

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

STUDY PROGRAMME ACCREDITATION MATERIAL:

BIOMEDICAL ENGINEERING

MASTER ACADEMIC STUDIES

Novi Sad 2012. Prevod sa srpskog jezika:

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Bojanić M. Dubravka	
Čapko Lj. Darko	
Damnjanović S. Mirjana	
Dautović B. Staniša	
Delić D. Vlado	
Dragutinović D. Gordan	
Dudić P. Slobodan	
Erdeljan M. Aleksandar	
Grahovac M. Nenad	
Jorgovanović Đ. Nikola	
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Lendak I. Imre	
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Programme name	Biomedical Engineering
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Interdisciplinary
Scientific, proffesional or art field	Biomedical Engineering: Technical Sciences; Medical Sciences
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60
Academic degree, abbreviation	Master in Biomedical Engineering, M.Biom.Eng.
Study length	1
Programme implementation starting year	
Future course implementation starting year (for new programme)	2013
Number of students attending this programme	0
Planned number of students to be enrolled in this programme	32
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	
Web address containing programme information	http://www.ftn.uns.ac.rs



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Biomedical Engineering



MASTER ACADEMIC STUDIES

The study programme of the Graduate Academic Studies – Master in Biomedical Engineering is a continuation of the undergraduate academic studies of Biomedical Engineeringat the Faculty of Technical Sciences, University of Novi Sad. The study programme is realized based on contemporary scientific cognitions in the field of Biomedical engineering and Bologna recommendations.

Graduate Academic Studies – Master last one year during which students develop their Master Thesis. The academic degree obtained by students who successfully finish the programme is Master in Biomedical Engineering.

In order to ensure the high quality of studies, students at the master academic studies are required to publish at least one scientific or professional paper at a national or international conference in the field of interest for the final-master thesis. Planning, writing and publication of the paper is a good preparation for the students who want to continue their scientific work at the doctoral studies.

Study curriculums and programmes within this study programme enable students to acquire the necessary scientific and professional knowledge in the field of biomedical engineering and ensure their success in science-research work. The emphasis of the study programme is placed on working in smaller groups in contemporary equipped experimental laboratories and computer rooms appropriate for successful science-research work in the field of biomedical engineering.



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Standard 01. Programme Structure

MASTER ACADEMIC STUDIES

The name of the master academic study programme is Biomedical Engineering. Admission requirements are the completion of the undergraduate studies worth at least 240 ECTS and successfully passed entrance examination. The entrance examination i.e. Test of knowledge for the studies of Computing and Control Engineering (worth max 60 points) is considered successfully passed if the candidate has obtained at least 14 points.

Students have the obligatory and elective courses. The curriculum is formed with the intention to offer a considerable number of elective courses to students at the master academic studies. Elective courses are selected from a list of offered courses, but students can, with the agreement of the head of the study programme, choose any course taught at the Faculty of Technical Sciences or the University of Novi Sad, if they fulfill the required prerequisites in order to take the chosen course.

Courses are carried out in the form of lectures and practice. During the teaching process the emphasis isplaced on the student's independent work and research work as well as on their encouraged individualparticipation in the course realization. At lectures, while using the appropriate modern didactic-methodologicalmethods, students become familiar in the course subject matter and are offered explanations that help themunderstand it more easily. At practice classes, complementing the lectures, students solve specificengineering problems and are given examples which further illustrate the course matter. The practice classescan be auditory, computer or laboratory practice. At this level of studies, teachers insist on work in smallergroups so that they are able to pay more attention to each student.Student obligations may comprise of research papers, homework assignments, as well as smaller professional project assignments and publishment of scientific papers. Every activity of the student during the course process is evaluated and graded inaccordance with the rules established by the Faculty of Technical Sciences. Every course is worth a certain number of ECTS credits, and the whole study programme is completed when the student fulfills all the requirements assigned by the study programme and obtains at least 60 ECTS.





Study Programme Accreditation

Biomedical Engineering

Standard 02. Programme Objectives

MASTER ACADEMIC STUDIES

The goal of the study programme is to educate students for the profession of an engineer of biomedical engineering-master in accordance with the society's needs. The study programme Biomedical Engineering is designed to provide the competitions that are socially justified and useful. The objective of the study programme is fully in accordance with the main objectives and goals of the Faculty of Technical Sciences and is in line with the high educational standards proposed for qualified master engineers. This study programme is designed to offer the engineers of biomedical engineering-masters the knowledge that is in accordance with the highest European and world educational standards.



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Study Programme Accreditation

Biomedical Engineering

Standard 03. Programme Goals

MASTER ACADEMIC STUDIES

The objective of the study programme is to produce qualified engineers-masters who are highly competent and possess the necessary knowledge and skills needed in further education at the doctoral studies and are able to keep step with the fast technological development in the field of biomedical engineering. The study programme, additionally, encourages the development of creativity in the problem solving process and the ability of critical thinking, the development of team workskills and the acquisition of specific knowledge and skills. One of the specific objectives, which is in accordance with the objectives of professional education at the Faculty of Technical Sciences, is the development of students' awareness of the necessity for permanent education, professional development and advancement in the fast-advancing field of biomedical engineering. Another objective of the study programme is to provide education for experts who will be able to quickly adjust to team work as well as to present (in written form or orally) the scientific results to the professional and general public, especially through scientific and professional papers.



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Standard 04. Graduates' Competencies

After completing the study programme, students will be competent for the development, engineering, design and application of modern complex systems and their parts in the field of biomedical engineering. These competences include the possibility to continue education depending on inclinations and specific competences. An important segment is also the development of the ability of critical thinking, problemanalysis, solution synthesis, prediction of the behavior of the chosen solution with the clear understanding of advantages and disadvantages of the chosen solution. Students who successfully complete the study programme will be able to independently run experiments and measuring procedures in the field of biomedical engineering, to do statistical data processing, and toformulate and present adequate results and conclusions. Special emphasis is placed on the professionalethic development.

After completing the master academic studies at this study programme, students will have the following competences besides others:

-Ability of critical thinking and knowledge application in the field of biomedical engineering

-Ability to solve problems in the new or unknown environment within the scientific-professional field -Ability to integrate knowledge, solve complex problems, make conclusions based on the availableinformation containing reasoning about social and ethical responsibility -Ability to transfer knowledge in a clear, unambiguous manner and to report the knowledge to theprofessional and general scientific public

-Ability to successfully continue education at doctoral studies.

Besides the above stated, the studies insist on the intensive use of information-communicationtechnologies and available modern research equipment. Thus, master students at this level of studies will becompetent for tracking and application of novelties in the profession, as well as for successful and equalcooperation with colleagues in the specific professional field from educational, scientific, research oreconomic organizations in the country and the environment.



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Biomedical Engineering

Standard 05. Curriculum

MASTER ACADEMIC STUDIES

The curriculum of graduate academic Master studies in Biomedical Engineering is designed to fulfill all the defined objectives. In order to fulfill students' personal interests, curriculum for this study program contains considerable number of elective courses. Students concrete their knowledge and skills during master academic studies. Through elective courses they are able to pursue their interests in the areas profiled during their undergraduate studies. Finishing master academic studies student attains minimum 60 ECTS (which, addedto undergraduate academic studies, provides minimum 300 ECTS). 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. 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 centers, organizations which provide infrastructure support for innovative activities, industrial and public institutions.

A student's studies are completed with 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. 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 defense of the thesis. Master thesis is defended before a committee of at least three professors of whom at least one has to be from another department or faculty.



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Study Programme Accreditation

Biomedical Engineering

Course: Clinical medicine for engineers Course id: BMIM6 Number of ECTS: 6 Teachers: Kovačević R. Pavle, Mitić M. Igor Course status: Mandatory Number of active teaching classes (weekly) Lectures: Practical classes: Other classes: Other teaching types: Study research work: 6 0 0 0 0 Precondition courses None 1. Educational goal: Students should gain knowledge about several different disciplines of clinical medicine and the basic engineering tools used in clinical medicine 2. Educational outcomes (acquired knowledge): Students learn about importance of medical equipment and models used in order to make decisions about treatment of injuries and diseases in clinical disciplines. 3. Course content/structure: Diseases. The clinical picture of disease. The influence of drugs on organic systems. Cardiology, activity of the heart and blood vessels, volume depletion. Fundamentals of engineering diagnostics: x-ray, ultrasound, biopsy, imaging. Fundamentals of engineering therapy: orthopedic, osteosynthesis, artificial joints, prosthetic devices, vascular procedures, by-pass surgery, prosthetic valves, neurotherapy, catheterization, drainage areas of the body under pressure, radiation therapy of cancer, dialysis and plasmapheresis. Basic principles of making decisions in clinical medicine (examples from surgery, gynecology and obstetrics). Cardiovascular pathology with special emphasis on hemodynamics and therapeutic principles in cardiac surgery. Implants in cardiac surgery (mechanical, biological). Extracorporeal circulation. Types of pumps: pulsatile roller and centrifugal pumps, functioning, advantages and disadvantages, complications. Oxygenator construction. Assisted mechanical circulation. Robotic surgery. Endovascular surgery. Types and methods of application stents in large blood vessels. Balloon catheter technology. Biological and engineering rules in stent construction. 4. Teaching methods: Lectures. One part of classes are held in clinical environment. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Mandatory Points Final exam Homework 5.00 70.00 Yes Theoretical part of the exam Yes Lecture attendance 5.00 Yes Term paper 20.00 Yes Literature Ord. Author Title Publisher Year UNS MF 2007 1. D. Pejin Interna medicina UNS-MF 2, Ch. Wiener McGrawHill 2008 Principles of internal medicine 3. K. Hillman, G. Bishop Clinical Intensive Care and Acute Medicine Cambridge UP 2004 4, P. Devitt Clinical Problems in General Medicine and Surgery **Churchill Livingstone** 2003 Savremena administracija. 5, A.C. Guyton, J.E. Hall Medicinska fiziologija 1999 Beograd



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Study Programme Accreditation

Biomedical Engineering

Course:											
Course	id:	BMIMSP	Professional Practice								
Number	of ECTS:	3									
Teacher	'S:										
Course	status:		Mandato	ry							
Number	of active teac	hing classe	es (weekly	')							
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:		
	0	C)	0		C		3			
Precond	lition courses			None							
1. Educa	ational goal:										
Extendii	ng practical kn	owledge in	the area	of biomedical eng	jineering.						
2. Educa	ational outcom	nes (acquire	ed knowle	dge):							
The acq	uired knowled	ge can be	utilized in	solving practical	engineerii	ng and biomedical proble	ns.				
3. Cours	se content/stru	icture:									
Solving	concrete bioe	ngineering	problems	in practice.							
4. Teacl	ning methods:										
Teachin	g is carried ou	it in medica	Il sector or	r scientific and ed	ucational	institutions in the form of	independent work.				
				Knowledge e	valuation	(maximum 100 points)					
	Pre-examina	tion obligation	tions	Mandatory	Points	Final e	xam	Mandatory	Points		
Project				Yes	50.00	Theoretical part of the ex	am	Yes	50.00		
					Liter	ature					
Ord.	A	uthor			Title	9	Publishe	er	Year		
1,	grupa autora		Oc	dgovarajući mate	rijali neop a	hodni za rešavanje			-		



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Biomedical Engineering

Study Programme Accreditation

Course:												
Course	id:	BMIM1A		A	Applica	ations of lasers	in medicine					
Number	of ECTS:	7										
Teache	rs:		Slankame	enac P. Miloš, Živ	anov B. N	ſiloš						
Course	status:		Elective									
Number	of active teac	hing classe	es (weekly))								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:			
	3	2	2	2		0		0				
Precond	dition courses			None								
1. Educ	ational goal:											
Acquirir humans the adva lasers ir	ng knowledge s, the developn antages and di n dermatology,	in the field nent of lase isadvantag other lase	d of laser a er technolo es of laser r applicatio	application in mo ogy, principles of surgery (surger on in modern me	edicine: ra lasers, ty y), the use dicine.	adiation sources and the pes of lasers, the charact e of lasers in dentistry, the	eir applications, the eristics of the laser e use of lasers in op	impact of rac radiation, lase hthalmology, t	liation on r surgery, he use of			
2. Educ	ational outcom	es (acquire	ed knowled	lge):								
- Ability knowled the prind of lasers	- Ability of knowledge of radiation sources and their applications - Ability of knowledge the impact of radiation on humans - Ability of knowledge of the principles of the laser and its features - Ability of knowledge of the principles of laser surgery - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in ophthalmology - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in ophthalmology - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in ophthalmology - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in ophthalmology - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in ophthalmology - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of lasers in dentistry - Ability of knowledge of the principles of l											
3. Cours	se content/stru	cture:										
- Radiat - Effect - The de - Princip - Types - The ch - Laser - Advan - The us - The us - The us	ion sources ar of radiation on evelopment of oles of laser op of lasers naracteristics o surgery tages and disa se of lasers in se of lasers in se of lasers in o	nd their app humans laser techn eeration f laser radi advantages dentistry ophthalmol dermatolog	olications ology ation of laser su ogy y	urgery (surgery)								
4. Teac	hing methods:											
Lecture	s, laboratory (L) practice,	consultatio	ons.								
				Knowledge e	valuation	(maximum 100 points)						
	Pre-examina	ition obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points			
Exercise	e attendance			Yes	5.00	Written part of the exam	- tasks and theory	Yes	70.00			
Laborat	ory exercise de	efence		Yes	10.00							
Lecture	attendance			Yes	5.00							
rest				Yes	10.00							
					Liter	ature						
Ord.	A	uthor			Title		Publish	ier	Year			
1,	Puđa Nikola		Up	otreba lasera u s	avremend	oj medicini			2005			



Course:

Course id:

Teachers:

Course status:

Number of ECTS:

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Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Assistive Information and Communications Technologies BMIM2A Delić D. Vlado, Sečujski S. Milan Elective

Number of active teaching classes (weekly)

7

value of active reacting classes (weekly)											
Lectures:	Practical classes:	Other teaching types:	Study research work:	Other classes:							
3 2		2	0	0							
Precondition courses		None									

1. Educational goal:

The objective of this course is to expand students' knowledge of information and communication technologies in the view of their use for both persons with disabilities and the elderly. These technologies include various types of aids and interfaces for communication of human with his environment, specialised in terms of a specific type of disability. In the course, students will gain knowledge of the technical aspects of different solutions, as well as the particularities of certain types of disabilities, whose knowledge is necessary for the design of assistive applications of information and communication technologies

2. Educational outcomes (acquired knowledge):

Knowing the difference between certain categories of persons with disabilities, and understanding their needs and abilities when the new information and communication technologies are in question. The possibilities and best practices on how new technologies can help to overcome the handicap and improve daily activities to both the people with disabilities and the elderly or injured people. Students in this course will acquire basic knowledge necessary for the design of assistive systems that rely on information and communication technologies, both from a technical point of view and from the point of view of specific needs and capabilities of their end users.

3. Course content/structure:

•Retrospective of assistive technology. •Assistive technology for people with various types of disabilities (visually impaired, hearingimpaired persons, persons with speech impairment or delay in speech development, persons with impaired physical abilities). •Humancomputer interfaces for different categories of persons with disabilities. •Aids and services for persons with disabilities developed on the basis of speech technologies. •Systems for remote monitoring and medical surveillance of patients. •Robots as assistive technology. Perspectives of development of assistive technology.

4. Teaching methods:

Lectures are conducted using Power Point presentations available to students in .pdf format. Presentations with specially created audio and video clips and animations demonstrate and illustrate key details in the lectures. The first part of the course is followed by auditory exercises. The second part of the course is followed by exercises either in the Laboratory of Acoustics and Speech Technologies or in the Laboratory of Mechatronics, Robotics and Automation at FTN. Several visits are arranged during the concluding part of the course - in the laboratories and studios at the School "Milan Petrović" for the children with disabilities and the Defectology Faculty, where students will learn about assistive technologies and specialised (sensor) rooms and laboratories. The students will write a midterm paper, whose defense is one of the exam prerequisites. Independent student work is supported through the web portal of the Chair of Telecommunications and Signal Processing - www.ktios.net.

Knowledge evaluation (maximum 100 points)									
	Pre-examination obligations		Mandatory	Points	Final ex	Final exam Mandator			
Present	ation		Yes	10.00	Written part of the exam	- tasks and theory	Yes	50.00	
Term paper			Yes	20.00	Coloquium exam		No	20.00	
Test			Yes	10.00					
Test			Yes	10.00					
				Liter	ature				
Ord.	Author	Title			Publishe	er	Year		
1,	Vlado Delić	Skripta	a sa predavar	nja		www.ktios.net		2012	





Study Programme Accreditation

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Table 5.2 Course sp	Table 5.2 Course specification					
Course:						

Course:										
Course	id:	BMIM3A		Biophysiological systems modelling						
Number	of ECTS:	7								
Teache	r:		Bojanić M. I	Dubravka						
Course	status:		Elective							
Number	of active teac	hing classe	es (weekly)							
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:	
	3	2	2	2		0		0		
Precond	lition courses			None						
1. Educ	ational goal:									
Student	s learn about t	heoretical	and practical	bases of biop	hysical sy	stems modeling.				
2. Educ	ational outcom	nes (acquire	ed knowledg	e):						
Enginee complex	ering approach kity of living sy	ies in desig stems and	on of comple the difference	x systems for b ce between livi	biomedica ng systen	l applications. Limitations	of engineering mode	els. Understa	nding the	
3. Cours	se content/stru	icture:								
The phy Stohast modelin glucose nerve fil	ysical and ma ic models. Me ig methods. S -insulin dynam ber. Models fo	thematical thods for p tohastic m hical syster r nerve cor	I models of process idention of contract of the second sec	physical and o fication. Monte hods. Modellir gulatory model sculo-sceletal	chemical e-Carlo m ng of card s. Microso system m	processes and phenome ethod. Nonanalytical mod iovascular system. Meta copic and macroscopic mo odels.	ena in the human bo eling methods (black bolic functions mode odels of muscles. Hoo	dy. Dynamic -box). Non-pa Iling. Modeli dgkin-Huxley	c models. arametric ng of the model of	
4. Teac	hing methods:									
Lecture	s. Laboratory p	practice. Co	omputer prac	tice. Consultat	ions.					
				Knowledge e	evaluation	(maximum 100 points)				
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points	
Project				Yes	30.00	Theoretical part of the ex	am	Yes	50.00	
Test				Yes	10.00					
Test				Yes	10.00	aturo				
Ord	^	uthor			Title		Publisho	r l	Voar	
1,	Vincent C. R	ideout	Math	ematical and (Computer	Modeling of	Prentice-Hall		1991	
2,	John Enderle	, Jozeph	Intro	duction to Bion	nedical Er	ngineering	Academic Press		2012	
3,	Michael C.K.	Khoo	Phys and I	iological Contr Estimation	ol System	s: Analysis, Simulation	John Wiley & Sons, Hoboken, New Jers	inc., ey	2000	
							,			



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Study Programme Accreditation

Biomedical Engineering

Course: EMI and EMC in medicine equipment Course id: BMIM1B Number of ECTS: 7 Teachers: Damnjanović S. Mirjana, Nađ F. Laslo Course status: Elective Number of active teaching classes (weekly) Study research work: Lectures: Practical classes: Other teaching types: Other classes: 3 2 2 0 0 Precondition courses None 1. Educational goal: Acquiring theoretical and practical knowledge in the field of electromagnetic interference (EMI) and electromagnetic compatibility (EMC) in medicine equipment. 2. Educational outcomes (acquired knowledge): Acquiring knowledge of EMI sources and coupling paths in medicine equipment - The ability of choosing and implementation of EMI protection components in medicine equipment - Ability to design in medicine equipment immune to EMI 3. Course content/structure: Sources and methods of propagation of electromagnetic interference (low-frequency electric and magnetic fields, atmospheric discharge, radio transmitters, the inclusion of transitional processes in the device, electrostatic discharge). Practical examples of application of standards related to electromagnetic interference (EMI) and electromagnetic compatibility (EMC). The concept of EMI / EMC protection in medicine equipment. ESD (Electrostatic Discharge) protection. Components for protection (resistors, capacitors, inductors). EMC measurement techniques. Filters for Power Supplies Shielding. Grounding. Principles of designing devices and systems immune to EMI. Printed circuit board design immune to EMI. 4. Teaching methods: Lectures. Laboratory Practice. Consultation. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Lecture attendance 5.00 Written part of the exam - tasks and theory 50.00 Yes Yes Project 45.00 Yes Literature Ord. Publisher Author Title Year Electromagnetic Compatibility in Medical Equipment: W. Kimmel, D. Gerke **IEEE** Press 1995 1, A Guide for Designers and Installers 2, T. Williams EMC for Product Designers, 4th ed. Elsevier, Newnes 2007 C. Paul Introduction to Electromagnetic Compatibility 2006 3, Wiley



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Study Programme Accreditation

Biomedical Engineering

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:								
Course id:	BMIM2B	Biomedical statistics						
Number of ECTS:	7							
Teachers:		Bajić D. Drag	gana, Lončar-	Turukalo	G. Tatjana			
Course status:		Elective						
Number of active tea	ching classe	es (weekly)						
Lectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
3	2	2	2		0		0	
Precondition courses	3		None					
1. Educational goal:								
The goal of this cour perceive interaction analysis techniques	rse is to pro theories, mo to understan	vide students dels, and ana d complex bio	s with the tec lysis of the ex omedical syst	hnical kno operimenta ems.	owledge required for pro al environment. Will recog	ocess modeling and Inize how, when and	analysis. Stu why to apply	dents will statistical
2. Educational outco	mes (acquire	ed knowledge):					
Students will know w individual systems	hen and how	w to apply cer	tain statistica	l tools, and	d will be able to use alter	native approaches to	the characte	rization of
3. Course content/st	ructure:							
Conditions for the ap - distribution parame - Hypothesis testing. - Group comparisons - Biomedical Studies. - Clinical Studies. - Epidemiological sta - Multivariate analysi - Vital statistics. - Causes of errors	plication of o tar assessm confidence s.	deterministic a ent interval. Regro ction and size,	and probabilis ession and co , the interpreta	tic descrip prrelation. ation of re	otions of biomedical phenotons of biomedical phenotons	omena.		
4. Teaching methods	3:							
Lectures, lab excerc	ses , Audito	ry excercises						
			Knowledge e	evaluation	(maximum 100 points)		-	-
Pre-examir	nation obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points
Laboratory exercise	defence		Yes	30.00	Written part of the exam	- tasks and theory	Yes	70.00
				Liter	ature			
Ord.	Author			Title	;	Publish	er	Year
1, L.E. Daly a McGilvray	nd Geoffrey	Interp	retation and l	Jses of Me	edical Statistics	Blackwell Science		1995





Study Programme Accreditation

Biomedical Engineering

Course												
Course	id:	BMIM3B		Soft Sensors								
Number	of ECTS:	7										
Teache	r:		Jorgovanov	orgovanović Đ. Nikola								
Course	status:		Elective									
Number	of active teac	hing classe	es (weekly)									
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:			
	3	2	2	2		0		0				
Precon	lition courses	-		None								
1. Educ	ational goal:											
Student	s learn about t	heoretical a	and practica	l bases of soft s	sensors.							
2. Educ	ational outcom	nes (acquire	ed knowledg	e):								
- knowle - knowle	edge in the fiel edge about the	d of soft se applicatior	nsors desigi ns of machir	n; ne learning tech	iniques fo	r modelling the nonlinear	processes in human	body.				
3. Cour	se content/stru	icture:										
Soft se realizat the non selectio	nsors as a low on of more rel linear process n). Model valio	w cost alte liable proce es in huma dation. Stra	rnative to e esses. The a in body. Sof itegies to Im	expensive hard applications of it sensor design aprove Soft Ser	ware dev machine l n. Data se nsor Perfo	ices. Soft sensors in pa earning techniques (neu election. Choice of the mo rmance.	rellel with hardware ral networks, fuzzy lo odel structure (static,	sensors allo ogic etc.) for dynamic, mo	owing the modelling odel order			
4. Teac	hing methods:											
Lecture	s. Computer p	ractice. Lab	oratory prac	ctice. Consultat	ions.							
				Knowledge e	valuation	(maximum 100 points)						
	Pre-examina	tion obligat	tions	Mandatory	Points	Final e	xam	Mandatory	Points			
Project				Yes	30.00	Theoretical part of the ex	am	Yes	50.00			
Test				Yes	10.00				-			
Test				Yes	10.00							
					Liter	ature						
Ord.	A	uthor			Title	•	Publishe	er	Year			
1,	Fortuna, L., C Rizzo, A., Xit	Graziani, S. bilia, M.G.	, Soft Proc	Sensors for Mo esses	onitoring a	nd Control of Industrial	Springer		2007			



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

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Study Programme Accreditation

Biomedical Engineering

Table 5.2 Course specifica	tion
Course:	

