čiča Đ., Zeljković M., Lakić-Globočki G., Sredanović B., Borojević S.: Identification of contact parameters of spindle-holder-tool assembly using artification neural networks, 11. International Scientific Conference "Advanced Production Technologies" - MMA, Novi Sad: Fakultet tehničkih nauka, 20-21 Septembar, 2012, pp. 57-60, ISBN 978-86-7892-419-4								
Sur	Summary data for teacher's scientific or art and professional activity:								
Quot	tation total :	22							
Tota	l of SCI(SSCI) list papers :	6							
Curr	ent projects ·	Domestic :	1	International ·	ln				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering



Science, arts and professional qualifications

Nam	e and last n	ame.			Živanov S. Ža	arko			
Academic title:					Assistant Professor				
Name of the institution where the teacher works full time and									
starting date:					01.01.2001				
Scientific or art field:					Applied Computer Science and Informatics				
Academic carieer Year Institution					Field		Field		
Acad	demic title e	lection:	2012				Applied Computer Science and Informatics		
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
Magi	ister thesis		2007	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics		
Bach	nelor's thesis	S	2000	Faculty of Technical Sci	ences - Novi S	nces - Novi Sad Applied Computer Science and Infor			
List	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study programme name, study type			
1.	E217	Comp	uter Archite	cture		Academic			
						(ES0) Power Software Engineering, Undergraduate Academic Studies			
2.	E223A	Ohiect	t Programm	ina		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
	LZZUA	Object	rogramm	a		(ES0) Pov Academic	wer Software Engineering, Undergraduate Studies		
3.	E225	Opera	perating Systems			(E20) Computing and Control Engineering, Undergraduate Academic Studies			
						(ES0) Power Software Engineering, Undergraduate Academic Studies			
	E234	Compilers				(E20) Computing and Control Engineering, Undergraduate Academic Studies			
4.						(ES0) Power Software Engineering, Undergraduate Academic Studies (MP0) Measurement and Control Engineering			
						Ùndergrad	easurement and Control Engineering, luate Academic Studies		
5.	SZP01 Selected topics in Information technologies				Engineerin	ver, Electronic and Telecommunication ng, Specialised Professional Studies			
		Parallel and distributed architectures				Academic			
6.	E2529					(ES0) Pov Studies	wer Software Engineering, Master Academic		
	22020				Academic				
							(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
7.	E2534	Data Compression		n		(E20) Computing and Control Engineering, Master Academic Studies			
						(SE0) Software Engineering and Information Technologies, Master Academic Studies			
Rep			,	num 5, not more than 10)					
1.	računara						n računarskih vežbi za predmet ARhitektura		
2.	Rakić P., Milašinović D., Živanov Ž., Suvajdžin Z., Nikolić M., Hajduković M.: MPI–CUDA parallelization of a finite-strip program for geometric nonlinear analysis: A hybrid approach, Advances in Engineering Software, 2011, Vol. 42, No 5, pp. 273-285, ISSN 0965-9978						oftware, 2011, Vol. 42, No 5, pp. 273-285, ISSN		
3.	Hajduković M., Milašinović D., Nikolić M., Rakić P., Živanov Ž., Stričević L.: Scope of MPI/OpenMP/CUDA Parallelization of 3. Harmonic Coupled Finite Strip Method Applied on Large Displacement Stability Analysis of Prismatic Shell Structures, Computer Science and Information Systems (ComSIS), 2012, Vol. 9, No 2, pp. 741-761, ISSN 1820-0214								
4.	4. Živanov Ž., Rakić P., Hajduković M.: COLIBROS: Educational operating system, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 4, pp. 705-719, ISSN 1820-0214, UDK: 004.45								
5. Živanov Ž., Rakić P., Hajduković M.: Wireless sensor network application programming and simulation system, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 109-126, ISSN 1820-0214									

STUDIO ST

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Computing and Control Engineering

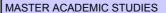


Re	Representative refferences (minimum 5, not more than 10)							
6.	Živanov Ž., Rakić P., Hajduković M.: Using code generation approach in developing kiosk applications, Computer Science and Information Systems (ComSIS), 2008, Vol. 5, No 1, pp. 41-59, ISSN 1820-0214							
7.	*****Autori: Suvajdžin Z., Hajduković M., Živanov Ž. Naziv: Character oriented program editing – habit or necessity? Naziv časopisa: Novi Sad Journal of mathematics							
8.	*****Autori: Hajduković M., Suvajdžin Z., Živanov Ž., Hodžić E. Naziv: A problem of program execution time measurement Naziv časopisa: Novi Sad Journal of mathematics							
9.	*****Milašinović D., Živanov Ž., Rakić P., Suvajdžin Z., Nikolić M., Hajduković M., Borković A., Milaković I.: A Finite-Strip Analysis of Nonlinear Shear-Lag Effect Supported by Automatic Visualization.							
10.	Rakić P., Milašinović D., Živanov Ž., Hajduković M.: MPI-CUDA Parallelisation of the Finite Strip Method for Geometrically 0. Nonlinear Analysis, 1. Internationale Conference on Parallel, Distributed and Grid Computing for Engineering, Pecs: Civil-Comp Press, , ISBN 978-1-905088-29-4							
Sur	Summary data for teacher's scientific or art and professional activity:							
Quot	ration total :	0						
Total of SCI(SSCI) list papers: 7								
Curr	ent projects :	International:	0					



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

Study Programme Accreditation



Computing and Control Engineering



Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources adequate for the study programme features and predicted students' number are provided. The time table of the Computing and Control Engineering study programme is organized in two shifts ensuring 2m2 of space per student.

Teaching is done in lecture halls, classrooms and specialised laboratories. The library houses more than 1000 library units relevant for the Computing and Control Engineering study programme. All the courses of the study programme are covered with adequate course literature, course books, and additional material which is available in time and in insufficient quantities for the regular teaching process. Sufficient IT support is also provided.

The Faculty of Technical Sciences has its own library and a reading room with enough space for every student in the lecture halls, classrooms and laboratories.

The Department for Computing and Control Engineering where the study programme of Computing and Control Engineering is performed has laboratories which are equipped in cooperation with renowned international companies: IBM, Cisco Systems, Allied Telesyn, Micronas, ABB, Philips, Sagem, OpenWave, AOL, Cirrus Logic, Danfoss, Nivelco, Feedback, Siemens, Leica, Trimble, Schneider electric.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES Computing and Control Engineering



Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through self-evaluation and external quality control. A long standing tradition of student survey should be emphasised here.

The quality control process is conducted through:

- -end of the term students survey for each course
- -graduate students survey at the graduation regarding the quality of the study programme and the logistic support. In addition, conditions for studying (classroom tidiness and neatness, etc...) are also evaluated. -survey of the teaching and non-teaching staff on the quality of the study programme and its logistic support. Here the work of the Dean's office, registrar's office, library, and other services at the Faculty is evaluated. In addition, conditions for studying (classroom tidiness and neatness, etc...) are also evaluated. The quality of the study programme is monitored by a committee formed by the heads of all chairs involved in the study programme and at least one student.