		_			.								
Course	id:	BMIM1C		Bioinformatics Algorithms									
Numbe	ber of ECTS: 7												
Teache	r:		Dautović I	B. Staniša									
Course	status:		Elective										
Numbe	r of active tead	hing classe	s (weekly))									
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:				
	3	2		2		C		0					
Precon	Precondition courses None												
1. Educ	ational goal:												
Introdu necess	ction to bioinfo ary for unders	ormatics an standing pro	d comput	ational biology. bioinformatics a	Introduction	on to the basic graph a Itational biology.	nd combinatorial co	ncepts and a	lgorithms				
2. Educ	ational outcom	nes (acquire	d knowled	lge):									
Studen solving	ts learn about problems in th	algorithms f ie areas of t	or solving bioinforma	problems in bioi itics and compute	nformatics ational bio	and computational biolo	ogy. Familiarity with	basic softwar	e tools for				
3. Cour	se content/stru	icture:											
Basic c program parame Algorith Longes alignem compai analysi	oncepts of gra nming, Divide- terized, heuris ims for solving t common sub ient; Motiv find ison; DNA arr s; Complex gr	oph theory a and-conque tic and meta problems i ostring, shor ling; Repeat ays and mi aph/networ	nd compu r algorithm a-heuristic in bioinfor test comn finding; G croarrays ks layout.	utational complex ns. Graph algorit es algorithms. Pa rmatics and com non superstring; Gene prediction; (; Evolutionary tr	kity theory thms. Com rallel and o putational DNA map Genome re ees and p	Basic algorhitms: Exhap binatorial pattern matchi distributed algorithms. biology: Exact/inexact s ping and sequencing; G sarrangements; Protein s hylogeny; Hierarchical	ustive search, Greed ng algorithms. Rand string matching; Suf ilobal and local sequ sequencing and iden and k-means cluste	dy algorithms, lomized, appr fix trees; Edit uence alignme tification; Mult ering; Gene e	Dynamic oximative, distance; ent; Block tiple string xpression				
4. Teac	hing methods:												
Lecture	s. Computer E	xercises.											
				Knowledge e	evaluation	(maximum 100 points)							
	Pre-examina	ation obligati	ons	Mandatory	Points	Final e	xam	Mandatory	Points				
Laboratory exercise defence Yes 40.00 Oral part of the exam Yes							Yes	30.00					
Project Yes 30.00													
					Litera	ature							
Ord.	A	Nuthor			Title		Publish	ier	Year				
1,	Neil C. Jones Pevzner	s, Pavel A.	An	Introduction to E	Bioinformat	ic Algorithms	MIT Press		2004				
2,	D. Gusfield		Alg	porithms on String	gs, Trees,	and Sequences	Cambridge Univer	sity Press	1997				



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Study Programme Accreditation

Biomedical Engineering

Course:			Multiv	Multivariable analysis and complexity of physiological processes								
Course id	:	BMIM2C										
Number o	of ECTS:	7										
Teachers:	:		Bajić D. Dragana, Lončar-Turukalo G. Tatjana									
Course st	atus:		Elective	Elective								
Number o	of active teac	hing classe	es (weekly	()								
Lec	tures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:			
	3	2	2	2		0		0				
Preconditi	ion courses			None								
1. Educati	ional goal:											
Introducti Combinin	on to the m ig variables	ethods of of mutua	nonlinear Ily couple	analysis of phy d systems in or	siological der to imp	systems and methods t prove the prediction and	hat can be used for modeling.	diagnostic	ourposes.			
2. Educati	ional outcom	es (acquire	ed knowle	edge):								
Introductio dynamica	on to the ana I systems . T	alysis of the	e system I of surroo	coupled on seve gate data	ral levels;	methods of prediction in	time series. Analysis	methods of	nonlinear			
3. Course	content/stru	cture:										
Integratio such as t approach dynamica applicatio Poincare Recurrent	n of informa the autonon les to the au l systems, c ns (adapta plot, detrend t Plot The	tion in mul nic nervou nalysis of thaos and tion for sh ded fluctua method of	tivariable s system biomedic fractals - ort record ations ana f surrogat	, multi-system., N n, respiratory sys al signals to a n Modification of t dings in the prese alysis, entropy es te data: types of	Multiresolu stem and nore suita the standa ence of no stimate (ap surrogate	ution multimodal framework cardiovascular system able description of comp and algorithms from the f bise): correlation dimens oproximate, Sampling en data, testing the hypoth	ork. Analysis of mutu - Application of no- blex physiological pl field of nonlinear dyn sion, Lyapunov expo tropy, phase and mu esis using surrogate	ally coupled n-linear detenenomena. I namics for b nent, Hurst o ultiresolution data, exam	systems, erministic Nonlinear iomedical exponent, entropy), ples			
4. Teachir	ng methods:											
Lectures,	lab excersic	es										
				Knowledge e	evaluation	(maximum 100 points)		_				
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points			
Project				Yes	30.00	Theoretical part of the ex	am	Yes	70.00			
Literature												
Ord.	A	uthor	Title Publisher				er	Year				
1,	J.R. Acnarya J.A:E. Spaan	i, J.S. Suri, , S:M Kris	hnan Ad	nnan Advances in Cardiac Signal Processing Springer				2007				
2, F	Peter Brockw Davis	ell Rischar	In	troduction to Tme	e Series ar	nd Forecasting	Springer		2002			
3, N	Vichael Sma	II	A	pplied Nonlinear	Time Serie	es Anlysis	World scientific		2005			



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Study Programme Accreditation

Biomedical Engineering



 MASTER ACADEMIC STUDIES

 Table 5.2 Course specification

Course:	ourse:										
Course	id:	BMIM3C		Functional Electrical Therapy							
Number	of ECTS:	7									
Teacher	rs:		Bojanić M.	Dubravka, Jorg	govanović	Ð. Nikola					
Course	status:		Elective								
Number	of active tead	hing classe	es (weekly)								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:		
	3	2	2	2)	0			
Precond	lition courses	-	-	None							
1. Educa	1. Educational goal:										
Student	Students learn about modern technologies and development trends in the field of functional electrical therapy.										
2. Educa	2. Educational outcomes (acquired knowledge):										
Student stimulat multi-fie upper/lo vision s	Students acquired basic theoretical and practical knowledge in the field of electrotherapy, functional electrical therapy (FET), electrical stimulators for FET, new types of stimulation pulses for FET. Students learn about muscle fatique, methods for muscle fatique analysis, multi-field electrodes, muscle fatique treatment methods, electrotherapy of upper and lower extremities and tests for the evaluation of upper/lower extremity functionality and tests that determine the clinical efficacy of functional electrical therapy. Students learns about vision systems used in FET.										
3. Cours	se content/stru	icture:									
Enginee High fre algorithr in musc tests. Th	ering approach quency curren ns for muscle le fatique trea ne application	n to function nt electroth fatigue ana tment. Fun of vision s	nal electrica erapy. Tech alysis during ctional elect ystems in fu	al therapy. The aniques for desi g electrotherapy trotherapy of up unctional electro	use of ele gning new 7. The app oper and le otherapy.	ctrical energy as a med / types of current genera lication of multi-field ele ower extremities. Function	cal treatment. Direct ators for use in electro ctrodes and different onal tests of grasping	current electro otherapy. Met types of curre function. Coo	otherapy. hods and nt pulses ordination		
4. Teacl	ning methods:										
Lectures	s. Auditory pra	ictice. Labo	oratory pract	ice. Consultatio	ons.						
				Knowledge	avaluation	(maximum 100 points)					
	Pre-evamina	ation obliga	tions	Mandatory	Points	(maximum roo points) Final e	vam	Mandatory	Points		
Project	TTC-CAUTINE	alon obliga	10113	Yes	30.00	Theoretical part of the e	xam	Yes	50.00		
Test				Yes	10.00						
Test	Test Yes 10.00										
				•	Liter	ature					
Ord.	A	uthor			Title		Publishe	er	Year		
1,	L. Benton, L. Bowman, R	Baker, B. Waters	Fun Guid	ctional Electrica	al Stimulat	ion – A Practical Clinical	Rancho Los Amigo CA	s, Downy,	1981		
2,	Popović D, S	inkjær T.	Con	trol of moveme	nt for phys	sically disabled	Springer-Verlag, Lo	ondon	2000		
3,	Dejan Popov Popović, Mili	ić, Mirjana ca Jankovi	é Bior	medicinska mer	enja i insti	rumentacija	Akademska misao,	Beograd	2010		



Study Programme Accreditation

Biomedical Engineering





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Biomedical Engineering

Study Programme Accreditation

Course:			Information theory in biogystems									
Course	id:	BMIM2D			Inform	ation theory in	biosystems					
Number	of ECTS:	7										
Teache	rs:		Bajić D. Dragana, Vukobratović V. Dejan, Lončar-Turukalo G. Tatjana									
Course	status:		Elective									
Number	of active teac	hing classe	es (weekly	()								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:			
	3	2	2	2		()	0				
Precond	lition courses			None		-						
1. Educ	ational goal:											
Unders synchro informa	Understanding the basic concepts of information theory (statistical coding, -compression, protective coding theory and sequence synchronization) and their application in biological systems. The structure of DNA and RNA and understanding the encoding of information in living organisms and their modifications due to aging and pathology											
2. Educ	ational outcom	ies (acquir	ed knowle	dge):								
Introduc Introduc techniqu	ction to the bas ction to the pro ue	sic principl cess of tra	es of infor nslation ar	rmation theory an nd trascription. Us	id their ap sing public	pplications in coding info clz available databases a	mation related to prond mathe use of availabl	otein synthes e software. N	is in cells. ⁄licroarray			
3. Cours	se content/stru	cture:										
Basic c without - Repeti - Use a base. - The a Alignme - Analys - Metho	oncepts of inf memory, stat tion: a basic b vailable datab lignment of Dl ent in pairs, pa is of gene exp ds of clustering	ormation ti istical codi iological co ases and a NA or prot atterns, pro ression: a g and statis	heory, the ng, protec oncepts an annotatior ein seque ofiles and microarray stical analy	e concept of infor ction coding, syn id nucleic acids D ns: structure and ences to determir multiple alignme ys technique ysis of the expres	mation, a chronizat NA RNA types: se ne the fun ent sion level:	n measure of the amoun ion sequences, Markov gene, protein structure, a quence databases, micr ction of detected seque s	t of information, disc models, Hidden Mar nd translation and tra oarreys, protein inter nce , a quantitative r	rete sources kov Models nscription pro actions and neasures of	with and ocesses structural similarity.			
4. Teac	hing methods:											
Lecture	s, lab excercis	es										
				Knowledge e	valuation	(maximum 100 points)						
	Pre-examina	ition obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points			
Project				Yes	30.00	Written part of the exam	- tasks and theory	Yes	70.00			
					Liter	ature	1					
Ord.	A	uthor			Title)	Publishe	er	Year			
1,	Marketa Zvel O. Baum	ebil and Je	eremy Ur	nderstanding Bioi	nformatics	3	Garland Sicence, T Francis group	aylor and	2008			
2,	G. Parmigian R.A. Iriziarry,	i, E. Garre S. L. Zege	tt, Th er Th	ne Analysis of Ge	ne Expres	sion Data	Springer		2003			



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Study Programme Accreditation

Biomedical Engineering

Course:												
Course id:	BMIM3D		Development of integrated biomedical systems									
Number of EC	S: 7		~									
Teachers:		Erdeljan M	eljan M. Aleksandar, Čapko Lj. Darko									
Course status:		Elective										
Number of acti	ve teaching class	es (weekly)										
Lectures	: Practica	l classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:				
3		2	2		0		0					
Precondition co	Precondition courses None											
1. Educational	goal:											
The goal of the well as a pract	e course is to acc ical realization of	quire the ne f integration	cessary knowle	dge abou	t integration software sub	osystems within the l	piomedical sy	stem, as				
2. Educational	outcomes (acquir	ed knowled	ge):									
Mastering the biomedical sys	knowledge, skills stems and solve	s and abiliti practical er	es necessary fon ngineering problem	or underst lems.	anding the activities req	uired for the implem	entation of ir	ntegrated				
3. Course cont	ent/structure:											
characteristics service. Comm infrastructure, Consistency a Principles and integration with	The architecture unication system web services. F nd replication of design of servi h neural prosthe	e of a distrik n, low-level Processes a f data. Fau ces. Desig eses, etc	puted system, ba protocols (Blue and threads: pro It tolerance. Se n and impleme	asics of se tooth, US ocess syr curity. Th ntation of	B, CAN Bus, Wi-Fi, ZigE inchronization, distributed e analysis of requires f solutions. Examples: t	re, services. Integrat Bee, etc), a software d transactions, and or the integration of herapeutic systems	ing of applications, service- time synchro biomedical integration,	oriented onization. systems. systems				
4. Teaching me	ethods:											
Lectures. Com	outer practice. Co	onsultations										
			Knowledge e	evaluation	(maximum 100 points)							
Pre-e	xamination obliga	ations	Mandatory	Points	Final ex	am	Mandatory	Points				
Project			Yes	30.00	Theoretical part of the ex	am	Yes	30.00				
Test			Yes	10.00								
Test			Yes	10.00								
Test	Test Yes 10.00											
Ord.	Author	Author Title Publisher				er	Year					
1, Andre Maart	w S. Tenenbaum en Van Steen	, Dis	tributed System	s, Principle	es and Paradigms	Pearson Education,	inc.	2002				
2, A.Erd	eljan, D.Čapko	Šta prip	mpani materijal premi	koji pokriv	a predavanje i vežbe - u	FTN		2012				



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



Study Programme Accreditation

Biomedical Engineering

Course: Study-Research Work on the Master Thesis Theoretical								al				
Course	id:	BMISIR				Framework						
Number of ECTS: 9												
Teachers:												
Course	status:		Mandato	ory								
Number	of active teac	hing classe	es (weekly	weekly)								
Lectures: Practical classes: Other teaching types: Study research work: Other class								asses:				
	0	C)	0		9		0				
Precond	lition courses			None								
1. Educa	ational goal:											
The app solving structure become student` to apply	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. Educa	ational outcom	es (acquire	ed knowle	edge):								
Students the stru- solution methods given to the posi	s are able to ir cture of the ch s. By the inde s and scientific pic. The practi tion and role c	ndependen nosen prot ependent u papers re ical applica of an engin	tly apply to blem. Stuuse of pro- lated to the stion of the eer in the	the previously acq udents conduct a ofessional literatu he topic. In that w e acquired knowle chosen field, and	uired know systematio ure, studer ay, studen edge in diff I the neces	ledge in the fields that the c analysis of the problem its widen their knowled ts develop the ability to c erent fields enables the sity of cooperation with	ney had previously s m and draw conclus ge in the chosen fie do analysis and iden student to develop th other professionals a	tudied, and un sion about the eld and study tify problems he ability to un and team wor	nderstand e possible / different within the nderstand k.			
3. Cours	se content/stru	cture:										
The cou studies in order The stud numeric field of t	rse structure i professional lit to find solutio dy involves the al simulation, he master the	is formed i terature, gr ns to a spe e active stu statistical esis.	ndividuall aduation ecific prot idy of the processir	ly according to the and master thesis olem defined by the primary literature ng of data, writing	e needs of s of studen thesis. A and disco and/or pre	a specific master thesis ts who have previously a part of the course is do veries on the topic, the esenting a scientific ess	s, its complexity and done work on a simi one through individua organization and rea ay at a conference i	structure. Th lar topic, doe: al study-resea lization of exp n the specific	e student s analysis arch work. beriments, s scientific			
4. Teach	ning methods:											
The men thesis w working to enhan other pr researcl	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 M					Mandatory	Points						
Project				Yes	50.00	Oral part of the exam		Yes	50.00			
					Litera	ture	i					
Ord.	A	uthor			Title		Publish	er	Year			
1,	grupa autora		Čá	asopisi i diplomski	-master ra	dovi			-			



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Study Programme Accreditation

Biomedical Engineering

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Course:											
Course id:	BMIZMR		Preparation and Defence of Master Thesis								
Number of ECTS:	8										
Teachers:											
Course status:	N	/landator	ŷ								
Number of active teac	hing classes	(weekly)								
Lectures:	Practical cl	lasses:	Other teaching types:	Study research work:	Other classes:						
0	0		0	0	8						
Precondition courses		-	None								
1. Educational goal:											
The objective of the preparation and defense of the master thesis is that student shows independent and creative approach in the application of the practical and theoretical knowledge in the field of biomedical engineering. Student will be able to follow the literature and do research work.											
2. Educational outcom	nes (acquired	knowled	dge):								
By completing and de life practical problems the field of biomedical to suitably write and p applying the new deve	fending a ma as well as to engineering resent the re- elopments in	aster the o continu and is a sults of the profe	esis the students who have grue education if they choose to ble to solve concrete problem their work. The students comp essional field as well as coope	aduated from this programme should be do so. A student with a master's degre s using scientific methods and procedur- pleting this level of studies have the com gration with local social and internationa	e competent to solve real se acquires knowledge in es. The students are able upetence for studying and I environment.						
3. Course content/stru	icture:										
Biomedical engineeri electronics. Medical a	Biomedical engineering. Signals, systems and control in biomedical systems. Biomechanics. Applied computer engineering. Medical electronics. Medical application of robotics.										
4. Teaching methods:											
Mentor of the master 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 (m	aximum 100 points)							

Pre-examination obligations	Mandatory	Points	Final exam	Mandatory	Points
Writing the master thesis	Yes	50.00	Master thesis defence	Yes	50.00





Study Programme Accreditation

Biomedical Engineering

Course: Transport phenomena and Living systems Course id: BMIM4A Number of ECTS: 6 Simić S. Srboljub, Spasić T. Dragan, Dragutinović D. Gordan, Zuković M. Miodrag, Žigić M. Miodrag, Teachers: Grahovac M. Nenad Course status: Elective Number of active teaching classes (weekly) Practical classes: Lectures: Other teaching types: Study research work: Other classes: 3 2 0 0 1 Precondition courses None 1. Educational goal: Comprehension and application of basic principles of thermal mechanics and fluid mechanics in analysis and solving of problems of biotransport, which include living organisms, homeostasis, trauma, diagnostic and therapeutic procedures on an organic level with complex constituent properties. 2. Educational outcomes (acquired knowledge): Development of models that encompass the phenomenon of transport for use in fields of quantitative physiology and biomedical engineering 3. Course content/structure: Fundamental concepts and unique aspects of transport in biosystems. Modelling and solving of problems of biotransport. Principles of diffusion. Rheology of biofluids. Macroscopic aspects of biofluid transport. Monodimensional flow. Heat transfer in biosystems. Macroscopic aspect of heat transfer in multiple system interactions. Steady monodimensional systems. Fundamentals of mass transfer. Phase equilibrium. Mass transfer between phases. A macroscopic approach - Compartmental Analysis. Chemical reactions and bioreactors. Pharmacokinetics 4. Teaching methods: Auditory lectures. A part consists of computer and lab classes. Knowledge evaluation (maximum 100 points) Mandatory Points Pre-examination obligations Final exam Mandatory Points Exercise attendance 5.00 Written part of the exam - tasks and theory Yes 50.00 Yes Lecture attendance 5.00 Yes 20.00 Term paper Yes Term paper 20.00 Yes Literature Ord Author Title Publisher Year R. Roselli and K. Diller Biotransport: Principles and Applications Springer 2011 1, Transport Phenomena in Biomedical Engineering -McGrawHill 2010 2, K R Sharma Artificial Organ Design and Development and Tissue Engineering





Study Programme Accreditation

Biomedical Engineering

Course: Virtual measurement instrumentation in biomedicine Course id: BMIM5A Number of ECTS: 7 Teachers: Tomić J. Josif, Sovilj M. Platon Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 2 2 0 0 Precondition courses None 1. Educational goal: Acquiring knowledge in the field of virtual measurement instrumentation in biomedicine. 2. Educational outcomes (acquired knowledge): Working principles and application of virtual measurement instrumentation in biomedicine. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem solving related to utilization of virtual measurement instrumentation in biomedicine. Ability to perform an effective literature search and to utilize other types of information sources in the field of measurement instrumentation in biomedicine, ability to present results of the research. Knowledge and comprehension of the virtual measurement instrumentation elements and application in biomedicine. 3. Course content/structure: Introduction to virtual measurement instrumentation. History and arhitecture of virtual measurement instrumentation. Sensor modules. Sensor interface. Modules for processing: Analytical processing and artificial inteligence techniques. Databases interfaces. Interfaces in medical information systems. Display and control objects: terminal user interfaces, graphycal user interface, multimodal presentation, virtual and augmented reality. Functional integration of virtual measurement instrumentation. Distributed virtual measurement instrumentation. Medical information system network. Internet, mobile networks, integration of distributed systems. Hardware platforms and operating systems for virtual measurement instrumentation. Development environments: programming languages, and graphical programming tools. Application of virtual instrumentation in biomedical measurements and supervision. Application of virtual instrumentation in training and education in biomedicine. Application of virtual measuring instrumentation in testing of medical devices and systems. 4. Teaching methods: Lectures, laboratory practice, consultations. Knowledge evaluation (maximum 100 points) Mandatory Pre-examination obligations Points Final exam Mandatory Points Laboratory exercise defence 50.00 Written part of the exam - tasks and theory Yes 50.00 Yes Literature Ord. Title Publisher Author Year 1. J. D. Bronzino The biomedical engineering handbook CRC Press, IEEE Press 2000 Virtual Bio-Instrumentation: Biomedical, Clinical, and 2. J. B. Olansen, E. Rosow Prentice Hall PTR 2001 Healthcare Applications in LabVIEW S. Sumathi, P. Surekha 2007 3, LabVIEW Based Advanced Instrumentation Systems Springer Eksterno testiranje površinskih kalemova uređaja za Fakultet tehničkih nauka u P. Sovilj 2006 4 magnetsku rezonancu Novom Sadu Virtualna instrumentacija primenom LabVIEW 5. J. Tomić. M. Milovanović Grid-FTN Novi Sad 2010 programa



STATES TO BE

Study Programme Accreditation

Biomedical Engineering

Course: Technologies of shaping biomedical materials Course id: BMIM4B Number of ECTS: 6 Teachers: Plančak E. Miroslav, Vilotić Ž. Dragiša Course status: Elective Number of active teaching classes (weekly) Study research work: Lectures: Practical classes: Other classes: Other teaching types: 3 2 1 0 0 Precondition courses None 1. Educational goal: The goal of course is to introduce students with potential application of the forming technology in medical and dentistry field, introduction to the biocomposite materials. 2. Educational outcomes (acquired knowledge): Education of students and their training regarding the use of forming technology manufacturing medical and dental devices, restorations, implants etc. 3. Course content/structure: 1. Biocompatible metals, requirements and limitations. 2. Theoretical basis of plastic deformation 3. Formability of metal materials 4 Methods for the analysis of metal forming processes 5. Methods of theoretical analysis 6. Methods for modeling and numerical simulation of metal forming processes 7. Methods of experimental research in metal forming 8. Methods of forming biocompatible metal 9. Methods for cold forming of biocompatible metals 10. Methods for warm forming of biocompatible metals 11. Precision forming of metals 12. Microforming of biocompatible metals 13. The application of metallic powder in biomedical engineering 14. Methods of sintering biocompatible metal powder 15. Biocompatible polymers 16. Theoretical basis of shaping of polymer 17. Polymer rheology 18. Methods of theoretical analyses of polymer shaping 19. Methods of numerical simulations of polymer shaping 20. Experimental methods of polymer shaping 21. Polymer processing methods, classification and basic characters 22. Continuous methods of polymer shaping 23. Cyclic methods of polymer shaping. 4. Teaching methods: Lectures, laboratory exercises, computer exercises, company visits, consultations Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Project 30.00 Final exam - part one Yes 35.00 Yes Yes 35.00 Final exam - part two Literature Ord. Title Publisher Year Author Plančak M. Vilotić D. Tehnologija plastičnog deformisanja FTN, Novi Sad 2012 1. 2010 2, Vlotić D. Plančak M. Mašine za obradu deformisanjem FTN, Novi Sad Plančak M., Vilotić D 2011 3, Alati za tehnologije plastičnog deformisanja metala FTN, Novi Sad 4, Čatić I., Johannaber F Injekcijsko prešanje polimera i ostalih materijala Biblioteka polimerstvo, Zagreb 2004 Plastics - Materials and Processing, Prentice Hall, 5 Strong A. Bernt 2010. Plastics - Materials and Processing, Prentice Prentice Hall 2010 Hall, 2010. Plastics - Materials and Processing



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Course:			1											
Course	Durse id: BMIM5B Design and development of medical devices and systems													
Number	of ECTS:	7		iić V. Dragan, Sovili M. Platon										
Teache	rs:		Pejić V. Dra	agan, Sovilj M.	Platon									
Course	status:		Elective											
Number	umber of active teaching classes (weekly)													
L	ectures:	Practical	classes:	Other teaching	ng types:	Study resea	arch work:	Other cla	asses:					
	3 2 2 0 0													
Precond	lition courses		-	None										
1. Educ	ational goal:													
Acquirin	g knowledge i	n the field o	of design an	d development	of medica	al instruments and measu	rement systems.							
2. Educ	ational outcom	es (acquire	ed knowledg	e):										
Underst search a to prese problem design a	anding basic p and to utilize o ent results of to solving relate and developm	orinciples in ther types he researc ed to design ent of med	n design and of informatio h. Ability to n, developm ical instrume	d development on sources in th work in a multi ient and manuf ents and syster	of medica e field of o disciplina acturing o ms.	al instruments and syster design and development of ry team environment with of medical instruments an	ns. Ability to perform of medical instrumer n biomedical engine d systems. Ability to	n an effective hts and system ers and docto perform eve	literature ns. Ability ors on the ry step of					
3. Cours	se content/stru	cture:												
concept specific correcti develop and dev output configu verificat Transfe design f develop quality a Practicu	, design and d ation and de ve/preventive ment project a relopment pha from the desi ration manag ion. Software r functions an or medical dev ment Conce assurance. Pro im and studen	evelopmer sign, proto measures and technic ises revisio gn and de ement doo validation a d score ca vices. EU c pt of medio oduct class it projects i	t, manufact bype manu s and mana cal documer on, matrix ar evelopment cumentation as a part of rds. Fundar lirectives ide cal device. C sification and in the field c	uring, service a facturing, "zer gement recon ntation: plannin d bench testin verification, co for medical d design and dev nentals of expe entification and E mark earning d route choices of design and d	nd mainte ro" series sideration g, require g as outp orrespon- evices an velopment erimental harmoniz g algorithr a. Identific evelopme	enance, disposition. Media production, verification n during medical device ements specification, pro- but from the design and d dence between output of nd systems. Risk analyst validation. Six-sigma pri- design. Robust parameter ation of standards for me- ms. EU directive and nationation attern of essential require ent of medical devices an	cal device design ar and validation. R s life cycle. Medica duct specification, n levelopment verifica design and manufa sis as a part of des nciples in developm er design for medic dical devices and ap onal legislation Pro ments, testing and d systems.	d developmen ole of interna al devices de nedical devices tion, clinical t icturing requi- sign and devi- ent of medica al devices. To oplication in de oduct, technica harmonized s	nt stages: al audits, esign and es design resting as irements, elopment I devices. olerances esign and al file and tandards.					
4. Teac	ning methods:													
Lecture	s, auditory exe	rcises, laba	aratory exerc	cises, consultat	ions.									
				Knowledge e	valuation	(maximum 100 points)								
	Pre-examina	tion obligation	tions	Mandatory	Points	Final ex	am	Mandatory	Points					
Project				Yes	50.00	Written part of the exam	- tasks and theory	Yes	50.00					
					Liter	ature								
Ord.	A	uthor			Title		Publish	er	Year					
1,	ISO TC 210		ISO man purp	13485:2003 Me agement syster oses	edical dev ms Req	ices Quality uirements for regulatory	International Orgar Standardization	nization for	2003					
2,	ISO TC 210		ISO man	14971:2007 M agement to me	edical devi	vices Application of risk ces	International Organ Standardization	nization for	2007					
3,	B. El-Haik, K	. S. Mekki	Med Safe	ical Device Des ty and Effective	sign for Si eness	x Sigma: A Road Map for	Wiley-Interscience		2011					
4,	R. C. Fries		Relia	able Design of I	Medical D	evices	CRC Press		1997					
5,	R. C. Fries		Hand	dbook of Medic	al Device	Design	CRC Press		2001					
6,	P. Sovilj		Etalo	oniranje elektrol	kardiograt	fa	Fakultet tehničkih i Novom Sadu	nauka u	2011					



Γ

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



Study Programme Accreditation

Biomedical Engineering

Table 5.2 Course specification

Course:												
Course	id: E	BMIM4C		Fluid filtration and separation								
Number	of ECTS: 6	6										
Teache	rs:		Šešlija D.	Dragan, Dudić I	Sloboda	n						
Course	status:		Elective									
Number	of active teach	ning classe	es (weekly))								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	isses:			
	3	2	2	1		C		0				
Precondition courses None												
1. Educ	1. Educational goal:											
The goa biotech	The goal of course is to obtain knowledge about the contaminants, the required level of purity of various fluids used in hospitals and biotechnology, devices and methods for their separation and filtration and clean room design for manufacture of biotech products.											
2. Educ	ational outcom	es (acquir	ed knowled	dge):								
Course eliminat the fluid	Course outcomes is knowledge related to filtration and separation. The acquired engineering knowledge are related to troubleshooting elimination of pollutants from different types of fluid and systemic approach to enhancing fluid purity and separation of certain elements of he fluid. In addition, the outcomes of the subject are the knowledge of clean room technology and clean technology											
3. Cours	se content/strue	cture:										
Basics biotechi compre dialysis devices separat conceni room, c 4. Teac Teachir measur anticipa for the p	Basics of filtration (concept and types of contaminants, the principles of filtration, filtration mechanisms). Types of filtration used in biotechnology (microfiltration, ultrafiltration and reverse osmosis). Separation and filtration. Filtration of different types of fluids (filtration of compressed air, oil filtration, water filtration). Filtration and separation Non-Newtonian fluids (separation of blood components, blood dialysis for kidney patients). Apparatus for filtration and separation (filter media, filters for compressed air, water filtres, automated filtering devices, dialyzers for kidney patients - structure and function, the devices for the separation of blood). Selection and sizing of filters and separators. Clean rooms (concept and purpose of clean rooms, type of production in clean rooms, cleanroom contamination sources, the concentration of pollutants in the air of clean rooms, devices for checking the concentration of pollutants - particle counters, class clean room, crucial elements of contamination, regulations related to the clean room). 4. Teaching methods: Teaching is done through lectures and laboratory exercises. Laboratory exercises provide the use of equipment to measure moisture, to measure the level of oil and oil vapor, and to determine the number of particles of pollutants as well as testing of filter media. It is anticipated visit of clean room in one of the pharmaceutical factory. Two tests would be carried out to determine students preparedness											
enginee	ering tasks pres	scribed co	urse follow	ed by an oral ex	am.			•				
				Knowledge e	evaluation	(maximum 100 points)		1				
	Pre-examinat	tion obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points			
Laborat	ory exercise at	tendance		Yes	5.00	Oral part of the exam		Yes	50.00			
Project	allenuarice			Yes	30.00							
Test				Yes	10.00							
Literature												
Ord.	A	uthor			Title		Publishe	er	Year			
1. Ken Sutherland Filter			ters and Filtration	n Handboo	k	Elsevier		2008				
2,	Golubović, Z.,	, Šešlija, D). Ch	alanges Of Prep	aring Steri	le Compressed Air	Proceedings of the	PAMM –	2007			
3,	Mitrović, Č., G Šešlija D	Golubović,	Z., Fili	tracija fluida i sej zduhoplova	paracija šte	etnih materija kod	Istraživanja i projek	tovanja za	2005			
4,	Mitrović, Č., G Šešlija. D.	Golubović,	Z., Im	plementacija, zna	ačaj i efekt	i filtracije u privredi	Istraživanja i projek privredu	tovanja za	2006			



UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Course:										
Course	id:	BMIM5C	Brain Computer Interface							
Number	of ECTS:	7								
Teache	rs:		Sovilj M. Pl	aton, Jorgovar	nović Đ. Ni	kola				
Course	status:		Elective							
Number	of active tead	hing classe	es (weekly)							
L	ectures:	Practical	classes: Other teaching types: Study research work: Other classes:							
3 2			2	2 0		0				
Precond	lition courses			None						
1. Educ	ational goal:									
Acquisit	ion of basic kr	nowledge ir	n the field of	Brain Compute	er Interface	e System.				
2. Educ	ational outcom	nes (acquire	ed knowledg	e):						
understanding applications and principles of Brain Computer Interface systems; the ability to work in interdisciplinary teams of biomedical engineers, doctors and psychologists for understanding and solving problems related to the application of Brain Computer Interface systems; the ability to search the literature and other forms of information in the field of Brain Computer Interface systems and ability of presentation of research results; good knowledge and understanding of the application of electrical and computer engineering in Brain Computer Interface systems.										
3. Course content/structure:										
Origin of Brain Computer Interface (BCI) systems. Differences Brain Computer Interface systems and neural prostheses. Brain Computer Interface systems researches with people. Invasive Brain Computer Interface systems. Improvement of visual features using Brain Computer Interface System. Improvement of movements using Brain Computer Interface System. Improvement of movements using Brain Computer Interface Systems. Partly invasive Brain Computer Interface systems based electrocorticography (ECOG). Noninvasive Brain Computer Interface systems based on electroencephalography (EEG). Noninvasive Brain Computer Interface systems based on magnetoencephalography (MEG). Noninvasive Brain Computer Interface systems based on receiver ELF / SLF / ULF frequencies. Commercial Brain Computer Interface systems for people with disabilities. Commercial Brain Computer Interface systems for entertainment and recreation.										
4. Teac	hing methods:									
Lecture	s, auditory exe	ercises, lab	aratory exer	cises, consulta	tions.					
				Knowledge	evaluation	(maximum 100 points)				
Pre-examination obligations			tions	ns Mandatory		Final e	kam	Mandatory	Points	
Laboratory exercise defence				Yes	50.00	Written part of the exam	 tasks and theory 	Yes	50.00	
					Liter	ature				
Ord.	A	Author			Title Publisher		er	Year		
1,	G. Schalk , J	. Mellinger	A Practical Guide to Brain-Computer Interfacing with BCI2000 Springer					2010		
2,	B. Graimann Pfurtscheller	, B. Allisor	n, G. Brain-Computer Interfaces: Revolutionizing Human- Computer Interaction Springer				2011			
3,	J. Wolpaw , I Wolpaw	E. Winter	Brain-Computer Interfaces: Principles and Practice Oxford University Press					2012		
4,	J. Principe, J Enderle	I. C. Sanch	Inex, J. Brain-Machine Interface Engineering Morgan & Claypool Publishers					2006		



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Magnetic-Resonance Devices in Biomedicine Number of ECTS: 7 Teachers: Sovilj M. Platon, Vujičić V. Vladimir Course status: Elective Number of active teaching classes (weekly) Elective Lectures: Practical classes: Other teaching types: Study research work: Other classes 3 2 2 0 0 Precondition courses None Image: Classes (weekly) Image: Classes (weekly) 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 0 0 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective litera search and to utilize other types of information sources in the field of magnetic resonance devices and systems. Ability to present re of the research. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of nuclear magnetic resonance devices. Stores systems and devices. 3. Course content/structure: Application of nuclear magnetic resonance devices. Description of magnetic system in nuclear magnetic resonance devices. Application of nuclear magnetic feelos. Gradient coins. Radiofrequency coils. Gradient coins. P									
Course id: BMIMSD Number of ECTS: 7 Teachers: Sovilj M. Platon, Vujičić V. Vladimir Course status: Elective Number of active teaching classes (weekly) Elective Lectures: Practical classes: Other teaching types: Study research work: Other classes: 3 2 2 0 0 Precondition courses None 0 0 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 0 0 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective litera search. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of the Electrical and Comprehension of nuclear magnetic resonance devices. Nuclear magnetic resonance systems and devices. 3. Ourse content/structure: Application of nuclear magnetic resonance systems and devices. Pulse sequences in magnetic resonance devices. Pulse sequences in magnetic resonance devices. Application funclear magnetic resonance devices. Resonance devices. Pulse sequences in magnetic resonance devices. Application funclear magnetic resonance devices. Resonance devices. Pulse sequences in magnetic resonance devices. Application seranignetic presonanc									
Number of ECTS: 7 Teachers: Sovilj M. Platon, Vujičić V. Vladimir Course status: Elective Number of active teaching classes (weekly) Elective Lectures: Practical classes: Other teaching types: Study research work: Other classes 3 2 2 0 0 Precondition courses None 0 0 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 2 2 0 0 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective litera search. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of the Electrical and Comp Engineering in the field of magnetic resonance systems and devices. 3. Course content/structure: Application of nuclear magnetic resonance devices. Pulse sequences in magnetic resonance devices. Nuclear magnetic resonance sectroscopy in biomedicine. Physical principles of nuclear magnetic resonance devices. Pulse sequences in magnetic resonance devices. Appli of superconductors for creating magnetic fields. Radiofrequency source, imguise programmer, radiofrequency amplifer. Img of supreconductors for creating magnetis f									
Teachers: Sovilj M. Platon, Vujičić V. Vladimir Course status: Elective Number of active teaching classes (weekly) Study research work: Other classes 3 2 2 0 0 Precondition courses None 0 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 2 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective literr search and to utilize other types of information sources in the field of magnetic resonance devices and systems. Ability to present re of the research. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of the Electrical and Comprehension of the application of nuclear magnetic resonance devices. 3. Course content/structure: Application of nuclear magnetic resonance in biomedicine. Functional imaging with magnetic resonance devices. Nuclear magnetic resonance devices. Pulse sequences in magnetic resonance devices. The to components of nuclear magnetic resonance devices. Description of magnetic sesonance devices. The to components of nuclear magnetic resonance devices. Rouse grammer. Gradient ampretic resonance devices. The to components of nuclear magnetic resonance devices. Rouse grammer. Gradient ampretic resonance devices. The components of nuclear magnetic resonance devices. Rouse gramaner, radiofrequenc									
Course status: Elective Number of active teaching classes (weekly) Image: Course status: Practical classes: Other teaching types: Study research work: Other classes: 3 2 2 0 0 Precondition courses None Image: Course status: Image: Course									
Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Study research work: Other classes 3 2 2 0 0 Precondition courses None Image: Classes (action of the classes) None 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 2 2 0 0 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective litera search and to utilize other types of information sources in the field of magnetic resonance devices and systems. Ability to present re of the research. Ability to work in a multidisciplinary team environment with biomedicial engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of the Electrical and Comprehension of nuclear magnetic resonance systems and devices. 3. Course content/structure: Application of nuclear magnetic resonance spectroscopy in biomedicine. Physical principles of nuclear magnetic resonance devices. Description of magnetic system in nuclear magnetic resonance devices. Pulse sequences in magnetic resonance devices. The tomos of superconductors for creating magnetic fields. Gradient coils. Radiofrequency coils. Gradient impulse programmer, Gradient ampRadiofrequency detector and radiofrequency digitzers. Radiofrequency course, impulse programmer, radiofrequency amplifier. ImpRadiofrequency									
Lectures: Practical classes: Other teaching types: Study research work: Other classes 3 2 2 0 0 Precondition courses None 0 0 0 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. 2 2 2 0 0 2. Educational outcomes (acquired knowledge): Understanding of working principles and application of nuclear magnetic resonance devices. Ability to perform an effective litera search and to utilize other types of information sources in the field of magnetic resonance devices and systems. Ability to present re of the research. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem so related to nuclear magnetic resonance devices. Knowledge and comprehension of the application of the Electrical and Comprehension of the application of nuclear magnetic resonance systems and devices. 3. Course content/structure: Application of nuclear magnetic resonance in biomedicine. Functional imaging with magnetic resonance devices. Nuclear magnetic resonance devices. Pulse sequences in magnetic resonance devices. Applic of superconductors for creating magnetic resonance devices. Description of magnetic system in nuclear magnetic resonance devices. Applic of superconductors for creating magnetic fields. Gradient coils. Radiofrequency coils. Gradient impulse programmer. Gradient amp Radiofrequency detector and radiofrequency digitizers. Radiofrequency source, impulse programmer, radiofrequency amplifer.									
3 2 2 0 0 Precondition courses None 0 1. Educational goal: Acquiring knowledge in the field of design magnetic resonance devides in biomedicine. Image: Constraint of the second consecond constraint second constraint second cons									
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4. Teaching methods:									
Pre-examination obligations Mandatory Points Final exam Mandatory Points Laboratory exercise defence									
Literature									
Ord. Author Inte Publisher Y 1 C. D. Slighter Dringinles of magnetic resenance Coringer Verlag 100									
K. Kamienska; W. Schilf; C.									
2, J. Jameson; A. C. De Dios; S. Nuclear Magnetic Resonance Royal Society of Chemistry 201 Kuroki									
3, G. D. Baura Medical device technologies : a systems based overview using engineering standards Elsevier/Academic Press 201									
4,P. SoviljEksterno testiranje površinskih kalemova uređaja za magnetsku rezonancuFakultet tehničkih nauka u Novom Sadu200									
5, J.D. Bronzino Biomedical Engineering Handbook CRC Press LLC 200									
6, V. Baltić Nuklearna magnetna rezonancija u onkologiji I Znamenje 200									



Study Programme Accreditation

Biomedical Engineering



 MASTER ACADEMIC STUDIES

 Table 5.2 Course specification

Course:										
Course	id:	PP2I12	Design of prosthetic devices							
Number	of ECTS:	6								
Teachers:			Zeljković V. Milan, Tabaković N. Slobodan							
Course	status:		Elective							
Number	of active tead	hing classe	es (weekly)							
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:	
	3	() 2 0 0				0			
Precond	dition courses	-		None						
1. Educ	ational goal:			-						
Acquisition of basic theoretical and practical knowledge in the field of designing prosthetic devices in the skeletal prosthetics.										
2. Educational outcomes (acquired knowledge):										
Introduction to the geometrical structure and design methods of prosthetic devices. Input into the design process. Design methods. The characteristics and structure of software systems. Computer analysis of the results. Procedures for Design Automation prosthetic devices.										
3. Course content/structure:										
Fundamentals and basic concepts in the design of skeletal prosthetics. The structure and characteristics of prosthetic devices. Fundamentals of Geometry lower extremity prosthesis. Fundamentals of Geometry upper extremity prostheses. Other skeletal prostheses. Methods of product. The structure of software systems for development and design of product. Computer analyzes of prosthetic devices in operation by using CAE software and virtual reality.										
4. Teaching methods:										
Teaching is performed in the form of interactive lectures, computer exercises and through consultation. In lectures, theoretical characteristic of the material is illustrated with examples. Through computer exercises apply their knowledge to solve a specific task. In addition to lectures and exercises are regularly held and consultation. Exam score is based on: the presence of lectures and exercises, and successfullysolved tasks (two tasks), the success of the written and the verbal part of the exam.										
				Knowledge e	evaluation	(maximum 100 points)			-	
Pre-examination obligations			Mandatory	Points	Final e	xam	Mandatory	Points		
Exercise attendance			Yes	5.00	Written part of the exam	- tasks and theory	Yes	30.00		
Graphic paper			Yes	20.00	Oral part of the exam		Yes	40.00		
Ord	Δ	uthor	Title Dublicher					or .	Vear	
1,	Bronzino, J.		The E	Biomedical En	gineering	HandBook, Second CRC Press			2000	
2,	Leondes, C.		Biom	Biomechanical Systems: Techniques and Applications, Volume I: Computer Techniques and Computational Methods in Biomech				2000		
3,	Moratal, D.		Finite Element Analysis - From Biomedical InTeO					2012		


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

0

Points

70.00

Study Programme Accreditation MASTER ACADEMIC STUDIES

Biomedical Engineering

Course: Data analysis in clinical research BMIM4E 6 Teacher: Simić S. Dragan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Study research work: Other classes: 3 2 1 0 Precondition courses None 1. Educational goal: Acquisition of basic knowledge about the importance and role of data analysis in the clinical and medical research. 2. Educational outcomes (acquired knowledge): Acquiring theoretical and practical knowledge and skills in data collection and analysis in clinical and medical research. 3. Course content/structure: Importance and role of data analysis. The importance, the role and method of data collection. Application of various techniques and applications for data collection in medical research. The application of different technologies, techniques, methods and applications for data analysis in medical research. Data mining as the main technology for data analysis. Application of specific data mining techniques in finding hidden rules, laws and relationships in clinical medical data. Search techniques and data analysis aiming to identify the required samples and the correlation contained in large databases. Increasing the usability of the data analyzed medical research in the multidisciplinary field 4. Teaching methods: Lectures, exercises, computer exercises and continuous individual work. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory 20.00 Written part of the exam - tasks and theory Term paper Yes Yes Test 10.00 Yes Literature

Ord.	Author	Title	Publisher	Year
1,	Max Bramer	Principles of Data Mining	Springer	2007
2,	Ferdinand van der Heijden, Robert Duin, Dick de Ridder, David M. J. Tax	Classification, Parameter Estimation and State Estimation	Wiley-Blackwell	2004
3,	Jamie MacLennan, ZhaoHui Tang, Bogdan Crivat	Data Mining with Microsoft SQL Server 2008	John Wiley & Sons	2008
4,	Xindong Wu, Vipin Kumar	The Top Ten Algorithms in Data Mining	Chapman and Hall/CRC	2009

Course id: Number of ECTS:



Course:

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



Study Programme Accreditation MASTER ACADEMIC STUDIES

Management

Biomedical Engineering

Table 5.2 Course specification

Course:			<u></u> п	istributed	d meas	surement and a	caulisition sys	stems in			
Course	id:	BMIM5E				biomedicine	9				
Number	of ECTS:	7									
Teacher	r:		Sovilj M. Platon								
Course	status:		Elective								
Number	of active teac	hing classe	es (weekly)								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:		
	3	2	2	2		0		0			
Precond	lition courses		-	None							
1. Educ	ational goal:										
Acquirin	ig knowledge i	n the field	of distributed	measurement	-acquisitic	on systems in biomedicine	9.				
2. Educ	ational outcom	es (acquir	ed knowledge	e):							
Underst in a mul acquisiti Ability to the pro measur acquisit	Jnderstanding of application, structure and technology of the distributed measurement-acquisition systems in biomedicine. Ability to work n a multidisciplinary team environment with biomedical engineers and doctors on the problem solving related to distributed measurement- acquisition systems in biomedicine. Ability to present results of the research. Ability to work in a multidisciplinary team environment with biomedical engineers and doctors on the problem solving related to distributed measurement-acquisition systems in biomedicine. A good knowledge of distributed measurement-acquisition systems modules in biomedicine. Designing knowledge and skills in the field of distributed measurement- acquisition systems in biomedicine.										
3. Cours	se content/stru	cture:									
Structur acquisit measur impleme systems dedicate systems services deployn languag level se measur measur	re of distribute ion systems in ement-acquisi entation in dist s in biomedici ed embedded s in biomedici s. Examples of nent. Progran le. Examples c rver in distribu ement-acquisi ement-acquisi	ed measur in biomedic tion system ributed me ine. Stand digital clin nming and of DotNET, uted meas tion system	ement-acquis cine: intellige ms. Acquisitio asurement-a l-alone client and general p il systems for ic laboratorie d client modu JAVA, PHP urement-acq ms in biomed	sition systems nt sensors, de on modules ex cquisition syst t applications burpose mobil data acquisit s in distributed Jle deployme and Phyton ac uisition system icine. Subsyst icine.	s in biome edicated e xpansion v tems in bio and web e devices tion. Integ d systems nt. Acquis cquisition e ms in bior tems for a	edicine. Types of acquisi embedded measurement with integrated web serv- omedicine. Client applica o client applications. Clies a Cloud service integrati gration of distributed mea b. Programming and deplo sition embedded web s embedded web aplication medicine. Practicum and automatic calibration, test	tion modules in distr -acquisition systems ers and web applicat tion in distributed me ent devices: general on in distributed mea asurement-acquisition byment acquisition me ervers implemented is. Practicum and exa examples of client r ting and metrological	ibuted meas and comput ions. Role an asurement-ad purpose co asurement-ad n systems wi odules. Serve into C prog imples of inte nodules in d support in d	urement- er based nd server cquisition mputers, cquisition ith health er module ramming ermediate istributed istributed		
4. Teacl	hing methods:										
Lectures	s, auditory pra	ctice, labor	ratory practice	e, consultation	S.						
				Knowledge e	evaluation	(maximum 100 points)					
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points		
Comput	er excersise d	efence		Yes	50.00	Written part of the exam	- tasks and theory	Yes	50.00		
Literature											
Ord.	A	Author Title Publisher Year							Year		
1,	F. Davoli		Remo		ation Serv	vices on the E-	Springer		2011		
2,	A. A. Ardama	in	Distri	buted Data Ac	quisition S	sition System for Laboratory University of Florida 1986					
3,	A. Lazakidou		Hand	book Of Rese	arch On D	Distributed Medical	Idea Group Inc.		2009		
4,	A. Lymberis		Wear	able EHealth	Systems F	For Personalised Health	IOS Press		2004		





Study Programme Accreditation

Biomedical Engineering

Table 5.2 Course specification

Course:											
Course	id:	BMIM4F		Biotribology							
Number	of ECTS:	6									
Teache	r:		Sovilj N. B	ogdan							
Course	status:		Elective								
Number	of active teac	hing classe	es (weekly)								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	isses:		
	3		2	1		C		0			
Precond	lition courses	-		None							
1. Educ	ational goal:										
To mas analysis	ter the basic s of various m	concepts i nedical imp	n the field o plants.	of biotribology.	To get a	opropriate knowledge ne	ecessary for the biotr	ibological de	sign and		
2. Educ	ational outcom	nes (acquir	ed knowledg	je):							
The abi of poter	lity of critical e itial materials.	valuation o	of research i	n the field of bi	otribology	. The possibility of biotrib	ological design of art	ificial joint for	a variety		
3. Cours	se content/stru	icture:									
Tribolog Properti selectio Friction	y and biotribo ies of connect n criterion. Fri of skin. Ocula	ology. Intro ive tissues iction, wea ar tribology	duction to b related to b r and lubrica	iotribology. Ov piotribology of t ation of orthope	erview of he locomo edic impla	biotribology in various bi otive system. Tribology o nts. Artificial joints. Wear	ological systems. Pri f natural joint. Biomat of dentures. Wear of	nciples of bic terials and bi f artificial hea	tribology. omaterial irt valves.		
4. Teac	hing methods:										
Lecture present Apart fr	s are realized ed with charac om lectures a	interactive cteristic exa nd practica	ely through amples for t I classes, co	lectures, audito better understa onsultations are	ory, labora nding of s e held reg	atory and computer prac ubject content. Practical ularly.	tical classes. In lectu work is performed by	res theoretic computer ap	al part is		
				Knowledge e	evaluation	(maximum 100 points)		-			
	Pre-examina	ation obliga	tions	Mandatory	Points	Final e	xam	Mandatory	Points		
Exercise	e attendance			Yes	5.00	Written part of the exam	- tasks and theory	Yes	40.00		
Lecture	attendance			Yes	5.00	Oral part of the exam		Yes	30.00		
rempa				Yes	20.00	atura					
Ord	^	uthor	Literature bor Title Dublisher Voor								
010.	P B lyković	Multion	Tribologija								
1, 2.	P. Davim		Biotribology University of Aveiro 2010					2010			
3,	M. Furey, B.	Burkhardt	Biot	ribology: Frictic	n, wear, a	nd lubrication of natural	Lubrication Science Issue 3	e, Vol. 9.	1997		
4,	J. A. Williams	S	Eng	ineering tribolo	gy		Oxford University P	ress	2000		





Study Programme Accreditation MASTER ACADEMIC STUDIES

Biopolymers

Biomedical Engineering

Shrewsbury

Table 5.2 Course specification

Course:										
Course	id:	BMIM4G		Biomaterials						
Number	of ECTS:	6								
Teacher	:	E	3aloš S. Seb	astian						
Course	status:	E	Elective							
Number	of active teac	hing classes	(weekly)							
Le	ectures:	Practical cl	lasses:	Other teaching	ng types:	Study resea	arch work:	Other cla	asses:	
	3	2		1		0		0		
Precond	lition courses		-	None						
1. Educa	ational goal:									
Obtainin	Obtaining knowledge in the field of biomaterials.									
2. Educa	ational outcom	nes (acquired	knowledge)):						
Knowled	dge obtained is	s applied in s	election of b	iomaterials o	n the basi	s of their properties.				
3. Cours	se content/stru	icture:								
Lectures methods	s comprise of s of characteri	metallic, poly sation. Laboi	mer, cerami ratory excers	ic and compo sizes deal wit	site bioma h biomate	aterial study, in terms of f erial structure, mechanica	abrication, characteri I properties and biom	stics, applica aterial selec	ations and tion.	
4. Teach	ning methods:									
Lecture appropr knowlec classsic	s are interact iate engineer Ige, using lab exam.	tive, along w ring example oratory equi	vith auditori es that allow pment. Con	al and lebora w more effect sultations are	atory exe ctive unde e regularly	rcise. Lectures comprise erstanding. Auditorial an y held. Grades are base	e of the theoretical nd laboratory exerci d on lecture and exe	part accomp ses profour ercise attend	banied by Id lecture lance and	
				Knowledge e	valuation	(maximum 100 points)				
	Pre-examina	tion obligatio	ons	Mandatory	Points	Final ex	am	Mandatory	Points	
Present	ation			Yes	10.00	Theoretical part of the ex	am	Yes	70.00	
Term pa	aper			Yes	20.00					
					Liter	ature				
Ord.	A	uthor			Title	•	Publishe	۶r	Year	
1,	Grupa autora	l voikombo	Bioma	terijali			Institut tehnickih na	uka SANU	2010	
2	JOHNSON, IVIN	aikambo,	Bionol	vmore			Shrowshury		2003	

2,

Tucker

2003



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical 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. Biomedical 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. Biomedical Engineering study programme is comparable and coordinated with:

1.http://www.bu.edu/bme/

2.http://seas.yale.edu/departments/biomedical-engineering

3.http://bioengineering.stanford.edu/

4.http://www.ibme.ox.ac.uk/

5.http://www.biomed.polimi.it/BioIntro/

Faculty members, assistants and students are actively involved in projects.



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

Study Programme Accreditation

Biomedical Engineering

Standard 07. Student Enrollment

MASTER ACADEMIC STUDIES

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

Candidates, who completed adequate undergraduate four-year academic studies worth at least 240 ECTS credits, which is defined by the Regulations of the Student Enrolment to the Study Programmes, may apply to the admission competition.

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

Candidates who completed the adequate study programme, according to the Committee's opinion, acquire the right to enroll the Graduate Academic Studies. The Committee for Quality makes the decision whether the candidates, who have the right to enroll, have to take the entrance examination. If the Committee for Quality makes the decision on taking the entrance examination, then the candidates take the entrance examination: Testing the knowledge in the field of the study programme.

The final ranking list for enrolment of the candidates is formed based on the success during previous education, on the duration of the studies and achieved success at the entrance examination, as defined by the Regulations of the Student Enrolment to the Study Programmes.

In accordance to the Regulations of the Student Enrolment to the Study Programmes, the Committee has the right to approve the enrolment of candidates who did not complete the adequate undergraduate academic studies lasting four years and worth at least 240 ECTS credits, only if there are free places left after all candidates, who fulfill the set conditions by the Competition (adequate undergraduate academic studies, passed entrance examination), had enrolled. Candidates who did not complete the adequate study programme of undergraduate academic studies, according to the professional opinion of the Committee, may be allowed to enroll if the entrance examination is passed. In this case, the Committee determines the difference in examinations that need to be passed from the undergraduate academic studies for each of these candidates individually. The sum of the ECTS courses which are determined by this difference must not exceed 30 (thirty).

The members of the Committee for Quality are the managers of the given study programme and the heads of the departments of the study programmes these courses belong to, or professors assigned by the heads of the departments in accordance to the Regulations of the Student Enrolment to the Study Programmes.



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

Study Programme Accreditation

Biomedical 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 (attendance at lectures, attendance at auditory, computer or laboratory practice, semestral papers, homework papers, scientific-professional projects, colloquiums, scientific papers, etc.) and taking the examination, and in accordance with the quality of acquired knowledge and skills.

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



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

Study Programme Accreditation

Biomedical Engineering

Standard 09. Teaching Staff

MASTER ACADEMIC STUDIES

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

The total number of teachers is adequate for the total number of classes at the study programme, and is proportional to the number of courses and number of hours on these courses. Quality and number of assistants is also adequate for the needs of the study programme. Total number of assistants on this study programme is sufficient to cover total number of hours for practice in this study program. Each teacher has at least five references in the scientific or professional field taught at the study programme. All information regarding the teaching staff and assistants (CV, appointments, references) are available to public within the board of scientific workers on the website of the Provincial Secretariat for Science and Technological Development.



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Bajić D. Dragana				
Acad	lemic title:				Full Professo	r			
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Tee	Faculty of Technical Sciences - Novi Sad			
starti	ng date:				22.09.2000				
Scier	ntific or art f	ield:			Telecommuni	Telecommunications and Signal Processing			
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title el	lection:	2006	Faculty of Technical Science	ences - Novi Sa	ad	Telecommunications and Signal Processing		
PhD	thesis		1995	School of Electrical Engi	ineering - Beog	jrad	Telecommunications and Signal Processing		
Magi	ster thesis		1989	School of Electrical Engi	ineering - Beog	jrad	Telecommunications and Signal Processing		
Bach	elor's thesis	S	1984	School of Electrical Engi	ineering - Beog	jrad	Telecommunications and Signal Processing		
List c	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		
1.	EK313	Compu	uter Commu	inication		(S01) Pos Undergrad	tal Traffic and Telecommunications, uate Academic Studies er Electronic and Telecommunication		
						Engineerin	g, Undergraduate Academic Studies		
2.	BMI105	Statisti biomeo	ical basics, dical signals	processing and modelling	of	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
3.	BMI123	Advan	ced biomed	ical signal analysis		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
	FK000	0		- 4		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
4.	EK202	Comm	unication n	etworks - Introduction		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	EK458	Teleco	ommunicatio	on networks		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
6.	EK460	Biome	dical signal	processing		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
7.	ETI21	Comm	unication P	rotocols		(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies		
8.	DE110S	Stocha	astic Proces	ses in Telecommunication	ns	(E11) Pow Engineerin	1) Power, Electronic and Telecommunication neering, Specialised Academic Studies		
9.	DE411S	Signal	processing	in medical research		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
40	FKEDD	Neelie	e en Diemeed			(OM1) Ma Studies	thematics in Engineering, Master Academic		
10.	EK930	NONIIN	ear Biomeo	Ical Signal Processing		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
11.	EK531	Multius	ser Detectio	n		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
12.	SI029	Biome	dical signal	processing		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
13.	BMIM2B	Biome	dical statist	cs		(BM0) Bio	medical Engineering, Master Academic Studies		
14.	BMIM2C	Multiva	ariable anal	ysis and complexity of phy	siological	(BM0) Bio	medical Engineering, Master Academic Studies		
15.	BMIM2D	Inform	ation theory	in biosystems		(BM0) Bio	medical Engineering, Master Academic Studies		
16.	EK550	Speec	h Technolo	gies		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
		o	-			(E10) Pow Engineerin	- ver, Electronic and Telecommunication g, Doctoral Academic Studies		
17.	DE110	Stocha	astic Proces	ses in Telecommunication	ns	(OM1) Ma Studies	thematics in Engineering, Doctoral Academic		
18	DF411	Signal	Processing	in Medical Research		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
10.		Signal	rocessing			(OM1) Ma Studies	thematics in Engineering, Doctoral Academic		
Rep	presentative	e refferei	nces (minim	num 5, not more than 10)					



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Rep	Representative refferences (minimum 5, not more than 10)								
1.	Dragana Bajić: Search, Sequences, Synchronization and States: a different approach, Novi Sad, FTN, recenzenti: dr Werner Teich, University of Ulm, dr Tricia Willinks, CRC Otawa Canada, 2006. 242str., ISBN 86-7892-024-6.								
2.	Reichman A., Tacada J., Bajić D., et al: Body Communications, in: Roberto Verdone; Alberto Zanella, (Eds.): Pervasive Mobile and Ambient Wireless Communications, Springer, 2012, Hardcover, pp 609-660, ISBN 978-1-4471-2314-9								
3.	Bajić D.: Sequence synchronization technique, in: L. Correia (Ed) Towards Mobile Broadband Multimedia Networks,, Academic Press Elsevier Ltd, Oxford U.K, 2006,ppr. 77-79, ISBN 13: 978-0-12-369422-								
4.	Bajić D., Drajić D.: Statistical Analysis of Digita Processing for Magnetic Recording Systems, ,	al Signals and System CRC Press LLC, New	is, in: Bane Vasić v York, 2005,pp. 7	, Erozan Kurtas (ED): Codin(7-7, ISBN 0-8493-1524-7	g and Signal				
5.	Stefanović Č., Bajić D.: On the Search for a Se Streams, IEEE Transactions on Communicatio	equence from a Prede ns, 2012, Vol. 60, No	efined Set of Sequ 1, pp. 189-197, IS	uences in Random and Fram SSN 0090-6778	ed Data				
6.	Lončar-Turukalo T., Japundžić-Žigon N., Bajić D.: Temporal Sequence Parameters in Isodistributional Surrogate Data: Model and Exact Expressions, IEEE Transactions on Biomedical Engineering, 2011, Vol. 58, No 1, pp. 16-24, ISSN 0018-9294								
7.	D. Drajić, D. Bajić: "Communication System Pe Communications Magazine, Vol. 40, No. 6, Ma	erformances – Achievi y 2002. pp 124-129 IS	ng the Ultimate Ir SSN 0163-6804.	formation-Theoretic Limits?	', IEEE				
8.	D. Bajić: "New simple method for solving the fir 1421. ISSN 0013-5194.	rst passage time prob	lem", Electronics	Letters, 1991, Vol. 27. No. 1	6, pp 1419-				
9.	D. Bajić, D. Drajić: "Time-varying Viterbi decod 0013-5194.	ing for correlated data	a", Electronics Let	ters, 1993, Vol. 29. No. 4, pp	335-337. ISSN				
10.	D. Bajić, D. Drajić: "Information theory approac 1667-1668. ISSN 0013-5194.	th to frame synchronis	ation problem", E	lectronics Letters, 1994, Vol	. 30. No. 20, pp				
Sur	nmary data for teacher's scientific or art and profe	essional activity:							
Quot	ation total :	156							
Tota	of SCI(SSCI) list papers :	14							
Curre	ent projects :	Domestic :	1	International :	3				



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	ame and last name:				Baloš S. Sebastian				
Acad	lemic title:				Assistant Professor				
Nam	lame of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad			
starti	ng date:				01.04.2001				
Scier	ntific or art f	ield:			Material Science and Engineering Materials				
Acad	lemic cariee	er	Year	Institution		Field			
Acad	ademic title election: 2011 Faculty of Technical S				ences - Novi S	ad	Material Science and Engineering Materials		
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Material Science and Engineering Materials		
Magi	ster thesis		2009	Faculty of Technical Sci	ences - Novi S	ad	Material Science and Engineering Materials		
Bach	elor's thesis	5	2000	Faculty of Technical Sci	ences - Novi S	ad	Material Science and Engineering Materials		
List c	of courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	S			
	ID	Course	e name			Study pro	gramme name, study type		
1.	P206	Weldin	ng Technolo	ogy		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
2.	P2406	Compo	osite Materi	als		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
3.	P2409	Moder	n Joining T	echnologies - 1		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P2409A	Moder	n Joining T	echnologies - 2		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
5.	P4406	Joining	g Technolog	gy of Modern Materials		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	II1001	Engine	ering mate	rials		(110) Industrial Engineering, Undergraduate Academic Studies			
7.	M2062	Mecha	inical engin	eering technologies 2		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies(M40) Technical Mechanics and Technical Design,			
						Undergrad (M30) Ene	uate Academic Studies		
ð.	M3203	Techno	ology of ma	icninery		Àcadémic	Studies		
						Undergrad	uate Academic Studies		
9.	2003	Electro	omechanica	II materials		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies			
10.	P2501	Proces	ss Design ir	NWelding Technology		(PM0) Production Engineering, Master Academic Studies			
11.	BMIM4G	Bioma	terials			(BM0) Biomedical Engineering, Master Academic Studies			
12.	PPI106	Joining	g technolog	ies in precision engineerir	ıg	(PM0) Pro	duction Engineering, Master Academic Studies		
13.	PTS01	Techn	ology of sin	tering		(PM0)Pro	duction Engineering, Master Academic Studies		
14.	DP001	Desigr Engine	and Resea	arch Methods in Productio	n	(M00) Med	chanical Engineering, Doctoral Academic Studies		
15.	SAP002	Engine	ering Mate	rials		(M00) Med	chanical Engineering, Doctoral Academic Studies		
16.	DP023	Joining	g technolog	ies - selected topics		(M00) Med	chanical Engineering, Doctoral Academic Studies		
17.	DP024	Weldin	ng technolog	gy - selected topics		(M00) Med	chanical Engineering, Doctoral Academic Studies		
18.	8. DP025 Materials Corrosion and Protection					(M00) Mea	chanical Engineering, Doctoral Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)					
1.	Baloš S., Šiđanin (Sidjanin) L.: Metallographic study of non-homogenousarmour impacted by armour-piercing incendiary ammunition, Materials and Design, 2011, Vol. 32, pp. 4022-4029, ISSN 0261-3069								
2.	2. Baloš S., Arlan B., Alan P.: Roman mystery iron blades from Serbia , Materials Characterization, 2009, Vol. 60, No 4, pp. 271- 276, ISSN 1044-5803								
3.	Baloš S., Šiđanin (Sidjanin) L.: Microdeformation of soft particles in metal matrix composites, Journal of Materials Processing Technology, 2009, pp. 482-487, ISSN 0924-0136								
4.	Baloš S., Suppleme	Arlan B ent S02,	., Alan P.: , pp. 1100-1	Roman mystery iron blade 1101, ISSN 1431-9276	es from Serbia,	Microscopy	and microanalysis, 2007, Vol. 13, No		
5.	Baloš S., 1293-130	Grabulo 1, ISSN	ov V., Šiđar I 0261-3069	nin (Sidjanin) L., Pantić M. 9	: Wire fence a	s applique a	rmor, Materials and Design, 2010, Vol. 31, pp.		

51	TAS STUD		UNIVERSITY OF NO	VI SAD		WUKHX Ha					
A	C HOR	FACULTY OF TECHNICAL SC	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6								
NO.N		Study F	Study Programme Accreditation								
.01	LANTEN	MASTER ACADEMIC STUDIES			Biomedical Engineering	HOS					
Rep	presentative r	efferences (minimum 5, not more th	an 10)								
6.	Baloš S., Grabulov V., Šiđanin (Sidjanin) L., Pantić M., Radisavljevic I.: Geometry, mechanical properties and mounting of perforated plates for ballistic application, Materials and Design, 2010, Vol. 31, pp. 2916-2924, ISSN 0261-3069										
7.	Vrač D., Šio cutting ang	đanin (Sidjanin) L., Kovač P., Baloš le and coefficients of friction, Indust	S.: The influence of h rial Lubrication and Tri	iohning process p ibology, 2012, Vo	parameters on surface quality I. 64, No 2, pp. 77-83, ISSN	y, productivity, 0036-8792					
8.	Lazarević Z Nanostruct	., Jovalekić Č., Sekulić D., Slankan ured Spinel NiFe2O4 Obtained by S	nenac M., Romčević M Soft Mechanochemical	I., Milutinović A., l Synthesis, Scien	Baloš S., Romčević N.: Cha ce of Sintering, 2012, Vol. 4	racterization of 4, No 3					
9.	Vrač D., Šio and Tribolo	đanin (Sidjanin) L., Baloš S.: Mech gy, 2011, Vol. 63, No 6, pp. 427-43	anical finishing honing 2, ISSN 0036-8792	: cutting regimes	and surface texture, Industri	al Lubrication					
10.	Baloš S., B microwave	alos T., Šiđanin (Sidjanin) L., Marko energy, Materiale Plastice, 2011, V	ović D., Pilić B., Pavliče ol. 48, No 02, pp. 127-	ević J.: Study of I -131, ISSN 0025-	PMMA biopolymer properties 5289	s treated by					
Sur	Summary data for teacher's scientific or art and professional activity:										
Quot	Quotation total : 15										
Total of SCI(SSCI) list papers : 13											
Curre	ent projects :		Domestic :	2	International :	0					



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

State State

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:				Bojanić M. Dubravka				
Acad	lemic 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	
starting date:					24.06.2003			
Scientific or art field:					Automatic Co	Automatic Control and System Engineering - biomedicine		
Acad	lemic cariee	er	Year	Institution			Field	
Acad	lemic title el	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering - biomedicine	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Magi	ster thesis		2003	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering	
Bach	elor's thesis	S	1998	School of Electrical Eng	ineering - Beog	grad	Automatic Control and System Engineering	
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1	ΔU42	Techn	ical Equipm	ent for Control Systems		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
1.	7042			ient for Control Systems		(MR0) Me Undergrad	asurement and Control Engineering, luate Academic Studies	
						(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
2.	AU43	Funda	mentals of	Biomedical Engineering		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
3	AU47	DSP A	oplications	in Control Systems		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
						(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
4.	AU49	Metho	ds of Medic	al Image Forming and An	alysis	(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
5.	AUN43	Biome	dical Engin	eering Technologies		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
6.	GI007	Digital	Signal Pro	cessing in Geomatics		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
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	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		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
13.	E2314	Microp	processor B	ased Control Devices		(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
14.	SEAU03	Real-time control algorithms		algorithms		(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
15.	SEAU05	DSP Applications in Control Systems				(SE0) Sof	tware Engineering and Information Technologies, luate Academic Studies	
				-		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
16	SEALI07	Signal	s and syste	ms		(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
	007	Cignal				(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering



	ID	Course name	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Study programme name, study type						
17.	SEAU08	Microprocessor Based Control Devic	ces	(SE0) Software Undergraduate A (SEL) Software Loznica, Underg	Engineering and Information Academic Studies Engineering and Informatior raduate Academic Studies	n Technologies, n Technologies -				
18.	AU503	Methods of Analysing Electrophysiol	ogical Signals	(E20) Computing and Control Engineering, Master Academic Studies						
19.	AU504	Movement Control		(E20) Computin Academic Studie	g and Control Engineering, I	Master				
20.	AU505	Veural Prostheses (E20) Computing and Control Engineering, Master Academic Studies								
21.	AU507	Principles of Biomedical Engineering)	(E20) Computin Academic Studie	g and Control Engineering, I es	Master				
22.	AU508	Information Flow in Medicine		(E20) Computin Academic Studie	g and Control Engineering, I es	Master				
23.	ВМІМЗА	Biophysiological systems modelling		(BM0) Biomedic	al Engineering, Master Acad	lemic Studies				
24.	BMIM3C	Functional Electrical Therapy		(BM0) Biomedic	al Engineering, Master Acad	lemic Studies				
25.	SEAM01	Intelligent Control Systems		(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,				
26.	SEAM04	Soft Sensors		(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,				
27.	DAU007	Selected Topics in Artificial Intelliger Signal Processing	ice in Control and	(E20) Computing and Control Engineering, Doctoral Academic Studies						
28.	DAU008	Selected Chapters in Signal Process Engineering	sing in Biomedical	(E20) Computin Academic Studie	g and Control Engineering, I es	Doctoral				
29.	DAU009	Selected Chapters in Biomedical Ins Telemetry	trumentation and	(E20) Computin Academic Studie (OM1) Mathema	g and Control Engineering, I ss atics in Engineering, Doctora	Doctoral I Academic				
			40)	Studies						
Кер	presentative	e refferences (minimum 5, not more th	an 10)							
1.	Popovic-l electrical	Bijelic A., Bijelic G., Jorgovanović N., I stimulation , Artificial Organs, 2005,	Bojanić D., Popović M Vol. 29, No 6, pp. 448	., Popović D.: Mu -452, ISSN 0160-	Ilti-field surface electrode for 564X	selective				
2.	Congrada algorithm	ac V., Bojanić D., Čapko D.: Algorithm and fuzzy logic, Solar Energy, 2012,	for blinds control bas 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.	Bojanić D cerebral)., Petrovački-Balj B., Jorgovanović N. palsy, Journal of Neuroscience Metho	, Ilić V.: Quantification ds, 2011, No 198, pp.	of dynamic EMG 325-331, ISSN 0	patterns during gait in childr 165-0270	en with				
4.	Popovic, with Para and Educ	M.B., Jorgovanovic, N., Bijelic, G., Bo Ilysis, Proc of REDISCOVER 2004 So action in Control and Signal Processin	ojanic, D., Popovic, D. utheastern Europe, U g, June 14-16, 2004, (B., Synergistic Co SA, Japan and Eu Cavtat, Croatia, pp	ontrol of Grasping and Relea uropean Community Worksho o 86-89.	sing In Humans op on Research				
5.	Bijelic, G Generate	G., Jorgovanovic, N., Bojanic, D., Popc Grasp and Release by Surface Elect	vic-Bijelic, A., Popovic rical Stimulation, MED	c, D.B., Actitrode - ICON, Ischia, Jul	 a selective Array Electrode y 31-August 5, 2004. 	: A Tool to				
6.	Popovic- selective	Bijelic, A., Bijelic, G., Jorgovanovic, N electrical stimulation, Proc 8th Vienna	I., Bojanic, D., Popovic a Workshop on FES, S	c, D.B., Popovic, M ep 10-13, 2004.,	M.B., Multi-field surface elect pp 195-198	rode for				
7.	Bojanić D Symposiu 1-4244-0	D., Petrović R., Jorgovanović N., Popo um on Neural Network Applications in 432-0	vić D.: Dyadic Wavele Electrical Engineering	ts for Real-time H , IEEE, belgrade,	eart Rate Monitoring, 8. NEl 25-27 Septembar, 2006, pp	JREL - . 133-136, ISBN				
8.	Bojanic, and Biolo	D., Popovic, D.B., "QRS detection fro gical Engineering Conference, Vienna	om an ongoing ECG re a, December, 2002.	ecordings by using	g dyadic wavelets", 2nd Euro	pean Medical				
9.	Bojanić D Sadu, Fa).: Razvoj ekspertnog sistema za inter kultet tehničkih nauka, januar 2012.	pretaciju elektrofiziolo	ških signala, Dokt	orska disertacija, Univerzite	t u Novom				
10.	10. Bojanić Dubravka, "Detekcija QRS kompleksa u EKG signalu korišćenjem dyadic wavelet transformacije", Magistarska teza, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, Novi Sad, februar 2003.									
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
Quot	ation total :		62							
Total	otal of SCI(SSCI) list papers : 3									
Curre	ent projects	:	Domestic :	1	International :	1				



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:				Čapko Lj. Da	rko			
Acad	lemic title:				Assistant Pro	fessor		
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	ences - Novi Sad	
Starting date.					25.01.1999		aton Fasia atan	
Scientific or art field:				Institution	Automatic Co	Automatic Control and System Engineering		
Acad	iemic cariee	er	Year	Institution	Nevi O	1	Field	
Acad	thesis	lection:	2012	Faculty of Technical Sci	ences - Novi Si	ad	Automatic Control and System Engineering	
Magi	etor thosis		2012	Faculty of Technical Sci	oncos Novi S	au	Automatic Control and System Engineering	
Bach	elor's thesis		1002	Faculty of Technical Sci	ences - Novi S	au	Automatic Control and System Engineering	
List	of courses h	eina he	Id by the te	acher in the accredited stu	Idv programme		Automatic Control and System Engineering	
LISU		cing ne				.5		
	ID	Course	e name			Study pro	ogramme name, study type	
						(E20) Cor Academic	nputing and Control Engineering, Undergraduate Studies	
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
1	E000	Svotor	n Madalina	and Simulation		(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
1.	LZJZ	Syster	in wodening			(MR0) Me Undergrad	easurement and Control Engineering, luate Academic Studies	
						(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
						(SEL) Software Engineering and Information Technologi Loznica, Undergraduate Academic Studies		
2	H213	Syster	n Modelling	and Simulation 1		(GI0)Geo Studies	desy and Geomatics, Undergraduate Academic	
2.	11210	Oyster	in woodening			(H00) Med	chatronics, Undergraduate Academic Studies	
3.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
						 (E20) Computing and Control Engineering, Undergraduate Academic Studies 		
4.	E2312	Softwa	are design f	or SCADA systems		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
5.	ESI013	Multi-t	ier applicati	ons development in powe	r systems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
6.	ESI020	Data s	tructures ar	nd algorithms in power sys	stems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
7.	SEAU02	SCAD	A Software			(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
0	SEALIO0	Softwa	uro dobian a			(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
о.	SEAUU9	Sollwa	are design d	SCADA Systems		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
						(E20) Cor Academic	nputing and Control Engineering, Master Studies	
9.	AU502	Distributed Control Systems				(MR0) Me Academic	asurement and Control Engineering, Master Studies	
						(E10) Pow Engineerin	er, Electronic and Telecommunication ng, Master Academic Studies	
10.	BMIM3D	Development of integrated biomedical systems			ems	(BM0) Bio	medical Engineering, Master Academic Studies	
11.	E2533	Discre	te event sin	nulation		(E20) Cor Academic	nputing and Control Engineering, Master Studies	
10	FOFOF	Softwa	are Algorithr	ms in Supervisory Control	and Data	(E20) Cor Academic	nputing and Control Engineering, Master Studies	
12.	E2535	Acquis	ition Syster	ns		(E10) Pow Engineerin	er, Electronic and Telecommunication ng, Master Academic Studies	

FACULTY OF TECH

UNIVERSITY OF NOVI SAD

ANTAS STUDIO

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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

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

LISU	List of courses being heid by the teacher in the accredited study programmes									
	ID	Course name		Study program	ne name, study type					
13.	ESI024	Applied algorithms in power systems	3	(ES0) Power So Studies	ftware Engineering, Master	Academic				
14.	ESI034	Multi-tier applications development in	n Smart Grids	(ES0) Power So Studies	ftware Engineering, Master	Academic				
15.	SEAM06	06 Integration of Distributed Control Systems (SE0) Software Engineering and Information Technologies, Master Academic Studies								
16.	DAU006	Selected Chapters in Modeling and S Dynamic Systems	Simulation of	(E20) Computin Academic Studie	g and Control Engineering, [es	Doctoral				
17.	DAU018	Selected Chapters in Distributed Con	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 St	udies				
Rep	oresentative	refferences (minimum 5, not more th	an 10)							
1.	Vukmirov with hiera ISSN 187	ić S., Erdeljan A., Čapko D., Lendak I archical neural network", International '5-6891	., Nedić N., "Optimizat Journal of Computatic	ion of workflow so nal Intelligence S	cheduling in Utility Managem ystems., Vol. 4, No. 4, pp. 67	ent System 72-679, 2011.,				
2.	Vukmirov and Indus	ić S., Erdeljan A., Lendak I., Čapko D strial Research, Vol. 2010, No. 12, pp.	., "A novel software ar 937-941, 2010., ISSN	chitecture for Sma 1 0022-4456	art Metering systems", Journ	al of Scientific				
3.	Čapko D. Managen	, Erdeljan A., Vukmirović S., Lendak I nent Systems", Information technolog	., "A Hybrid Genetic A y and control, Vol. 40,	lgorithm for Partiti No. 4, 2011., ISS	oning of Data Model in Distr SN 1392-124X	ibution				
4.	Čapko D. Systems"	, Erdeljan A., Popović M., Švenda G., , Advances in Electrical and Compute	"An Optimal Initial Pa er Engineering, No. 4,	rtitioning of Large 2011., ISSN 1582	Data Model in Utility Manag 2-7445	ement				
5.	Nedić N., Workflow	Vukmirović S., Erdeljan A., Lendak I. Scheduling ", Information technology	, Čapko D., " A Geneti and control, Vol. 39, N	c Algorithm Appro	bach for Utility Management 5, 2010., ISSN 1392-124X	System				
6.	Vukmirov electrical	ić S., Erdeljan A., Čapko D., Lendak I engineering, Vol. 107, No. 1, pp. 59-6	., "Extension of the Co 34, 2011., ISSN 1392-	ommon Informatio 1215	n Model with Virtual Meter",	Electronics and				
7.	Čapko D. Systems"	, Erdeljan A., Švenda G., Popović M., , Electronics and electrical engineerin	"Dynamic Repartition g, Vol. 121, No. 4, pp.	ing of Large Data 83-85,2012., ISS	Model in Distribution Manag N 1392-1215	ement				
8.	Vukmirov Networks	ić S., Erdeljan A., Lendak I., Čapko D ", Journal of Applied Research and Te	., "Optimal Workflow S echnology, Vol. 10, No	Scheduling in Criti . 2, pp. 114-121,	cal Infrastructure Systems w 2012., ISSN 1665-6423	ith Neural				
9.	Vukmirov ROUMAI	ic, Srdjan; Erdeljan, Aleksandar; Lenc NE DES SCIENCES TECHNIQUES-S	lak, Imre; Capko, Darl SERIE ELECTROTEC	co: Unifying the C HNIQUE ET ENE	ommon Information Model (0 RGETIQUE 2012 57 (3):30	CIM), REVUE 1-310				
10.	Velimir C optimizat	ongradac, Marta Prica, Marija Paspalj ion of blind tilt angle using a genetic a	, Dubravka Bojanic, D Igorithm and fuzzy log	arko Capko: Algo ic,Solar Energy 8	rithm for blinds control based 6 (2012), pp 2762–2770	d on the				
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
Quot	Quotation total : 0									
Tota	of SCI(SS	CI) list papers :	10							
Curre	ent projects	:	Domestic :	1	International :	0				



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name: Damnjano					Damnjanović	ić S. Mirjana		
Acad	emic title:				Associate Pro	te Professor		
Name of the institution where the teacher works full time and Faculty of				acher works full time and	Faculty of Te	echnical Sciences - Novi Sad		
starting date: 01.09.1					01.09.1994	•		
Scientific or art field: Electr					Electronics			
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	lection:	2011				Electronics	
PhD	thesis		2006	Faculty of Technical Sci	ences - Novi S	ad	Electronics	
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Electronics	
Bach	elor's thesis	S	1994	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering	
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	
1.	H206	Introdu	uction to Ele	ectronics		(H00) Mec	chatronics, Undergraduate Academic Studies	
2.	H209	Digital	Electronics	3		(H00) Mec	chatronics, Undergraduate Academic Studies	
3.	BMI99	Electro	onics			(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
4.	E138A	Digital	Electronics	3		(E10) Powe	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
5.	EM407A	Compu	uter aided d	lesign of digital integrated	circuits	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
6.	DE302S	Desigr Protec	n and Chara tion	acterization of Component	s for EMI	(E11) Pow Engineerin	ver, Electronic and Telecommunication Ig, Specialised Academic Studies	
7.	DE502S	Micro-sensors and MEMS				(E11) Pow Engineerin	ver, Electronic and Telecommunication Ig, Specialised Academic Studies	
8.	EM423	EMI and EMC in Electronics				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
9.	BMIM1B	EMI and EMC in medicine equipment				(BM0) Bio	medical Engineering, Master Academic Studies	
10.	DE402S	Chosen areas of analogue, digital and RF integrate circuits design			ntegrated	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
11.	EM510A	Advan circuits	ced compu [.] S	ter aided design of microe	lectronic	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
12.	DE302	Desigr Protec	n and Chara tion	acterization of Component	s for EMI	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
13.	DE502	Micro-	sensors an	d MEMS		(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
14.	DE402	Chose circuits	n areas of a design	analogue, digital and RF ir	ntegrated	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)		· · ·		
1.	Raghave Varistor I 3106, UD	ndra R., nductor)K: 10.1	Bellew P., Integrated 109/LED.20	Mcloughlin N., Stojanović Passive Devices , IEEE E 004.838321	G., Damnjano lectron Devices	vić M., Desr s Letters, 20	nica V., Živanov Lj.: Characterization of Novel 004, Vol. 25, No 12, pp. 778-780, ISSN 0741-	
2.	Menićani Fixture , I 10.1109/	n A., Da IEEE Tra TMAG.2	mnjanović ansactions 2011.21507	M., Živanov Lj., Aleksić O. on Magnetics, 2011, Vol. 38	.: Improved Mo 47, No 10, pp.	odel of T-Ty 3975-3978,	pe LC EMI Chip Filters Using New Microstrip Test ISSN 0018-9464, UDK:	
3.	Damnjan Frequenc 0018-946	ović M., cy Shift o 34	Živanov Lj. of Zig-zag F	., Stojanović G., Menićanir ⁻ errite EMI Suppressor, IE	n A.: Influence EE Transactio	of Conducti	ive Layer Geometry on Maximal Impedance etics, 2010, Vol. 46, No 6, pp. 1303-1306, ISSN	
4.	Menićani Microstrip	n A., Da o Test F	imnjanović ixture, IEEE	M., Živanov Lj.: Paramete E Transactions on Magneti	ers Extraction c ics, 2010, Vol.	f Ferrite EM 46, No 6, pp	II Suppressors for PCB Applications Using b. 1370-1373, ISSN 0018-9464	
5.	Stojanovi EMI supp 10.1016/j	ić G., Da pression .microre	amnjanović , Microele el.2008.03.0	M., Živanov Lj.: Tempera ctronics Reliability, 2008, v 020	ture dependen Vol. 48, No 7, β	ce of electri op. 1027-103	cal parameters of SMD ferrite components for 32, ISSN 0026-2714, UDK:	
6.	Damnjan Inductive	ović M., Sensor	Živanov Lj , IEEE Tra	., Nađ L., Đurić S., Biberdž nsactions on Magnetics, 2	žić B.: A Novel 2008, Vol. 44, N	Approach t lo 11, pp. 41	to Extending the Linearity Range of Displacement 123-4126, ISSN 0018-9464	
7.	Stojanovi and mear 83, ISSN	ić G., Da nder ind 0304-8	amnjanović uctors emb 853, UDK:	M., Desnica V., Živanov L edded in ferrite material , 10.1016/j.jmmm.2005.02.0	.j., Raghavendı Journal of Mag)58	a R., Bellew netism and	v P., Mcloughlin N.: High performance zig-zag Magnetic Materials, 2006, Vol. 297, No 2, pp. 76-	



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

Study Programme Accreditation





Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Dautović B. Staniša				
Acad	lemic title:				Assistant Pro	fessor			
Name of the institution where the teacher works full time and				acher works full time and	Faculty of Technical Sciences - Novi Sad				
starting date:					01.01.1993				
Scientific or art field:				-	Theoretical E	Theoretical Electrotechnics			
Acad	lemic caries	er	Year	Institution			Field		
Acad	lemic title e	lection:	2010	Faculty of Technical Sci	ences - Novi S	ad	Theoretical Electrotechnics		
PhD	thesis		2009	Faculty of Technical Sci	ences - Novi S	ad	Theoretical Electrotechnics		
Magi	ster thesis		1997	Faculty of Sciences - No	ovi Sad		Mathematics		
Bach	elor's thesis	S	1991	Faculty of Technical Sci	ences - Novi S	ad	Theoretical Electrotechnics		
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.	E128F	Electri	cal Circuit T	Theory		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	E128A	Electri	cal Circuit T	Theory		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
3.	EM408A	RF and	d microwav	e electronics		(E10) Pow Engineerin	er, Electronic and Telecommunication Ig, Undergraduate Academic Studies		
4.	EM420A	Modell	ling and sim	ulation of RF and microw	ave circuits	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	EM458	Syster	n Level Des	sign		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
6.	DE200S	Algorithms and Complexity-an Advanced C			ourse	(E11) Pow Engineerin	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
7.	DE300S	Randomised Approximation Algorithms				(E11) Pow Engineerin	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
8.	DE516S	Algoritmi za multiprocesorske sisteme				(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
9.	EM503	Algorithm Heuristics				(E10) Pow Engineerin	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
10.	BMIM1C	Bioinfo	ormatics Alg	jorithms		(BM0) Bio	medical Engineering, Master Academic Studies		
11.	EM405A	Forma	Ine metode	projektovanja i verifikacije	e hardvera	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
12.	EM415A	Algorit	hms for VL	SI Physical Design Autom	ation	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
13.	EM518A	Advan circuits	ced simulat	ion techniques of RF and	microwave	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
14.	DE200	Algorit	hms and C	omplexity-an Advanced C	ourse	(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
15.	DE300	Rando	mised App	roximation Algorithms		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
16.	DE516	Algorit	mi za multi	procesorske sisteme		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.	DAUTOV on Comp	′IĆ,S., N uters, V	IOVAK,L., A ol. 55, No.	A Comment on "Boolean F 8, (2006), 1067-1069.	unctions Class	ification via	Fixed Polarity Reed-Muller Form". IEEE Trans.		
2.	SEŠIĆ,A Probabili 2008	., DAUT stic Mod	OVIĆ,S., M lel Checking	ALBAŠA,V., Dynamic Pov g. IEEE Transactions on (wer Manageme Computer-Aide	ent of a Syst d Design of	em with a Two-Priority Request Queue Using Integrated Circuits and Systems, 27(2). Feb		
3.	 Tosic,M., Cirilovic,M., Ikovic,O., Kesler,D., Dautovic,S. Boscovic,D., Impact of Different Content Placement and Delivery Strategies on Content Delivery Capacity of the Wireless Mesh Networks, in Xiang-Yang Li, Symeon Papavassiliou, Stefan Rührup (Eds.): Ad-hoc, Mobile, and Wireless Networks - 11th International Conference, ADHOC-NOW 2012, Belgrade, Serbia, July 9-11, 2012, Proceedings, Lecture Notes in Computer Science 7363 Springer 2012, ISBN 978-3-642-31637-1 pp. 302-315 								
4.	Kesler D. Symposi	, Dautov um on Ir	vić S., Struł itelligent sy	narik R.: Design and Verif stems and Informatics, Su	fication of Dyna ubotica, 20-22	amically Rec Septembar,	configurable Architecture, 10. SISY - International 2012		
5.	Dautović Symposiu	S., Vrar um on P	njković V., N Power Electi	/ukobratović B.: Boolean ronics – Ee, Novi Sad, 26-	Function Minin 28 Oktobar, 20	nization for I 011, ISBN 9	Memristive Logic Circuits, 16. International 78-86-7892-355-5		

c	TAS STU		UNIVERSITY OF NO	VI SAD		WKNX (
ANNUM SS		FACULTY OF TECHNICAL SC	TEJA OBRADOVIĆA 6	SUM					
		Study Programme Accreditation							
		MASTER ACADEMIC STUDIES Biomedical Engineering							
Re	Representative refferences (minimum 5, not more than 10)								
6.	6. Struharik R., Vranjković V., Teodorović P., Dautović S.: A Survey of Nanoelectronic Computing Architectures, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, ISBN 978-86-7892-355-5								
7.	Bošković D., Faramak V., Tošić M., Dautović S.: Pervasive wireless CDN for greening video streaming to mobile devices, 34. 7. MIPRO - International convention on information and communication technology, electronics and microelectronics - Savjetovanje o mikroračunalima u telekomunikacijama. Opatija. 23-27 Mai. 2011								
8.	Vukobratov Beograd, 2	ić B., Dautović S.: Probabilistic Mo 5-27 Novembar, 2008	del Checking of Resis	tive Electrical Cire	cuits, 16. Telekomunikacioni	forum TELFOR,			
9.	DAUTOVIÓ Circuits and	,S., NOVAK,L., Evolutionary Desig Systems, Issue 11, Volume 5, (20	n of Combinational Ci 06), 1677-1681.	cuits using Boole	an Function Signatures. WS	EAS Trans. on			
10.	Dautović S., Acketa D., Mudrinski V.: Non-isomorphic 4-(48,5,lambda) designs from PSL(2,47) Naziv časopisa: Univ.Beograd.Publ.Elektrotehn.Fak., Univ.Beograd.Publ.Elektrotehn.Fak., 1999, No 10, pp. 41-46								
Su	mmary data fo	r teacher's scientific or art and prof	essional activity:						
Quo	tation total :		10						
Tota	I of SCI(SSCI)	list papers :	2						
Curr	ent projects :		Domestic :	1	International :	2			



Ser State

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Delić D. Vlado				
Academic title:					Associate Professor				
Name of the institution where the teacher works full time and Fa				acher works full time and	Faculty of Tee	Faculty of Technical Sciences - Novi Sad			
starting date: 01					01.09.1989				
Scier	ntific or art f	ield:			Telecommuni	cations and	Signal Processing		
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title el	ection:	2008	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing		
PhD	thesis		1997	Faculty of Technical Sci	ences - Novi Sa	ad	Telecommunications and Signal Processing		
Magi	ster thesis		1993	School of Electrical Engi	neering - Beog	rad	Telecommunications and Signal Processing		
Bach	elor's thesis	S	1989	Faculty of Technical Science	ences - Novi Sa	ad	Telecommunications and Signal Processing		
List c	of courses b	eing he	d by the tea	acher in the accredited stu	idy programme	S			
	ID	Course	e name			Study pro	gramme name, study type		
1.	EK411	Digital	Filters			(E10) Powe	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	Z413A	Acoust	tics and Noi	se Protection		(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic		
3.	BM118B	Acoust	tics and Aud	dio Engineering in Medicir	ne	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	EK312	Acoust	tics and Aud	dio Engineering		(E10) Powe	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	EK312L	Acoust	tics and Aud	dio Engineering in Multime	edia	(F10) Eng Studies	ineering Animation, Undergraduate Academic		
6.	EK422	Digital Audio Signal Processing				(E10) Powe	E10) Power, Electronic and Telecommunication ngineering, Undergraduate Academic Studies		
7.	EK451	Audio and Video Technologies				(E10) Powe	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
8.	EK452	Monitoring and Noise Protection				(E10) Powe	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
9.	ETI27	Audio Engineering				(E02)Elect Profession	tronics and Telecommunications, Undergraduate al Studies		
10.	ETI29	Monito	ring and No	pise Protection		(E02)Elect Profession	02) Electronics and Telecommunications, Undergraduate fessional Studies		
11.	ETI35	Digital	Sound Pro	cessing		(E02) Electronics and Telecommunications, Undergraduate Professional Studies			
12.	DE111S	Algorit	hms for Dig	ital Signal Processing		(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
13.	DE212S	Select	ed Chapters	s in Acoustics and Audio E	Engineering	(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
14.	DE512S	Humar	n-Machine S	Speech Communication		(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
15.	S0151	Applica Teleco	ation of Digi	tal Signal Processing in		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
16.	SI037	Teleco	mmunicatio	on Infrastructure of E-Busi	ness	(E00) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Professional Studies		
17.	BMIM2A	Assisti	ve Informat	ion and Communications	Technologies	(BM0) Bio	medical Engineering, Master Academic Studies		
18.	EK422L	Digital	Audio Sign	al Processing		(F20) Eng	ineering Animation, Master Academic Studies		
19.	EK550	Speec	h Technolog	gies		(E10) Powe	er, Electronic and Telecommunication g, Master Academic Studies		
20.	S1596	Acoust	tics and Aud	dio Engineering in Traffic		(S01)Pos Academic	tal Traffic and Telecommunications, Master Studies		
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Doctoral Academic Studies		
21.	DE111	Algorit	hms for Dig	ital Signal Processing		(H00) Mec	chatronics, Doctoral Academic Studies		
						(OM1) Ma Studies	thematics in Engineering, Doctoral Academic		
22.	DE212	Select	ed Chapters	s in Acoustics and Audio E	Engineering	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Doctoral Academic Studies		

SITAS STUD			UNIVERSITY OF NOV	/I SAD		WHY HA				
AN A		FACULTY OF TECHNICAL SC	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
20000		Study F	Con Con							
04	LANTEN	MASTER ACADEMIC STUDIES	Biomedical Engineering	HO						
List o	of courses b	eing held by the teacher in the accred	dited study programme	s						
	ID	Course name		Study programme name, study type						
23.	DE512	Human-Machine Speech Communic	cation	(E10) Power, El Engineering, Do	ectronic and Telecommunic ctoral Academic Studies	ation				
Rep	oresentative	refferences (minimum 5, not more th	an 10)							
1.	 "Discrimination Capability of Prosodic and Spectral Features for Emotional Speech Recognition", V. Delić, M. Bojanić, M. Gnjatović, M. Sečujski, S.T. Jovičić; Electronics and Electrical Engineering, ISSN 1392-1215, Vol. 18, No. 9, November of 2012, pp. 51-54, DOI:10.5755/i01.eee.18.9.2806 									
2.	"Influence of the Number of Principal Components used to the Automatic Speaker Recognition Accuracy", I. Jokić, S. Jokić, Z. Perić, M. Gnjatović, V. Delić; Electronics and Electrical Engineering, ISSN 1392-1215, No. 7(123), September of 2012, pp. 83-86, DOI:10.5755/j01.eee.123.7.2379									
3.	 "Focus Tree: Modeling Attentional Information in Task-Oriented Human-Machine Interaction", M. Gnjatović, M. Janev, V. Delić; Applied Intelligence, Springer-Verlag New York, Inc., ISSN 0924-669X, Volume 37, Issue 3, Page 305-320, (2012) DOI: 10.1007/s10489-011-0329-5 									
4.	"A Novel Jakovljev Number 3	Split-and-Merge Algorithm for Hierarc ć, M. Gnjatović, M. Sečujski, V. Delić , Page 377-389, (2012) DOI: 10.100	chical Clustering of Gau ; Applied Intelligence, 7/s10489-011-0333-9	ussian Mixture Mo Springer-Verlag N	odels", B. Popović, M. Janev N. York, Inc., ISSN 0924-66	v, D. Pekar, N. 9X, Volume 37,				
5.	"Automat Monograt institut, B	ska konverzija tekstualnih informacija ska serija ISSN 1820-3418, Naučnot eograd, 2011, 56 strana	u govor", M. Sečujski, ehničke informacije, IS	V. Delić; - kumul BN 978-86-81123	ativna naučnotehnička infor 3-25-6, Vol. XLVI, No. 4, Vo	macija - jnotehnički				
6.	"Stereo P COST 21 Interfaces Heidelbe	resentation and Binaural Localization 02 International Training School, Dub 3: Active Listening and Synchrony, Le 9, ISBN 978-3-642-12396-2, LNCS 5	in a Memory Game fo plin, Ireland, 23 27.03.2 cture Notes in Artificial 967, ISSN: 0302-9743	r the Visually Imp 009, Revised Sel Intelligence, LNA , April 2010, pp. 3	aired", V. Delić, N. Vujnović lected Papers in Developme Al; A. Esposito et al. (Eds.) , 354-363, DOI: 10.1007/978-	Sedlar; 2nd ent of Multimodal Springer, 3-642-12397-9				
7.	"Efficient Engineer	ECG Modeling using Polynomial Fun ng, ISSN 1392-1215, No. 4(110), Api	ctions", S. Jokić, V. De ril of 2011, pp. 121-124	lić, Z. Perić, S. K	rčo, D. Sakač; Electronics a	nd Electrical				
8.	"Pattern Evaluation Tests of Software-Based Acoustic Measuring Systems", M. Stojiljković, V. Delić; 6th Forum Acusticum 2011, 27. June - 1 July, Aalborg, Denmark, European Acoustic Asociation, pp. 391 396, (Acta Acustica United with Acustica – Addendum, Vol. 97, No. 3, Mav/June 2011, ISBN: 978-84-694-1520-7, ISSN 1610-1928, European Acoustic Asociation									
9.	"Zbirka za	adataka iz digitalnih telekomunikacija	", V. Milošević, V. Delić	, FTN&Stylos, 19	96, p.189 i FTN, 2005, p.28	32				
10.	"Zbirka za	adataka iz digitalne obrade signala", V	/. Delić, M. Sečujski, I.	Radić, FTN, 200	7, str. 176, (ISBN 978-86-78	392-082-0)				
Sur	nmary data	for teacher's scientific or art and prof	essional activity:							
Quot	ation total :		52							
Tota	of SCI(SS	CI) list papers :	14							
Curre	ent projects	•	Domestic :	4	International :	0				



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Dragutinović D. Gordan			
Acad	lemic title:				Associate Professor			
Nam	e of the inst	itution v	where the te	acher works full time and	Faculty of Tee	Faculty of Technical Sciences - Novi Sad		
starti	ng date:				06.04.1980			
Scier	ntific or art f	ield:	Maar	1	Termodynamics and Heat Transfer			
Acad	lemic caries	er	Year		F			
Acad	lemic title el	ection:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Termodynamics and Heat Transfer	
PhD			1987	Faculty of Technical Sci	ences - Novi Sa	ad	Thermal Energetics and Thermotechnics	
Magi	ster thesis		1983	Faculty of Mechanical E	ngineering - Be	eograd	Thermal Energetics and Thermotechnics	
Bach		5	1977	Faculty of Technical Sci	ences - Novi Sa	ad	Inermal Energetics and Thermotechnics	
LIST	of courses b	eing ne	Id by the tea	acher in the accredited sti	idy programme	S		
	ID	Course	e name			Study pro	gramme name, study type	
						(Z01) Safe	ety at Work, Undergraduate Academic Studies	
1.	M203	Funda	mentals of -	Thermodynamics		(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
						(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
						(M20)Mee Undergrad	chanization and Construction Engineering, uate Academic Studies	
						(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
2.	M203L	Fundamentals in Thermodynamics			(M40) Teo Undergrad	chnical Mechanics and Technical Design, uate Academic Studies		
						(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
						(P00)Proo Studies	duction Engineering, Undergraduate Academic	
						(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
3.	M210	Iherm	odynamics			(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
						(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
4.	M215	Funda	mentals of I	Heat Transfer		(M40) Teo Undergrad	chnical Mechanics and Technical Design, uate Academic Studies	
						(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
5.	M3303	Funda	mentals of I	Process Engineering		(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
6.	URZP31	Funda	mentals of	Thermodynamics with Hea	at Transfer	(ZP0) Disa Undergrad	aster Risk Management and Fire Safety, uate Academic Studies	
7.	GS013	Specia	al topics of b	ouilding physics and therm	nodynamics	(G10) Ene Studies	ergy Efficiency in Buildings, Specialised Academic	
8.	BMIM4A	Transp	oort phenom	nena and Living systems		(BM0) Bio	medical Engineering, Master Academic Studies	
9.	M3508	Mass ⁻	Transfer			(M30) Ene Studies	ergy and Process Engineering, Master Academic	
						(M40) Tec Academic	chnical Mechanics and Technical Design, Master Studies	
10.	DM307	Select	ed Chapters	s in Mass Transfer		(M00) Me	chanical Engineering, Doctoral Academic Studies	
11.	DM313	Proces	ss Kinetics			(M00) Me	chanical Engineering, Doctoral Academic Studies	
Rep	oresentative	reffere	nces (minim	num 5, not more than 10)				
1.	Dragutino Computa	ovic, G.I tional M)., Baclic, B echanics P	.S. "Operation of Counter ublications, Southampton	flow Regenera , 1998.	tors", Book '	Vol. 4 in Series "Developments in Heat Transfer",	
2.	Baclic, B. Galerkin	S. and I Method	Dragutinovi and meanir	c, G.D., "Asymmetric-unbang of dimensional Parame	alanced Counte ters, Int. J. Hea	erflow Thern at Mass Tra	nal Regenerator Problem: Solution by the nsfer, Vol.34, No. 2, 1991, pp. 483-498.	



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

A CONTRACTOR

Study Programme Accreditatio	n
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MASTER ACADEMIC STUDIES

Biomedical Engineering

Rep	Representative refferences (minimum 5, not more than 10)								
3.	Dragutinovic, G.D., Baclic, B.S., "Interpolation and collocation methods for prediction of thermal regenerator performances", Thermal Science, Vol. 12, No. 4, 1996. pp. 307-327.								
4.	Baclic, B.S., Heggs, P.J., and Dragutinovic, G.D., "Prediction of the Effectiveness of Unbalanced - Asymmetric Counterflow Regenerators", Publications of the Faculty of Technical Sciences, Vol. 15, 1984, pp. 1-15, University of Novi Sad.								
5.	Baclic, B.S., Gvozdenac, D.D., and Dragutinovic, G.D., "Easy way to calculate the Amzelius-Schumann J function", Thermal Science, Vol. 1, No. 1, 1997, pp. 109-116.								
6.	Dragutinović, D.G., Dimić, M., Sinteza optimalnih mreša toplotnih razmenjivača, Termotehnika, 1, 1998.								
7.	Bašić, Đ., Petrović, J., Marić, M., Dragutinović, G., i dr., Mogućnost korišćenja energetskog potencijala geotermalnih voda u Vojvodini, Novi Sad, Prometej, 2009								
8.	Martinov, M., Dragutinović, G., i dr., Mogućnos Novi Sad, PSEMR AP Vojvodina, 2008	t kombinovane proizvo	odnje električne i	toplotne energije iz biomase	u AP Vojvodini,				
9.	Nedeljkov, M., Dragutinović, G., Mathematical avgust 1987	Simulation od Deep-B	ed Drying of Grai	ns - A numerical simulation,	CHISA, Prag,				
10.	Nedeljkov, M., Dragutinović, G., Mogućnosti i u proizvoda, 7. simpozijum termičara, Ohrid, ma	islovi racionalizacije pi j 1984.	rocesa konvektivr	nosg sušenja zrnastih poljop	rivrednih				
Sur	nmary data for teacher's scientific or art and profe	essional activity:							
Quot	ation total :	11							
Tota	of SCI(SSCI) list papers :	2							
Curr	ent projects :	Domestic :	2	International :	0				



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Dudić P. Slobodan			
Acad	emic 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:				21.08.1995			
Scier	ntific or art f	ield:			Mechatronics	Mechatronics, Robotics and Automation and Intelligent Systems		
Acad	emic caries	er	Year	Institution			Field	
Acad	emic title el	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems	
Magi	ster thesis		1999	Faculty of Technical Sci	ences - Novi S	ad	Production Systems, Organization and Management	
Bach	elor's thesis	S	1995	Faculty of Technical Science	ences - Novi S	ad	Production Systems, Organization and Management	
List c	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	
1.	H102	Funda	mentals in I	Product Development		(H00) Mec	chatronics, Undergraduate Academic Studies	
2.	H1401	Materi	al Handling	Technologies		(H00) Med	chatronics, Undergraduate Academic Studies	
3.	H1403	Autom	ation of wor	rk processes		(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H1504	Compu	uter Integrat	tion of Production System	s	(H00) Med	chatronics, Undergraduate Academic Studies	
5.	H310	Compo	onents of te	chnological systems		(H00) Mec	chatronics, Undergraduate Academic Studies	
6.	ll1011	Automation of work processes 1				(I10) Indus Studies	strial Engineering, Undergraduate Academic	
7.	ll1013	Material Handling Technologies				(110) Indus Studies	strial Engineering, Undergraduate Academic	
8.	ll1023	Packaging technology				(I10) Indus Studies	strial Engineering, Undergraduate Academic	
9.	ll1038	Autom	ation of wo	rk processes 2		(110) Industrial Engineering, Undergraduate Academic Studies		
10.	ll1042	Autom	ation of Co	ntinual Processes		(110) Indus Studies	strial Engineering, Undergraduate Academic	
11.	IM1114	Energy	y Flows in th	ne Enterprise		(I20) Engin Studies	neering Management, Undergraduate Academic	
12.	H505	Implen	nentation of	automated systems		(H00) Mechatronics, Master Academic Studies		
40	HDOK4	0-1				(112) Indus	strial Engineering, Master Academic Studies	
13.	S	Select	ed chapters	s from automation of work	processes	(112) 11000		
14.	1829	Autom	ation of pac	kaging processes		(110) Indus	strial Engineering, Master Academic Studies	
15.	1830	Energy	y efficiency	of compressed air system	S	(110) Indus	strial Engineering, Master Academic Studies	
16.	PLM02	Produc	ct Developn	nent and Management in I	PLM	(I10) Indus (I1U) Indu and Develo	strial Engineering, Master Academic Studies strial Engineering - Product Lifecycle Management opment, Master Academic Studies	
17.	PLM04	Sustai	nable Produ	uction and LCA		(I1U) Indu and Develo	strial Engineering - Product Lifecycle Management opment, Master Academic Studies	
18.	LIM34	Materi	al Handling			(LIM) Logi Academic	stic Engineering and Management, Master Studies	
19.	NIT02	Factor	y Automatic	on		(NIT) Indu Technologi	strial Engineering - Advanced Engineering ies, Master Academic Studies	
20.	NIT05	Advan	ced Techno	blogy for Material Handling]	(NIT) Indu Technolog	strial Engineering - Advanced Engineering ies, Master Academic Studies	
21.	BMIM4C	Fluid fi	iltration and	separation		(BM0) Bio	medical Engineering, Master Academic Studies	
22.	1911	Sustai	nable produ	iction		(110) Indus	strial Engineering, Master Academic Studies	
23.	IIDS27	Select system	ed chapters	of the energy efficiency o	of automated	(112) Indus	strial Engineering, Specialised Academic Studies	
24.	IIDS6	Selected chapters in automation				(112) Indus	strial Engineering, Specialised Academic Studies	

Datum: 18.12.2012

Total of SCI(SSCI) list papers :

Current projects :

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

Study Programme Accreditation

28 JANC 8										
9	LANTER	MASTER ACADEMIC STUDIES	Biomedical Engineering							
List o	of courses b	eing held by the teacher in the accredited study programme	25							
	ID	Course name	Study programme name, study type							
25.	IM2103	New technologies in engineering and management	(110) Industrial Engineering, Master Academic Studies (I20) Engineering Management, Master Academic Studies							
26.	IMDR86	Selected chapters from energy efficiency of compressed air systems	(H00) Mechatronics, Doctoral Academic Studies (I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies							
27.	IMDR80	Selected chapters in automation	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies							
Re	presentative	e refferences (minimum 5, not more than 10)								
1.	Šešlija D. 174, ISBI	., Ignjatović I., Dudić S.: Increasing the Energy Efficiency in N 978-953-51-0800-9	Compressed Air Systems, Rijeka, InTech, 2012, str. 151-							
2.	2. Dudić S., Ignjatović I., Šešlija D., Blagojević V., Miodrag S.: Leakage quantification of compressed air using ultrasound and infrared thermography, MEASUREMENT, 2012, Vol. 45, No 7, pp. 1689-1694, ISSN 0263-2241									
3.	Ignjatović I., Šešlija D., Tarjan L., Dudić S.: Wireless sensor system for monitoring of compressed air filters, Journal of Scientific and Industrial Research (JSIR), 2012, Vol. 71, No 5, pp. 334-340, ISSN 0022-4456									
4.	Jocanovi and Moni 281-288,	ć M., Šević D., Karanović V., Beker I., Dudić S.: Increased itoring of System Operating Parameters, Strojniški vestnik - ISSN 0039-2480	Efficiency of Hydraulic Systems Through Reliability Theory Journal of Mechanical Engineering, 2012, Vol. 58, No 4, pp.							
5.	Dudić S., thermovis	Ignjatović I., Šešlija D., Blagojević V., Stojiljković M.: Leaka sion, Thermal Science, 2012, Vol. 16, No 2, pp. 621-631, IS	age quantification of compressed air on pipes using SN 0354-9836							
6.	Šešlija D. Business	., Ignjatović I., Dudić S., Lagod B.: Potential energy savings Management, 2011, Vol. 5, No 14, pp. 5637-5645, ISSN 19	in compressed air systems in Serbia, African Journal of 993-8233							
7.	Blagojevi digital slic	ć V., Šešlija D., Stojiljković M., Dudić S.: Efficient control of ding mode, Sadhana - Academy Proceedings in Engineering	servo pneumatic actuator system utilizing by-pass valve and g Science, 2012, ISSN 0256-2499							
8.	Šešlija D and Engii Serbia, 1	., Ignjatović I., Dudić S.: Compressed air system structure a neering of Serbia, Soko Banja: University of Nis, Faculty of 8-21 Oktobar, 2011, pp. 649-658, ISBN 978-86-6055-018-9	and energy efficiency, 15. Symposium on Thermal Science Mechanical Engineering and Society of Thermal Engineers of							
9.	Šešlija D., Dudić S., Ignjatović I.: Cost effectiveness t of pressure regulation on return stroke of pneumatic actuators, 11. International Scientific Conference "Flexible Technologies" - MMA, Novi Sad: Fakultet tehničkih nauka, 20-21 Septembar, 2012									
10.	Dudić S., Ignjatović I., Šešlija D.: Usage of non-destructive methods in compressed air system, 15. International Scientific Conference on Industrial Systems - IS, Novi Sad: Faculty of Technical Sciences, 14-16 Septembar, 2011, pp. 101-104, ISBN 978- 86-7892-341-8									
Sur	mmary data	for teacher's scientific or art and professional activity:								
Quot	tation total ·	0								

6

Domestic :

0

International :

0

Strana 58



HAS STUDIORUM



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

Study Programme Accreditation



Biomedical Engineering

Nam	e and last n	ame:			Erdeljan M. Aleksandar				
Acad	emic title:				Associate Professor				
Nam	e of the inst	itution w	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad		
Starti		I			24.07.1989				
Scier	ntific or art f	ield:			Automatic Co	Automatic Control and System Engineering			
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title el	ection:	2011				Automatic Control and System Engineering		
PhD	thesis		2000	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering		
Magi	ster thesis		1993	School of Electrical Engi	ineering - Beog	Irad	Automatic Control and System Engineering		
Bach	elor's thesis	S	1989	Faculty of Technical Science	ences - Novi Sa	ad	Automatic Control and System Engineering		
List c	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		
1.	E126	System	n Control, N	Iodeling and Simulation		(E10) Pow Engineerin	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 Modeling and Simulation				(M40) Teo Undergrad	chnical Mechanics and Technical Design, uate Academic Studies		
۷.						(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
						(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
						(SEL) Sofi Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
3.	GI303A	Distrib	uted Syster	ns in Geomatics		(GI0) Geo Studies	(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
4.	H213	System	n Modelling	and Simulation 1		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies			
						(H00) Mechatronics, Undergraduate Academic Studies			
5.	BMI124	System	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.	LZUIZ	Contwo		SI COADA Systems		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
7.	ESI001	Softwa	are Tools in	Power Engineering		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
8	FSI010	Basics	of control i	n power systems		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
0.	Loio io	Baciloo				(E10) Pow Engineerin	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			(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
11	SFALING	Softwa	are design o	f SCADA systems		(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
	0LA009	GOILWO	a c ucoigií u	a oondin ayatema		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies		
12.	SEI002	Archite	ecture of Dis	stributed Systems in Powe	er Systems	(ES0) Pov Academic	ES0) Power Software Engineering, Undergraduate cademic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering



			,					
	ID	Course name		Study programr	ne name, study type			
				(E20) Computing Academic Studie	g and Control Engineering, N s	Master		
13.	AU502	Distributed Control Systems		(MR0) Measurer Academic Studie	ment and Control Engineerir s	ng, Master		
				(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
14.	H301	System Modeling and Symulation		(H00) Mechatronics, Master Academic Studies				
15.	S054	Computer Modelling and Simulation		(S01) Postal Tra Academic Studie	ffic and Telecommunication	s, Master		
16.	BMIM3D	Development of integrated biomedic	al systems	(BM0) Biomedical Engineering, Master Academic Studies				
17.	E2532	Automatic Control Systems Project N	Management	(E20) Computing and Control Engineering, Master Academic Studies				
18.	E2533	Discrete event simulation		(E20) Computing Academic Studie	g and Control Engineering, N s	Vlaster		
19	F2535	Software Algorithms in Supervisory (Control and Data	(E20) Computing Academic Studie	g and Control Engineering, N s	Master		
10.	L2000	Acquisition Systems		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
20.	ESI030	Distributed Software Architectures fo Grids	or Smart Energy	(ES0) Power So Studies	ftware Engineering, Master	Academic		
21.	SEAM06	Integration of Distributed Control Sys	stems	(SE0) Software Master Academic	vare Engineering and Information Technolog demic Studies			
22.	DAU006	Selected Chapters in Modeling and S Dynamic Systems	Simulation of	(E20) Computing Academic Studie	E20) Computing and Control Engineering, Doctoral cademic Studies			
23.	DAU018	Selected Chapters in Distributed Cor	ntrol Systems	(E20) Computing Academic Studie	E20) Computing and Control Engineering, Doctoral cademic Studies			
24.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at V	Nork, Doctoral Academic St	udies		
Rep	oresentative	e refferences (minimum 5, not more the	an 10)					
1.	Lendak I. Math. Ap	, Erdeljan A., Popović D.: Algorithm fo pl. 61, No. 3, 715-721 (2011). ISSN 08	or cataloguing topolog 398-1221	ies in the Commo	n Information Model (CIM), (Computers		
2.	Vukmirov hierarchio 1875-688	rić S., Erdeljan A., Čapko D., Lendak I cal neural network, International Journ 33	., Nedić N.: Optimizat al of Computational In	ion of workflow so telligence System	heduling in Utility Managem is, 2011, Vol. 4, No 4, pp. 67	ent System with 72-679, ISSN		
3.	Čapko D. Systems,	., Erdeljan A., Švenda G., Popović M.: Electronics and electrical engineering	Dynamic Repartitioni , 2012, No 4(120), pp	ng of Large Data . 83-88, ISSN 139	Model in Distribution Manag 92-1215	ement		
4.	llić S., Vu Science,	ıkmirović S., Erdeljan A., Kulić F.: Hyt 2012, Vol. 16, No S, pp. 215-224, ISS	orid Artificial Neural Ne N 0354-9836	etwork System for	Short-Term Load Forecastin	ng, Thermal		
5.	Vukmirov electrical	rić S., Erdeljan A., Čapko D., Lendak I engineering, 2011, Vol. 107, No 1, pp	.: Extension of the Co . 59-64, ISSN 1392-12	mmon Information 215	n Model with Virtual Meter, E	Electronics and		
6.	Čapko D. Journal o	., Erdeljan A., Popović M., Švenda G.: f Advances in Electrical and Compute	An Optimal Initial Part r Engineering, 2011, \	rtitioning of Large /ol. 11, No 4, pp. 4	Datasets in Utility Managem 41-46, ISSN 1582-7445	nent Systems,		
7.	Čapko D. DISTRIB ^I 124X	., Erdeljan A., Vukmirović S., Lendak I UTION MANAGEMENT SYSTEMS, Ir	.: A HYBRID GENET	C ALGORITHM F and control, 2011	OR PARTITIONING OF DA , Vol. 40, No 4, pp. 316-322	TA MODEL IN , ISSN 1392-		
8.	Vukmirov Workflow	rić S., Nedić N., Erdeljan A., Lendak I., Scheduling, Information technology a	, Čapko D.: A Genetic ind control, 2010, Vol.	Algorithm Approa 39, No 4, pp. 310	ach for Utility Management S -316, ISSN 1392-124X	System		
9.	Vukmirov and Indus	rić S., Erdeljan A., Lendak I., Čapko D strial Research (JSIR), 2010, Vol. 201	.: A novel software arc 0, No 12, pp. 937-941	hitecture for Sma , ISSN 0022-4456	rt Metering systems, Journa	l of Scientific		
10.	Čapko D. Verlag, 2	., Erdeljan A., Popović M., Švenda G.: 010, str. 555-558, ISBN 978-3-642-15	An Optimal Relations 575-8	ship-Based Partitio	oning of Large Datasets, LN	CS, Springer		
Sun	nmary data	for teacher's scientific or art and profe	essional activity:					
Quot	ation total :		1					
Total	of SCI(SSC	CI) list papers :	9 Domostic :	2	International	0		
Curre	ent projects		Domestic :	3	international :	U		



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

					Crobovos M. Nopod			
Name and last name:					Grahovac M. Nenad			
Academic title:					Assistant Professor			
Name of the institution where the teacher works full time and starting date:					Faculty of Technical Sciences - Novi Sad			
Scientific or ort field:					29.12.2004 Mashania			
Scier			Veer	Institution	Mechanics		Field	
Acad	emic carlee	er	Year					
Acad		lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Mechanics	
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi S	ad	Mechanics	
Magi	ister thesis		2005	Faculty of Technical Sci	ences - Novi S	ad	Continuum Mechanics	
Bach	nelor's thesi	S	2002	Faculty of Technical Sci	ences - Novi S	ad	Deformable Body Mechanics	
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	
						(A00) Arcl	hitecture, Undergraduate Academic Studies	
1.	A207	Mecha	inics			(F10) Eng Studies	ineering Animation, Undergraduate Academic	
	E 404					(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	E104	Mecha	INICS			(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
3.	GG07	Mecha	nics 1			(G00) Civi	il Engineering, Undergraduate Academic Studies	
						(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H112	Mechanics 1 – Fundamentals				(S00) Traffic and Transport Engineering. Undergraduate		
					Academic Studies			
5.	H201	Mecha	nics 2 - Ge	neral		(H00) Mea	chatronics, Undergraduate Academic Studies	
6.	H303	Mecha	tronics 3 –	Further Chapters		(H00) Mea	chatronics, Undergraduate Academic Studies	
		Strength of Materials				(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies		
-	MOOA					(M30) Energy and Process Engineering, Undergraduate Academic Studies		
7.	101204					(M40) Teo Undergrad	chnical Mechanics and Technical Design, uate Academic Studies	
						(P00) Production Engineering, Undergraduate Academic Studies		
8.	M4401	Contin	uum mecha	anics		(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
						(BM0) Biomedical Engineering, Undergraduate Academic Studies		
9.	BMI127	Biome	chanics			(E10) Pow	er, Electronic and Telecommunication	
						(110) Indu	strial Engineering Undergraduate Academic	
10.	II1004	Mecha	nics and In	dustrial Engineering		Studies		
11.	M44041	Dynan	nics of non-	smooth mechanical syste	ms	(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
12.	M44061	Optimi	zation of m	echanical systems		(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
13.	BMIM4A	Transport phenomena and Living systems				(BM0) Bio	medical Engineering, Master Academic Studies	
14.	M45991	Biome	chanics of	cardiovascular system		(M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies	
15.	SZD051	Applic enviro	ations of op	timal control theory in livir	ng	(Z00) Env Studies	ironmental Engineering, Specialised Academic	
16.	DM801	Biome	dical mecha	anics		(M40) Tec	chnical Mechanics, Doctoral Academic Studies	
						(H00) Med	chatronics, Doctoral Academic Studies	
	DTMAG	Th	af lace at			(M00) Me	chanical Engineering, Doctoral Academic Studies	
17.	D1M02	ineory	y or impact			(M40) Teo	(M40) Technical Mechanics, Doctoral Academic Studies	
						(S00) Traffic Engineering, Doctoral Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

International :

0

List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
18.	DTM03	Biomechanical models and analysis	of impact	(M40) Technical Mechanics, Doctoral Academic Studies					
19.	ZRD16A	Selected chapters in mechanics and	d elasticity theory	(Z01) Safety at Work, Doctoral Academic Studies					
Rep	oresentative	e refferences (minimum 5, not more th	nan 10)						
1.	Grahova CHAOS,	c N., Žigić M., Spasić D.: On impact s 2012, Vol. 22, No 4, pp. 1-10, ISSN 0	scripts with both fractio)218-1274	nal and dry friction type of dissipation, INT J BIFURCAT					
2.	Grahova Apllicatio	c N., Žigić M.: Modelling of the hamst ns, 2010, Vol. 59, No 5, pp. 1695-170	tring muscle group by 0 00, ISSN 0898-1221.	use of fractional derivatives, Computers and Mathematics with					
3.	Glavarda Journal c	nov V., Maretić R., Grahovac N.: Bud f Mechanics - A: Solids, 2009, Vol. 28	ckling of a twisted and 3, pp. 131-140, ISSN 0	compressed rod supported by Cardan joints ,European 997-7538					
4.	N. M. Gra of Serbia	ahovac, M. M. Zigić, and D. T. Spasić n Society of Mechanics, Beograd: Se	: On multiple impacts v rbian Society of Mecha	vith fractional type of dissipation, 1st International Congress anics, 10-13 April, 2007, str. 173- 180					
5.	Grahova Differenti	c N., Žigić M: Fractional derivative vis ation and its Applications, Ankara, Tu	coelastic model of the rkey: 05-07 november	hamstring muscle group, 3rd IFAC Workshop on Fractional , 2008					
6.	Žigić M., Internatic UDK: 53	Grahovac N.: Dynamical behavior of onal Congress of Serbian Society of M 1/534(082)	a polymer gel during i lechanics, Vlasinsko je	mpact. Fractional derivative viscoelastic model, 3. ezero, 5-8 Jul, 2011, pp. 871-878, ISBN 978-86-909973-3-6,					
7.	Grahova Fractiona	c N., Žigić M., Spasić D.: On impact s al Differentiation and Its Applications, I	scripts with both fractio Badajoz, 18-20 Oktoba	nal and dry friction type of dissipation, 4. IFAC Workshop on ar, 2010					
8.	Grahovac N.: Generalized Zener model in the analysis of free vibration of a viscoelastic oscillator, 2. International Congress of Serbian Society of Mechanics, Palić: Serbian Society of Mechanics, 1-5 Jun, 2009, pp. 145-153, ISBN 978-86-7892-173-5, UDK: 531/534(082)								
9.	Žigić M., Grahovac N., Spasić D.: A simplified earthquake dynamics of a column like structure with fractional type of dissipation , 1. International Congress of Serbian Society of Mechanics, Kopaonik: Serbian Society of Mechanics, 10-13 April, 2007, pp. 165- 172, ISBN 978-86-909973-0-5, UDK: 531/534(082)								
10.	 Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov's Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3 								
Sur	Summary data for teacher's scientific or art and professional activity:								
Quot	ation total :		5						
Tota	Total of SCI(SSCI) list papers : 3								

Domestic :

1

Current projects :



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

State State

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name: Jorg					Jorgovanović Đ. Nikola			
Academic title: As					Associate Professor			
Name of the institution where the teacher works full time and Faculty						/ of Technical Sciences - Novi Sad		
starting date: 15.11.19								
Scientific or art field: Automatic C							ystem Engineering	
Acad	lemic cariee	er	Year	Institution			Field	
Acad	lemic title e	lection:	2009	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
PhD	thesis		2003	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
Magi	ster thesis		1996	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
Bach	elor's thesis	S	1992	Faculty of Technical Sci	ences - Novi Sa	ad	Electronics	
List o	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.	AU42	Techn	ical Equipm	ent for Control Systems		(MR0) Me Undergrad	easurement and Control Engineering, luate Academic Studies	
						(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
2.	AU43	Funda	mentals of	Biomedical Engineering		(E20) Con	nputing and Control Engineering, Undergraduate Studies	
						(E20) Con	nputing and Control Engineering, Undergraduate Studies	
3.	AU47	DSP A	pplications	in Control Systems		(MR0) Measurement and Control Engineering,		
4.	AU49	Methods of Medical Image Forming and Analysis				(E20) Computing and Control Engineering, Undergraduate Academic Studies		
5.	AUN43	Biomedical Engineering Technologies				(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
6.	G1006	Satellite Navigation and Navigation Service				(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
7.	GI206	Syster	ns and Sigr	als in Geomatics		(GI0)Geo Studies	desy and Geomatics, Undergraduate Academic	
8.	Z411	Funda	mentals of	nstrumentation and Cont	rol	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
9.	BM119A	The ap	plication of ns in medici	geoinformation technolog	gies and	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
10.	BMI112	Biome	dical engine	eering in sport physiology		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
11.	BMI114	Neura	Prosthesis			(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
12.	BMI120	Equipr disable	ment and sy ed	stems for helping the elde	erly, ill and	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
13.	BMI122	Neuro	rehabilitatio	n		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
14.	BMI124	Syster	n Modeling	and Simulation		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
15.	E2314	Microp	rocessor B	ased Control Devices		(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
16	SEALIOS		nnlications	in Control Systems		(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
10.	02,000		phoations	an control cystems		(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
17	SEVINO	Mieror		ased Control Devices		(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
17.	327000		DUCESSUI D			(SEL) Sof Loznica, U	tware Engineering and Information Technologies - Indergraduate Academic Studies	
18.	AU504	Mover	nent Contro			(E20) Con Academic	nputing and Control Engineering, Master Studies	



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

Study Programme Accreditation



Biomedical Engineering

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

LIST C	List of courses being neid by the teacher in the accredited study programmes								
	ID	Course name		Study program	ne name, study type				
19.	AU505	Neural Prostheses		(E20) Computing and Control Engineering, Master Academic Studies					
20.	AU507	Principles of Biomedical Engineering]	(E20) Computin Academic Studie	g and Control Engineering, Nes	Master			
21.	BMIM3B	Soft Sensors		(BM0) Biomedic	al Engineering, Master Acac	lemic Studies			
22.	BMIM3C	Functional Electrical Therapy		(BM0) Biomedic	al Engineering, Master Acac	lemic Studies			
23.	BMIM5C	Brain Computer Interface		(BM0) Biomedic	al Engineering, Master Acac	lemic Studies			
24.	E2532	Automatic Control Systems Project	Management	(E20) Computin Academic Studie	g and Control Engineering, N es	Master			
25.	SEAM04	Soft Sensors		(SE0) Software Master Academi	Engineering and Information c Studies	Technologies,			
26.	DAU008	Selected Chapters in Signal Process Engineering	sing in Biomedical	(E20) Computin Academic Studie	g and Control Engineering, [es	Doctoral			
27.	DE518	Brain Computer Interface Systems		(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation			
28.	DGI016	Selected Chapters in Systems and S	Signals	(GI0) Geodesy a	and Geomatics, Doctoral Aca	ademic Studies			
20		Selected Chapters in Biomedical Ins	trumentation and	(E20) Computing and Control Engineering, Doctoral Academic Studies					
29.	DAU009	Telemetry		(OM1) Mathematics in Engineering, Doctoral Academic Studies					
Rep	Representative refferences (minimum 5, not more than 10)								
1.	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.	2. Popović-Bijelić A., Bijelić G., Jorgovanović N., Bojanić D., Popović M., Popović D.: Multi-field surface electrode for selective electrical stimulation , Artificial Organs, 2005, Vol. 29, No 6, pp. 448-452, ISSN 0160-564X								
3.	Maleševi electrical	ć N., Popović Maneski L., Ilić V., Jorgo stimulation system for restoration of g	ovanović N., Bijelić V., jrasp, J NEUROENG I	Keller T., Popovie REHABIL, 2012, V	ć D.: A multi-pad electrode t /ol. 9, No 66, ISSN 1743-00	based functional 03			
4.	4. Čongradac V., Jorgovanović N., Stanišić D.: Assessing the energy consumption for heating and cooling in hospitals, Energy and Buildings, 2012, Vol. 48, pp. 146-154, ISSN 0378-7788								
5.	Bojanić D cerebral)., Petrovački-Balj B., Jorgovanović N. palsy, Journal of Neuroscience Metho	, Ilić V.: Quantificatior ds, 2011, No 198, pp.	n of dynamic EMG 325-331, ISSN 01	6 patterns during gait in child 165-0270	ren with			
6.	Krasnik F HealthME	R., Mikov A., Ilić V., Jorgovanović N., E ED, 2011, Vol. 5, No 4, pp. 888-893, I	Demeši Drljan Č.: The SSN 1840-2291	use of Dynamic I	Electromyography in Gait An	alysis,			
7.	Jorgovan Control, 2	ović N., Došen S., Petrović R.: Novel 2005, Vol. 15, No 5, pp. 27-30, UDK: 6	Electronic Stimulator S21.3-52	for Functional Ele	ctrical Therapy, Journal of A	utomatic			
8.	8. Jorgovanović N.: Upravljanje funkcionalnom električnom stimulacijom za neurorehabilitaciju pokreta, Novi Sad, Univerzitet u Novom Sadu, Fakultet tehničkih nauka, 2003								
9.	Jorgovan	ović N.: NEURON - neuronski računa	arski sistem, Novi Sad,	, Univerzitet u Nov	vom Sadu, Fakultet tehničkih	nauka, 1996			
10.	 Govedarica M., Petrovački D., Ristić A., Jovanović D., Popov S., Ristić A., Pajić V., Sladić D., Vrtunski M., Badnjarević I., Alargić I., Jorgovanović N., Tepić Ž., Bojanić D., Stanišić D., Ilić V., Pržulj Đ.: Geografski informacioni sistem za potrebe Ministarstva zaštite životne sredine, 2010 								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		81						
Total	of SCI(SS	CI) list papers :	6						
Curre	ent projects		Domestic :	1	International :	1			



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

State Poor

Study Programme Accreditation

Biomedical Engineering

Name and last name:						Kovačević R. Pavle			
Academic title:						Full Professor			
Name of the institution where the teacher works full time and					ne and	Medical Faculty in Novi Sad - Novi Sad			
starting date:						01.01.2000			
Scier	ntific or art f	ield:		с		Medical Scier	nce		
Acad	lemic cariee	er	Year	Institution				Field	
Acad	lemic title el	ection:	2000	Medical Faculty i	n Novi	Sad - Novi Sad		Medical Science	
PhD	thesis		1998	Medical Faculty i	n Novi	Sad - Novi Sad		Medical Science	
Educ Thes	ation Speci	alist	1993	Medical Faculty in	n Novi	Sad - Novi Sad		Medical Science	
Magi	ster thesis		1991	Medical Faculty i	n Novi	Sad - Novi Sad		Medical Science	
Bach	elor's thesis	3	1984	Medical Faculty in	n Novi	Sad - Novi Sad		Medical Science	
List o	of courses b	eing he	ld by the tea	acher in the accred	lited stu	udy programme	s	•	
	ID	Course	e name				Study pro	ogramme name, study type	
1.	BMIM6	Clinica	I medicine	for engineers			(BM0) Bic	medical Engineering, Master Academic Studies	ies
Rep	oresentative	reffere	nces (minin	num 5, not more th	an 10)				
1.	Kovačevi	ć P., Ve n. doi 10	licki L., Moj) 1016/i avs	ašević R., Kieffer E a 2011 02 049 AN	E.: Thr	omboexclusion	of the com	olete aorta in the treatment of chronic type B 0-5096	
	Golubovi	ć M., Mi	hajlović B.,	Kovačević P., Čen	nerlić-A	đić N., Pavlovi	ć K., Velicki	L., Šušak S.: Postoperativne neletalne	
۷.	komplika	cije nako	on operacije	e na otvorenom sro	u, Vojr	nosanitetski pre	gled, 2012,	Vol. 69, No 1, pp. 27-31, ISSN 0042-8450	
3.	Kovačevi following	ć P., Ve CABG,	licki L., Kor Herz, 2011	nazec N., Vujin B., , Vol. 36, No 2, pp.	Ivanov 144-14	rić V., Golubovi 46, ISSN 0340-	ć M.: Early 9937, UDK	graft thrombosis due to antithrombin III deficien : DOI 10.1007/s00059-011-3430-y	iency
4.	Kovačevi single ce 2011, ISS	ć P., Re nter exp SN 1128	edžek A., Iva erience - in 8-3602	anović-Kovačević S press, European F	S., Velio Review	cki L., Ivanović for Medical an	V., Kieffer E d Pharmaco	E.: Coronary and carotid artery occlusive diseas ological Sciences (Eur Rev Med Pharmacol Sci)	ease: sci),
5.	Kovačevi vulvularn	ć P., Mil oj hirurg	hajlović B., jiji srca, Voj	Velicki L., Redžek nosanitetski pregle	A., Ivai d, 201	nović V., Koma 1, Vol. 68, No 5	zec N.: Mir , pp. 405-4	i-sternotomija - preliminarno iskustvo u 09, ISSN 0042-8450	
6.	 Mihajlović B., Nićin S., Kovačević P., Šušak S., Velicki L., Kovačević D., Fabri M.: Ocena rezultata u koronarnoj hirurgiji primenom modela EuroSCORE, Srpski arhiv za celokupno lekarstvo, 2011, Vol. 139, No 1-2, pp. 25-29, ISSN 0370-8179, UDK: Ocena rezultata u koronarnoj hirurgiji primenom modela EuroSCOR 								
7.	Velicki L. outcome.	, Nićin S , Journa	S., Mihajlovi al of the Bal	ć B., Kovačević P., kan Union of Onco	, Šušak logy (J	S., Fabri M.: (BUON), 2010,	Cardiac my: Vol. 15, No	koma: clinical presentation, surgical treatment an 1, pp. 51-55, ISSN 1107-0625	t and
8.	Kovačevi Card Sur	ć P., Ve g, 2009,	licki L., Rec , Vol. 24, No	džek A.: Surgical tr o 6, pp. 670-672, IS	reatme SSN 08	nt of cornary ar 886-0440	tery-pulmor	nary artery fistula with coronary artery disease, J	e, J
9.	9. Velicki L., Milosavljević A., Majin M., Vujin B., Kovačević P.: Postpartal right ventricular thrombosis, Herz, 2008, Vol. 33, No 7, pp. 532-534. ISSN 0340-9937							7, pp.	
10.	10. Golubović M., Mihajlović B., Kovačević P., Čemerlić-Ađić N., Pavlović K., Velicki L., Šušak S.: Postoperativne neletalne komplikacije posle operacije na otvorenom srcu prihvaćen za štampu, Vojnosanitetski pregled, 2010. ISSN 0042-8450								
Sur	mmary data	for teac	her's scient	tific or art and profe	essiona	al activity:			
Quot	ation total :				0				
Tota	of SCI(SS	CI) list p	apers :		9				
Current projects : Domestic : 0 International : 0									



State and

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Lendak I. Imre			
Academic title:					Assistant Professor			
Name of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad			
starti	ng date:				01.02.2005			
Scier	ntific or art f	ield:			Automatic Co	ntrol and Sy	/stem Engineering	
Acad	lemic caries	er	Year	Institution			Field	
Acad	lemic title e	lection:	2012	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
PhD	thesis		2011	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
Magi	ster thesis		2007	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
Bach	elor's thesis	S	2002	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
List o	of courses b	eing hel	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 (ES0) Pov Academic (M40) Tec	nputing and Control Engineering, Undergraduate Studies ver Software Engineering, Undergraduate Studies chnical Mechanics and Technical Design,	
1.	E232	System	n Modeling	and Simulation		Undergrad (MR0) Me	uate Academic Studies asurement and Control Engineering,	
						Undergrad	uate Academic Studies tware Engineering and Information Technologies.	
						Undergrad	uate Academic Studies	
						Loznica, Undergraduate Academic Studies		
2.	GI303A	Distributed Systems in Geomatics				(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
3.	E2312	Software design for SCADA systems				(E20) Computing and Control Engineering, Undergraduate Academic Studies		
						Loznica, Undergraduate Academic Studies		
4.	ESI003	Electric power software development				(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
5.	ESI011	Softwa	are security	and safety in power engir	neering	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
6.	ESI016	Smart	Grid Progra	amming		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
7.	ESI017	Mobile	computing	in power systems		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
8.	SEAU02	SCAD	A Software			(SE0) Sof Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Master Studies	
9.	AU502	Distributed Control Systems			(MR0) Measurement and Control Engineering, Master Academic Studies			
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
10.	S054	Compu	uter Modelli	ng and Simulation		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies	
11.	BMIM3D	Develo	pment of ir	tegrated biomedical syste	ems	(BM0) Bio	medical Engineering, Master Academic Studies	
12.	E2533	Discre	te event sin	nulation		(E20) Con Academic	nputing and Control Engineering, Master Studies	
						(E20) Con	nputing and Control Engineering, Master	
13.	E2535	Softwa	are Algorithr	ms in Supervisory Control	and Data	Academic	Studies	
	,	Acquisition Systems			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
14.	ESI033	Advan	ced Power	Grid Communication Prote	ocols	(ES0) Pov Studies	ver Software Engineering, Master Academic	

UNIVERSITY (OF NOVI SAD





Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

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

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 Sm	art Grid	(ES0) Power So Studies	ftware Engineering, Master	r Academic			
17.	SEAM03	Software Algorithms in Supervisory (Acquisition Systems	Control and Data	(SE0) Software Master Academic	Engineering and Informatic c Studies	on Technologies,			
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Lendak I. Compute	, Erdeljan A. & Popović D. (2011), "Al rs and mathematics with applications,	gorithm for cataloguing February 2011, vol 6	g topologies in the 1 (3), pp. 715-721.	Common Information Mod DOI 10.1016/j.camwa.201	lel (CIM)", I0.12.021			
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N. (2011), "Optimization of workflow scheduling in Utility Management 2. System with hierarchical neural network", International Journal of Computational Intelligence Systems, 2011, vol 4 (4), pp. 672- 679.								
3.	3. Lendak I., Ivancevic N., Vukmirovic S., Varga E., Nenadic K. & Erdeljan A. (2012), "Client Side Internet Technologies in Critical Infrastructure Systems", International Journal of Computers, Communications & Control (IJCCC), 2012, vol 7 (5), pp. 878-890.								
4.	Vukmirovic S., Erdeljan A., Lendak I. & Capko D. (2012), "Unifying the Common Information Model (CIM)", Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique, 2012, vol 57 (3), pp. 301-310.								
5.	Vukmirov Neural N	ic S., Erdeljan A., Lendak I. & Capko etworks", Journal of Applied Research	D. (2012), "Optimal W and Technology, 201	orkflow Schedulin 2, vol 10 (2), pp. 2	g in Critical Infrastructure S 114-121.	Systems with			
6.	Čapko D. Managen	., Erdeljan A., Vukmirović S. & Lendak nent Systems", Information Technolog	I. (2011), "A Hybrid G Iy and Control, 2011, v	Genetic Algorithm f vol 40 (4), pp. 316	for Partitioning of Data Moc -322.	lel in Distribution			
7.	Vukmirov Electroni	ić S., Erdeljan A., Lendak I. & Čapko cs and electrical engineering, ISSN 13	D. (2011), "Extension 92 – 1215, 2011, vol	of the Common In 1 (111), pp. 59-64	formation Model with Virtu	al Meter",			
8.	Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), "A novel software architecture for smart metering systems", Journal of Scientific & Industrial Research. December 2010. vol 69. pp. 937-941.								
9.	9. Nedić N., Vukmirović S., Erdeljan A., Lendak I. & Čapko D. (2010), "A genetic algorithm approach for utility management system workflow scheduling". Information technology and control, 2010, vol 39 (4), pp. 310-319.								
10.	D. Erdeljan A., Lendak I., Vukmirović S. & Čapko D. (2007), "Otvorena softverska arhitektura za modeliranje, simulaciju i upravljanje distributivnim vodovodnim sistemima", Vodoprivreda, 2007, ISSN 0350-0519, vol 229-230, pp. 291-302.								
Sur	Summary data for teacher's scientific or art and professional activity:								
Quot	ation total :		25						
Total	of SCI(SS	CI) list papers :	9						
Curre	ent proiects	:	Domestic :	1	International :	1			



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Lončar-Turukalo G. Tatjana			
Academic title:					Assistant Professor			
Name of the institution where the teacher works full time and					Faculty of Tee	Faculty of Technical Sciences - Novi Sad		
					01.05.2006			
Scier	ntific or art f		Maar	1	l elecommuni	cations and	Signal Processing	
Acad	iemic caries	er	Year		N : 0			
Acad	lemic title el	lection:	2012	Faculty of Technical Scie	ences - Novi Sa	ad	Telecommunications and Signal Processing	
PhD	thesis		2011	Faculty of Technical Scie	ences - Novi Sa	ad	Telecommunications and Signal Processing	
Magi	ster thesis	-	2007	Faculty of Technical Scie	ences - Novi Sa	ad	Telecommunications and Signal Processing	
Bach	elor's thesis	S	2001	Faculty of Technical Scie	ences - Novi Sa	ad	Telecommunications and Signal Processing	
LIST	of courses b	eing ne	id by the tea	acher in the accredited stu	idy programme	is		
	ID	Course	e name			Study pro	gramme name, study type	
1.	BMI105	Statisti biome	ical basics, dical signals	processing and modelling	of	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
2.	BMI123	Advan	ced biomed	lical signal analysis		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
3.	EK202	Comm	unication n	etworks - introduction		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	EK321	IP tech	nology			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
5.	EK450	Develo Proces	opment Too ssing 2	Is in Telecommunications	and Signal	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
6.	EK458	Telecommunication networks				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
7.	ETI25	Pattern recognition				(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
8.	ETI37	Digital Image Processing				(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
9.	SZP01	Select	ed topics in	Information technologies		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
10.	BMIM2B	Biome	dical statist	ics		(BM0) Bio	medical Engineering, Master Academic Studies	
11.	BMIM2C	Multiva	ariable anal	ysis and complexity of phy	/siological	(BM0) Bio	medical Engineering, Master Academic Studies	
12.	BMIM2D	Information theory in biosystems				(BM0) Bio	medical Engineering, Master Academic Studies	
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)				
1.	Lončar-T Exact Ex	urukalo pressior	T., Japunzi is, IEEE Tra	c-Zigon N., Bajić D.: Tem ansactions of Biomedical I	poral Sequenc Engineering, 20	e Paramete)11, Vol. 58,	rs in Isodistributional Surrogate Data: Model and , No 1, pp. 16-24, ISSN 0018-9294	
2.	 Bošković A., Lončar-Turukalo T., Sarenac O., Japundzic-Zigon N., Bajić D.: Unbiased entropy estimates in stress: a parameter study. COMPUT BIOL MED. 2012. ISSN 0010-4825 							
3.	Dragana Zigon, Ni ISSN 102	Bajic, T na: "Ter 25-3890	atjana Lonc nporal Anal print/ISSN	ar Turukalo, Sonja Stojici ysis of the Spontaneous E 1607-8888 online	c, Olivera Sare Baroreceptor R	nac, Tijana eflex During	Bojic, David Murphy, Julian Paton,; Japundzic Mild Emotional Stress"; Stress 2009;00;1-13;	
4.	 Dragana Bajić, Sonja Stojičić, Olivera Šarenac, Tatjana Lončar-Turukalo, Tijana Bojić, Nina Japundžić-Žigon: Temporal Analysis of Spontaneous Baroreceptor Reflex during Emotional Stress in Freely Moving Rats, 5th Conference of the European Study Group of Cardiovascular Oscillations, ESCGO, April, 2008, str. 012-5- 012-8. 							
5.	 Tatjana Lončar-Turukalo, Dragana Bajić, Nina Japundžić Žigon: Cardiovascular Response to Acute Stress in Freely Moving Rats: Time-Frequency Analysis, 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, august, 2008, pp. 2614-2617. 							
6.	Olivera Š the Spon Conferen	arenac, taneous ice, 14-1	Srdja Drak Barorecep 7 septemb	ulić, Maja Lozić, Tatjana L tor Reflex during Acute an er, 2008, pp. 813- 816.	ončar Turukalo nd Chronic Sha	o, Dragana I ker Stress ir	Bajić, Nina Japundžić Žigon: Temporal Analysis of n Freely Moving Rats, Computers in Cardiology	
7.	Damir Va Cardiova MEDICO	arga, Tal scular T N, 26-30	ijana Lonča ime Series) June, 200	r-Turukalo, Dragana Bajić of Rats, 11th Mediterrane 7.	, Sanja Milutino an Conference	ović, Nina Ja on Medical	apundžić-Žigon: Joint Symbolic Dynamics of and Biological Engineering and Computing	
SITAS STUDE UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation MASTER ACADEMIC STUDIES **Biomedical Engineering** Representative refferences (minimum 5, not more than 10) Tatjana Lončar-Turukalo, Snežana Milosavljević, Olivera Šarenac, Nina Japundžić Žigon, Dragana Bajić: Entropy and Gaussianity - Measures of Deterministic Dynamics of Heart Rate and Blood Pressure Signals of Rats , Acta Polytechnica Hungarica, Journal 8 of Applied Sciences, 2008, Vol. 5, No. 1, pp. 121- 133, ISSN 1785-8860. Dragana Bajić, Tatjana Lončar-Turukalo, Olijandra Šibarević, "On Direct Sequential Analysis of HRV Signals", Archive of 9 Oncology, Vol.13, No.1, January 2005 Olivera Šarenac, Srđa Drakulić, Maja Lozić, Tanja Lončar-Turukalo, Dragana Bajić, Julian FR Paton, David Murphy, Nina 10. Japundž: Time and frequency domain analysis of the cardiovascular response to stress in conscious rats, Acta Cardiologica, 2008, Vol. 63, No. 3. Summary data for teacher's scientific or art and professional activity: 28 Quotation total Total of SCI(SSCI) list papers : 3 Current projects Domestic : 2 International : 0



Study Programme Accreditation C STUDIES Biomedical Engineering



MASTER ACADEMIC STUDIES

Nam	Name and last name:				Mitić M. Igor					
Acad	emic title:					Full Professor				
Nam	e of the inst	itution v	where the te	acher works full tir	ne and	d Medical Faculty in Novi Sad - Novi Sad				
starti	ng date:					01.01.2000				
Scier	ntific or art f	ield:				Medical Scier	nce	,		
Acad	emic cariee	er	Year	Institution				Field	ł	
Acad	emic title el	ection:	2000	Medical Faculty i	n Novi	Sad - Novi Sad		Med	ical Science	
PhD	thesis		2001	Medical Faculty i	n Novi	Sad - Novi Sad		Med	ical Science	
Magi	ster thesis		1993	Medical Faculty i	n Novi	Sad - Novi Sad		Med	ical Science	
Bach	elor's thesis	6	1987	Medical Faculty i	n Novi	Sad - Novi Sad		Med	ical Science	
List c	of courses b	eing hel	d by the tea	acher in the accred	dited stu	udy programme	S			
	ID Course name					Study pro	ogrami	me name, study type		
1.	BMIM6 Clinical medicine for engineers				(BM0) Bio	medic	al Engineering, Master Acad	demic Studies		
Rep	Representative refferences (minimum 5, not more than 10)									
1. Stojanović V., Mitić I., Jokić R., Vučković N., Doronjski A., Vijatov-Đurić G., Milošević B., Đapić M.: Splenic peliosis in the course of IgA nephropathy , Pediatric nephrology, 2007, Vol. 22, No 12, pp. 2137-2140, ISSN 0931-041X				in the course						
2.	Felle D., Gebauer E., Sterio M., Tepavčević P., Čurić S 2. PRIMARY IMMUNODEFICIENCES AND IgG SUBCLA Biologorum, 1990, Vol. 92, pp. 67-68, ISSN 0031-5362				S., Đisalov M., ASS DEFICIEN 2	Vodopivec S ICES Naziv	S., Le časoj	nert P., Šoltes Š., Ilić V., Mit bisa: Period. biologorum , Pe	ić I., Božić D.: eriodicum	
3.	Lenert P. MIXED C ISSN 003	, Felle D RYOGL 31-5362)., Mitić I., T OBULINS I	epavčević P., Čuri Naziv časopisa: Pe	ić S., Beriod. bi	ožić D., Vodopi iologorum , Per	vec S.: IMN iodicum Bio	1UNO logori	CHEMICAL INVESTIGATIO um, 1990, Vol. 92, No suppl.	N ON TYPE III 3, pp. 88-88,
4.	Felle D., DIAGNO No Supp.	Tepavče STIC PF 3, ISSN	ević P., Tep ROCEDURE N 0031-5362	avčević P., Lenert ES AND THE RES 2	P., Čur ULTS N	rić S., Mitić I., E Vaziv časopisa:	ožić D., Sal Period. bio	kač V. Iogori	: MONOCLONAL GAMMAP	ATHIES 1990, Vol. 92,
5.	5. Felle D., Tepavčević P., Lenert P., Vodopivec S., Čurić S., Đisalov M., Mitić I., Božić D., Sakač V.: Monoclonal gammapathies diagnostic procedures and the results , Periodicum Biologorum, 1990, Vol. 92, No Supp. 3, pp. 89-90, ISSN 0031-5362									
6.	 Felle D., Gebauer E., Sterio M., Tepavčević P., Čurić S., Đisalov M., Vodopivec S., Lenert P., Šoltes Š., Ilić V., Mitić I., Božić D.: Primary immunodeficiences and IgG subclass deficiences, Periodicum Biologorum, 1990, Vol. 92, No 1, pp. 67-68, ISSN 0031- 5362 									
7.	7. Lenert P., Felle D., Mitić I., Tepavčević P., Čurić S., Bo. cryoglobulins, Periodicum Biologorum, 1990, Vol. 92, N				ožić D., Vodopivec S.: Immunochemical investigation on type III mixed No Suppl 3, pp. 88-89, ISSN 0031-5362					
Sun	nmary data	for teac	her's scient	ific or art and profe	essiona	I activity:				
Quot	ation total :									
Total	of SCI(SSC	CI) list p	apers :							
Curre	rrent projects : Dom			Dome	estic :			International :		



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:			Nađ F. Laslo					
Academic title:			Associate Professor					
Name of the institution where the teacher works full time and			Faculty of Technical Sciences - Novi Sad					
starting date:			01.05.1977					
Scier	ntific or art f	ield:	Veer	Institution	Electronics		Field	
Acad	emic cariee	er La ationa	rear	Institution	amaga Maud C			
Acac	theorie	lection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Electronics	
Magi	eter thesis		1992	Faculty of Electronic En	nineering - Niš	au	Electronics	
Bach	elor's thesis		1903	Faculty of Technical Sci	ences - Novi S	ad	Electrical and Computer Engineering	
List	of courses b	eina he	d by the te	acher in the accredited stu	Idv programme	25	Electroni and Compater Engineering	
		- J -	· · , · · · ·					
	ID	Course	e name			Study pro	ogramme name, study type	
1	EM304	Impule	e and Digit	al Electronic Circuits		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
1.	LIVIOU	Impuls				(E10) Pow Engineerin	er, Electronic and Telecommunication Ig, Undergraduate Academic Studies	
2.	EM436	Mecha	tronics			(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
3.	EM440	Computer-Aided Electronic Circuit Design				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	H305	Analougue Electronics				(H00) Med	chatronics, Undergraduate Academic Studies	
5.	H309	Impuls Electronics				(H00) Med	chatronics, Undergraduate Academic Studies	
						(H00) Med	chatronics, Undergraduate Academic Studies	
6.	H311	Application of Sensors and Actuators				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
7.	BMI110	Sensors and actuators in medicine				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
8.	BMI99	Electronics				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
9.	E138A	Digital Electronics				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
10.	EM301A	Analog Microelectronic Circuits				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
11.	EM436A	Mechatronics				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
12.	DE400S	Complex Digital Systems and High Freque			ncy Circuits	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
13.	DE501S	Selected Chapters in Pulse and Analogue I			Electronics	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
14.	EM530	Selected Chapters in Impulse Electronics				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
15.	SI032	Selected Chapters in Mechatronics				(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
16.	BMIM1B	EMI and EMC in medicine equipment				(BM0) Bio	medical Engineering, Master Academic Studies	
17.	EM406A	High-F	requency [Digital Systems and Circui	ts	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
18.	DE400	Compl	ex Digital S	systems and High Frequer	ncy Circuits	(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies	
19.	DE501	Select	ed Chapter	s in Pulse and Analogue E	Electronics	(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies	
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)				
1.	Radosavl Fabricate	ljević G. d in the	, Živanov L Standard L	j., Smetana W., Marić A., TCC Technology, IEEE S	Unger M., Nađ ensor Journal,	L.: A Wirel 2009, Vol. 9	ess Embedded Resonant Pressure Sensor 9, No 12, pp. 1956-1962, ISSN 1530-437X	
2.	L. Juhas, Mechatro	A. Vuja onics, Vo	nić, N. Ada ol. 11 (2001	mović, L. Nagy, B. Borova), pp.869-897.	ac, "A Platform	for Micro-Po	ositioning Based on Piezo-Legs", The Journal of	

4	TAS STU		UNIVERSITY OF NOVI SAD						
ANI A	NULL OILOR	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
2.2		Study F	Con						
·0/	LANTER	MASTER ACADEMIC STUDIES	Biomedical Engineering	A HOS					
Rep	presentative r	efferences (minimum 5, not more th	an 10)						
3.	Damnjanov Inductive S	rić M., Živanov Lj., Nađ L., Đurić S., iensor , IEEE Transactions on Magr	Biberdžić B.: A Novel Approach to Extending the Linearity Rang netics, 2008, Vol. 44, No 11, pp. 4123-4126, ISSN 0018-9464	e of Displacement					
4.	Nađ L., Rao Generator,	dić J., Đugova A., Videnović-Mišić N Informacije MIDEM - Journal of mic	M.: Ultra Low-Power Low-Complexity Tunable 3-10 GHz IR-UV croelectronics, electronic components and materials, 2012, Vol. 3	/B Pulse , ISSN 0352-9045					
5.	Đurić S., Na Internationa	ađ L., Damnjanović M., Đurić N., Živ al, 2011, Vol. 28, No 1, pp. 41-49, IS	vanov Lj.: A novel application of planar-type meander sensors, N SSN 1356-5362	licroelectronics					
6.	Radić J., Đ Generator i 357-360, IS	ugova A., Nađ L., Videnović-Mišić N in 0.18µm CMOS technology, 28. In SBN 978-1-4673-0235-7, UDK: 10.1	M.: Feedback Influence on Performance of Ring Oscillator for IR- nternational Conference on Microelectronics – MIEL, Niš: IEEE, 1 1109/MIEL.2012.6222873	UWB Pulse 3-16 Maj, 2012, pp.					
7.	Nađ L., Babković K., Krklješ D., Borovac B.: Elastic Foot Contact Force Sensor System — Pendulum Application Example, 14. International Power Electronics and Motion Control Conference EPE-PEMC, Ohrid, 6-9 Septembar, 2010, pp. 38-38, ISBN 978-1- 4244-7856-9								
8.	Babković K., Nađ L., Krklješ D.: Optical Sensor for Vibration Monitoring with Automatic Operating Point Adjustment, 28. International Conference on Microelectronics – MIEL, Niš, 13-16 Maj, 2012, pp. 189-192, ISBN 978-1-4673-0235-7								
9.	Radić J., Đugova A., Nađ L., Videnović-Mišić M.: Body Bias Influence on Ring Oscillator Performance for IR-UWB Pulse Generator in 0.18µm CMOS technology, 47. International Scientific Conference on Information, Communication and Energy Systems and Tehnologies - ICEST, Veliko Trnovo, 28-30 Jun, 2012, pp. 82-85								
10.	Krklješ D., Babković K., Nađ L.: Specific Conductance Characteristic of Force Sensing Resistor (FSR) with Custom Made Single- gap Conductive Contacts, 2. ICMAST-International Conference on Materials and Applications for Sensors and Transducers, Budapest, 24-28 Maj, 2012								
Sur	mmary data fo	or teacher's scientific or art and profe	essional activity:						
Quot	tation total :		6						
Total of SCI(SSCI) list papers :) list papers :	5						

Domestic :

3

International :

1

Current projects :



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Pejić V. Dragan			
Acad	lemic title:				Assistant Pro	fessor		
Name of the institution where the teacher works full time and				acher works full time and	Faculty of Technical Sciences - Novi Sad			
starting date:			01.09.1995					
Scier	ntific or art f	field:			Electrical Measurements			
Acad	lemic caries	er	Year	Institution			Field	
Acad	lemic title el	lection:	2011				Electrical Measurements	
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
Magi	ster thesis		1997	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
Bach	elor's thesis	S	1993	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
List o	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	
1.	E130	Electri	cal Measure	ements		(S00) Traf Academic (S01) Pos Undergrad	fic and Transport Engineering, Undergraduate Studies tal Traffic and Telecommunications, uate Academic Studies	
2.	E130A	Electri	cal Measure	ements		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3.	E140	Measuring in Electronics				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	E142	42 Measuring Instruments				(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
						Engineerin	g, Undergraduate Academic Studies	
5.	EIEKI	Electronic Components in Instrumentation				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
6.	EIEMER	Electronic measurements				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
7.	EIPMS1	Design and development of industrial devic			es and	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
		measu	irement sys	tems i		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
8.	EIPMS2	Desigr	and develo	opment of industrial devic	es and	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
		measu	irement sys			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	EIPR1	Labora	atory practic	cum		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
10.	MR0UL R	Introdu	uction to lab	oratory practice		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
11.	BMIM5B	Desigr system	n and develons	opment of medical device	s and	(BM0) Bio	(BM0) Biomedical Engineering, Master Academic Studies	
12.	EIMIO	Measu	irement sys	tems in industrial environ	ment	(MR0) Measurement and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication		
						Engineerin	g, Master Academic Studies	
Rep	Representative refferences (minimum 5, not more than 10)							
1.	Pejić D., Measure	Vujičić \ ment, 20	/.: Accurac 000, Vol. 49	y Limit of High-Precision , No 3, pp. 617-620	Stochastic Wat	t-Hour Mete	r, IEEE Transaction on Instrumentation and	
2.	Vujičić V. on Instru	., Milova mentatio	nčev S., Pe on and Mea	ešaljević M., Pejić D., Župi surement, 1999, Vol. 48, I	unski I.: Low F No 2, pp. 467-4	requency St 70	tochastic True RMS Instrument, IEEE Transaction	
3.	Antić B., Control, 2	Pejić D. 2006, Vo	: A Measur ol. 16, No 1	ing System for Supervisio , pp. 9-12, UDK: 621.3-52	on of the Rail W	elding Mach	nine PRSM-4 No. 083, Journal of Automatic	
4.	Pejić D.:	Stohas	tičko meren	je električne snage i ener	gije, Novi Sad,	FTN, 2010		
5.	D. Pejić, merenje I ISBN 978	P. Sovilj biomedi 3-86-805	, M. Urekar cinskog p30 509-67-9	, V. Vujičić, Lj. Župunski, 00 potencijala, Zbornik rac	Uticaj zajedničl lova 56. konfer	kog napona encije za E⊺	na IRAN, Zlatibor, 11. – 14.6. 2012, pp. ML1.9-1-4,	



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Re	Representative refferences (minimum 5, not more than 10)				
6.	Pejić D., Urekar M., Vujičić V., Avramov-Zamurović S.: Comparator offset error supression in stochastic converters used in a Watt-Hour Meter, 1. Conference on Precision Electromagnetic Measurements - CPEM 2010, Daejeon, 13-18 Jun, 2010, pp. 235-236, ISBN 978-1-4244-6794-5				
7.	Pejić D., Urekar M., Crnojakić M., Župunski I., Vujičić V.: ETALONSKO BROJILO ELEKTRIČNE ENERGIJE, 4. Kongres metrologa, Zlatibor: Kongres metrologa, 24-26 Septembar, 2007				
8.	. Antić B., Pejić D.: Merni sistem za nadzor mašine za zavarivanje šina PRSM-4 br.083, 50. ETRAN, Beograd, 6-9 Jun, 2006				
9.	Pejić D.: Višekanalno merenje faktora izobličenja, Novi Sad, 1997				
10.	Mitrović Z., Pejić D., Župunski I., Urekar M., Milovančev S., Vujičić V.: Metoda merenja aktivne snage u složenoperiodičnom režimu, 2011				
Su	Summary data for teacher's scientific or art and professional activity:				
Quot	Quotation total :				
Tota	I of SCI(SSCI) list papers :				
Curr	ent projects :	Domestic :		International :	



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Pjevalica U. Nebojša			
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			
starting date:			01.08.1997					
Scientific or art field:			Electrical Measurements					
Acad	lemic cariee	er	Year	Institution			Field	
Acad	lemic title el	lection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
PhD	thesis		2007	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
Magi	ster thesis		2001	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
Bach	elor's thesis	S	1995	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements	
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	gramme name, study type	
1.	E130	Electri	cal Measur	ements		(S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies	
						(S01) Pos Undergrad	tal Traffic and Telecommunications, uate Academic Studies	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
2	F227A	Logic I	Design of C	omputer Systems 1		(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies	
		209.01	200.g. 0. 0			(MR0) Me Undergrad	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
						(E20) Computing and Control Engineering, Undergraduate Academic Studies		
3.	E244	E244 Selected Chapters in Physical Architecture I		Design	ign (MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	BMI115	Biomedical Engineering in Cognitive Neurosci			science	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
5.	El410	Biophy	/sics			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
6.	EIMET	Metrology				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
7.	BMIM5A	Virtual	measurem	ent instrumentation in bio	medicine	(BM0) Biomedical Engineering, Master Academic Studies		
8.	BMIM5B	Desigr system	າ and devel າຣ	opment of medical device	s and	(BM0) Bio	medical Engineering, Master Academic Studies	
9.	BMIM5D	Magne	etic-Resona	nce Devices in Biomedici	ne	(BM0) Biomedical Engineering, Master Academic Studies		
10.	BMIM5E	Distrib	uted meası dicine	irement and acquisition sy	stems in	(BM0) Biomedical Engineering, Master Academic Studies		
Rep	Representative refferences (minimum 5, not more than 10)							
1.	A.Kozare Telecomr	v, N. Pje nunicati	evalica, V. I ion Network	Macar, D. Roncevic, O. Va Evolution - General Mod	arga-Silberholc el", Telsiks"97,	, "Some Issi Vol2, pp.42	ues in Multimedia/B-ISDN Based 5-428, Nis, Yugoslavia 1997.	
2.	A.Kozare ISDN Env	v, M. Ni vironme	kolic, D. Mi nt", Telsiks	lidrag, N. Pjevalica, "An In '97, Vol2, pp.421-424, Nis	ntegrated Appro s, Yugoslavia 1	bach to Publ 997.	ic Telecommunication Network in Multimedia/B-	
3.	D. Zrilic, IEEE Inst	N. Pjeva trumenta	alica, "Frequation and M	uency Deviation Measurer easurement Technology (ment Based on Conference, pp	Two - Arm .756-760, B	Delta - Sigma Modulated Bridge", IMTC2001 udapest, Hungary 2001.	
4.	D. Zrilic, Automatio	N. Pjeva on Cong	alica, "Stoch gress WAC	nastic Signal Processing L 2002, Vol 14, pp653-658,	Jsing Delta - Si Orlando, Florid	gma Modula da, USA 200	ation", Proceedings of the Fifth Biannual World 02.	
5.	B. Antić, Zlatibor 1	N. Pjeva 720. o	alica, A Nev ktobar.	v Approach to Power Grid	Measurements	s - Measurir	ig in Frequency Domain, JUKO CIRED 2006,	
6.	Djuro G. Transacti	Zrilic, No	ebojsa U. F instrumenta	jevalica, "Frequency Devi tion and measurement, ve	ation Measure ol. 53, no.2, ap	ment Based ril 2004, pp.	on Two-Arm D-S Modulated Bridge" IEEE 293-299.	
7.	N. Pjeval merenjim	ica, V. F a i merr	Pjevalica, "N noj opremi,	lerenja na visokonaponsk Zbornik radova, knjiga prv	oj distributivno va, pp505-513,	j mreži prim Beograd, Y	enom digitalnih mernih pretvarača", Simpozijum o ugoslavia,1998.	

SITAS STUD		UNIVERSITY OF NOVI SAD							
1	R	FACULTY OF TECHNICAL SC	EJA OBRADOVICA 6						
20000		Study F	on	Con the second					
OPLANTENS		MASTER ACADEMIC STUDIES			Biomedical Engineering	HO			
Re	Representative refferences (minimum 5, not more than 10)								
8. V. Vujičić, N. Pjevalica, "Stohastička realizacija digit 2000			a digitalnih filtara", D.O	.G.S. 2000 zborn	ik radova, pp.60-63, Novi Sa	ad, Yugoslavia			
9.	9. N. Pjevalica, "Digitalno merilo efektivne vrednosti", Kongres metrologa Jugoslavije 2000, (CD-ROM zbornik radova), Novi S Yugoslavia 2000.				va), Novi Sad,				
10.	10. J. Tomić, N. Pjevalica, Integrisano merilo harmonika, Kongres metrologa, Beograd, 2005 godina.								
Su	Summary data for teacher's scientific or art and professional activity:								
Quotation total :									
Total of SCI(SSCI) list papers :						•			
Curr	ent projects :		Domestic :		International :				



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

Study Programme Accreditation



Name and last name:			Dlančak E M	nčak F. Miroslav					
Nam		ame.							
Acad						ull Protessor			
Name of the institution where the teacher works full time and Factors starting date:			Faculty of Te						
Starting date.			01.01.1975		nalama David Destatucion Mistral				
Scier	itilic or art i		X	1	Plastic Defor	nation Tech	nology, Rapid Prototyping, Virtual		
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title el	ection:	1995	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
PhD	thesis		1985	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
Magi	ster thesis		1979	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology		
Bach	elor's thesis	5	1969	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
List c	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.	IA016	Introdu	uction to Vir	tual Reality Technology		(F10) Eng Studies	ineering Animation, Undergraduate Academic		
2.	P207	Metal	forming			(P00) Prod Studies	duction Engineering, Undergraduate Academic		
3.	P2401	Advan	ced Method	ds in Metal Forming		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P2413	Compu Formir	uter Aided E ng	Design of Tools and Dies	for Metal	(P00) Prod Studies	200) Production Engineering, Undergraduate Academic audies		
5.	P303	Machines for Processing by Deforming				(P00) Prod Studies	duction Engineering, Undergraduate Academic		
6.	P3403	Technology of Plastic Forming - Shaping of plastic material			plastic	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
7.	P3503	Machines and Devices for Plastic Processing			ng	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
8.	BM119D	Reverse engineering and rapid prototyping in biom engineering			in biomedical	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
						(M20) Mea	chanization and Construction Engineering,		
9.	M2062	Mecha	inical engine	eering technologies 2		Undergrad	uate Academic Studies		
			0	0 0		(M40) Tec	chnical Mechanics and Technical Design,		
10	D2407	Danid	Drotot uning	and Ranid Taoling		(PM0) Production Engineering Master Academic Studios			
10.	F2407	Rapiu				(PM0) Production Engineering, Master Academic Studies			
11.	P3001					(PM0) Production Engineering, Master Academic Studies			
12.	P3503A NIT01	Innova	mporary Pro	t Development	Treatment	(PM0) Production Engineering, Master Academic Studies (NIT) Industrial Engineering - Advanced Engineering			
						I echnologi	ies, Master Academic Studies		
14.	BMIM4B	Technologies of shaping biomedical materia			als	(BM0) Biomedical Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies			
15.	MIA11	Machines and dies for powder forming				(PM0) Production Engineering, Master Academic Studies			
16	P321	Rever	se Engineer	ring and Rapid Prototyping	a	(110) Indus	strial Engineering, Master Academic Studies		
17	PMIQD1	Medelling and Simulation of Motel Forming Process			Processes	(PM0) Pro	duction Engineering, Master Academic Studios		
17.		Contemporary Approach to Integration of Reverse			everse		chanical Engineering, Master Academic Studies		
18.	DM411	Engineering of Rapid Prototyping, Tools, Produ			roducts and				
19.	DP001	Design Engine	n and Resea	arch Methods in Productio	on	(M00) Med	chanical Engineering, Doctoral Academic Studies		
20.	DP005	State a	and Tenden / and Equip	icles in Development of M ment	letrology,	(M00) Meo	chanical Engineering, Doctoral Academic Studies		
21.	DP008	Conter	mporary Me	thods and TPD Systems		(M00) Med	chanical Engineering, Doctoral Academic Studies		
22.	DP012	Physic	al Modelling	g and TPD Simulation by	Computers	(M00) Meo	chanical Engineering, Doctoral Academic Studies		
23.	DP015	Nonco	nventional l	Procedures of Forming in	TPD	(M00) Med	chanical Engineering, Doctoral Academic Studies		
24.	DP027	Advan manuf	ced technol acturing	logies of plastics packigin	g	(M00) Meo	chanical Engineering, Doctoral Academic Studies		
25.	DP029	Advan	ced Develo	pment of Polymeric Produ	ucts	(M00) Med	chanical Engineering, Doctoral Academic Studies		

UNIVERSITY OF NOVI SAD



Study Programme Accreditation



.01	LANTEN	MASTER ACADEMIC STUDIES			Biomedical Engineering	e Hos
Rep	Representative refferences (minimum 5, not more than 10)					
1.	Essa K., Kacmarcik I., Hartley P., Plancak M., Vilotic D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing Technology, 2012, Vol 212, Nr 4, pp. 817-824, ISSN/ISBN: 0924-0136					
2.	, Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, Experimental Mechanics, 2006, Vol 46, pp. 115-120, ISSN: 0014-4851					
3.	Plančak M., Bramley A. N., Osman F. H.: Some observation on contact stress measurement by pin load cell in bulk metal forming, Journal of Material and Processing Technology 60, 1996, pp. 339-342, ISSN/ISBN: 0924-0136					
4.	Plančak M., Bramley A. N Osman F. H.: Non conventional cold extrusion, Journal of Material and Processing Technology 34, 1992, pp. 465-472, ISSN/ISBN: 0924-0136					
5.	Hiroši I., Plančak M.: Coining process as a means of controlling surface microgeometry, Journal of Material Processing Technology, Vol 80-81, 1998, pp. 101-107, ISSN/ISBN: 0924-0136					
6.	6. Plančak M., Vollertsen F., Woitschig J.: Analysis, finite element simulation and experimental investigation of friction in tube hydroforming, Journal of Material Processing Technology, Vol. 170, Issue I-2, 2005, pp.220-228, ISSN/ISBN: 0924-0136					
7.	7. Vollertsen F., Plančak M.: On possibilities for the determination of the coefficient of friction in hydroforming of tubes, Journal of Material processing Technology, Vol 125-126, 2002, pp. 412-420, ISSN/ISBN: 0924-0136					
8.	Plančak M.: Stress distribution within specimen in cold forward extrusion of steel, Journal of Materials Processing Technology, Vol 24, 1990, pp. 387-394, ISSN/ISBN: 0924-0136					
9.	9. Vilotic D., Alexandrov S., Plancak M., Vilotic M., Ivanisevic I., Kacmarcik I.: Material Formability at Upsetting by Cylindrical and Flat Dies, Steel Research International Special Issue, 2012, pp. 1175-1178, ISSN: 1611-3683					
10.	10. Plancak M., Hartley P., Essa K., Vilotic D., Movrin D, Luzanin O.: Deformation analysis during bi-metallic coining operations, Steel Research International Special Issue, 2012, pp. 1247-1250, ISSN/ISBN: 1611-3683					
Sur	mmary data fo	r teacher's scientific or art and prof	essional activity:			
Quot	tation total :		92			
Tota	I of SCI(SSCI) list papers :	23			
Curr	Current projects : Domestic : 1 International : 2					2



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:			Sečujski S. Milan					
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			
Starting date.			15.06.2000		Oliveral Descention			
Scier	ntific or art f		Veer	Institution	Telecommunications and Signal Processing			
Acad	iemic caries	er Is stiener	Year	Institution	Field			
Acad	thooic	lection:	2010	Faculty of Technical Sci	ences - Novi Si	ad	Telecommunications and Signal Processing	
Magi	eter thesis		2009	Faculty of Technical Sci	ences - Novi S	au	Telecommunications and Signal Processing	
Bach	elor's thesi		1002	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing	
List	of courses h	eina he	ld by the te	acher in the accredited stu	Idv programme	20	releasing	
LIST								
	ID	Course	e name			Study pro	gramme name, study type	
1.	EK314	Digital	Signal Pro	cessina		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	EK411	Digital	Filters			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
						(F10) Eng Studies	ineering Animation, Undergraduate Academic	
3.	EK421	Digital	Image Proc	cessing		(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies		
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	Z413A	Acoustics and Noise Protection				(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
5.	BM118B	Acous	tics and Au	dio Engineering in Medicir	ne	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
6.	E137	Basics of Telecommunications				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
7.	EK312	Acoustics and Audio Engineering				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
8.	EK312L	Acoustics and Audio Engineering in Multim			edia	(F10) Eng Studies	ineering Animation, Undergraduate Academic	
9.	EK422	Digital Audio Signal Processing				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
10.	ETI27	Audio Engineering				(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies	
11.	ETI35	Digital Sound Processing				(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies	
10	EKEDA	Inform	ation and C	communication Theory		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies	
12.	EK921	morm		ommunication Theory		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
						(F20) Eng	ineering Animation, Master Academic Studies	
13.	EK522	Compu	uter Vision (Digital Image Processing	2)	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
14.	S0151	Applica Teleco	ation of Dig	ital Signal Processing in ons		(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies	
15.	SI036	Compu	uter-Teleph	ony Integration		(E00) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Professional Studies	
16.	SI037	Teleco	ommunicatio	on Infrastructure of E-Busi	ness	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies		
17.	BMIM2A	Assisti	ve Informat	ion and Communications	Technologies	(BM0) Biomedical Engineering, Master Academic Studies		
18.	EK422L	Digital	Audio Sign	al Processing		(F20) Eng	ineering Animation, Master Academic Studies	
Reg	Representative refferences (minimum 5, not more than 10)							

UNIVERSITY O	F NOVI SAD
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Study Programme Accreditation



MASTER ACADEMIC STUDIES

Rep	Representative refferences (minimum 5, not more than 10)									
1.	Milan Sečujski, Radovan Obradović, Darko Pekar, Ljubomir Jovanov, Vlado Delić: "AlfaNum System for Speech Synthesis in Serbian Language", Lecture Notes in Artificial Intelligence – Subseries of Lecture Notes in Computer Science, 2002, pp. 237- 244, ISSN 0302-9743.									
2.	Bojović Ž., Perić Z., Delić V., Šećerov E., Seču a live VoIP network using SIP protocol", Electro	jski M., Šenk V.: "Cor onics and electrical en	nparative Analysis gineering, 2012, \	s of the Performance of Diffe /ol. 117, No 1, pp. 37-42, IS	rent Codecs in SN 1392-1215					
3.	Popović B., Janev M., Pekar D., Jakovljević N., Gnjatović M., Sečujski M., Delić V.: A Novel Split-and-Merge Algorithm for Hierarchical Clustering of Gaussian Mixture Models, DOI:10.1007/s10489-011-0333-9, Applied Intelligence, 2012, Vol. 37, No 3 (2012), pp. 377-389, ISSN 0924-669X									
4.	Delić V., Bojanić M., Gnjatović M., Sečujski M., Jovičić S.: Discrimination capability of prosodic and spectral features for emotional speech recognition DOI: http://dx.doi.org/10.5755/j01.eee.18.9.2806, Electronics and electrical engineering, 2012, Vol. 18, No 9, pp. 51-54, ISSN 1392-1215									
5.	Delić V., Sečujski M., Jakovljević N., Janev M., Obradović R., Pekar D.: "Speech Technologies for Serbian and Kindred South Slavic Languages", 9th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from: http://www.intechopen.com/articles/show/title/speech-technologies-for-serbian-and-kindred-south-slavic-languages, SCIYO, 2010, str. 141-164, ISBN 978-953-307-097-1									
6.	Pekar D., Mišković D., Knežević D., Vujnović Sedlar N., Sečujski M., Delić V.: "Applications of Speech Technologies in Western Balkan Countries", 7th Chapter in the book Advances in Speech Recognition, Noam R. Shabtai (Ed.) Available from http://www.intechopen.com/articles/show/title/applications-of-speech-technologies-in-western-balkan-countries, SCIYO, 2010, str. 105-122 USBN 978-953-307-097-1									
7.	Sečujski M.: "Development of language resour "Speech and Language: Interdisciplinary Rese 139, UDK: ISBN 978-86-81879-27-6	rces for the Serbian la arch III", Eds.: S. T. Jo	nguage required f vičić, M. Sovilj, B	or part-of-speech tagging", 0 eograd, LAAC and IEPPS, 2	Chapter in book: 009, str. 125-					
8.	Milan Sečujski: A Software Tool for Automatic pp. 97- 103, UDK: 004.934 : 004.4, ISSN 1451	Part-of Speech Taggir -7124.	ıg in Serbian Lanç	guage, Primenjena lingvistika	a, 2008, No. 9,					
9.	Vlado Delić, Darko Pekar, Radovan Obradović Universitatis (Niš), Series: Electronics and Ene	, Milan Sečujski: "Speo rgetics, 2003, Vol. 16,	ech Signal Proces No. 3, pp. 355- 3	ssing in ASR&TTS Algorithm 64, ISSN 0353-3670.	s", Facta					
10.	Jakovljević N., Sečujski M., Delić V.: Vocal Tra EUROCON, Sankt Peterburg: IEEE, 18-23 Maj	act Length normalizatio , 2009, pp. 417-420, l	on strategy based SBN 978-1-4244-	on maximum likelihood crite 3861-7	rion, 8.					
Sun	nmary data for teacher's scientific or art and profe	essional activity:								
Quot	ation total :	0								
Total	of SCI(SSCI) list papers :	4								
Curre	ent projects :	Domestic :	2	International :	0					



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:				Simić S. Srboljub			
Academic title	:			Full Professo	r		
Name of the in	stitution v	vhere the te	acher works full time and	Faculty of Tee	chnical Scie	nces - Novi Sad	
starting date:				25.11.1993			
Scientific or a	t field:		ſ	Mechanics	Mechanics		
Academic car	Year	Institution			Field		
Academic title	election:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
PhD thesis		1999	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
Magister thesi	S	1997	Faculty of Mathematics	- Beograd		Mechanics	
Bachelor's the	sis	1993	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanical Engineering	
List of courses	being he	ld by the te	acher in the accredited stu	udy programme	S		
ID	Cours	e name			Study pro	gramme name, study type	
1. E10	4 Mecha	anics			(E10) Pow Engineerin (MR0) Me Undergrad	ver, Electronic and Telecommunication g, Undergraduate Academic Studies asurement and Control Engineering, uate Academic Studies	
2. GG0	7 Mecha	anics 1			(G00) Civi	I Engineering, Undergraduate Academic Studies	
3. M430	5 Therm	omechanic	S		(M40) Tec Undergrad	chnical Mechanics and Technical Design, uate Academic Studies	
4. Z10	Z108 Fundamentals of Mechanics				(Z01) Safe (ZC0) Clea Academic (Z20) Envir	ety at Work, Undergraduate Academic Studies an Energy Technologies, Undergraduate Studies ronmental Engineering, Undergraduate Academic	
5. M4403	031 Analytical mechanics				(M40) Tec	chnical Mechanics and Technical Design,	
6 M450	Modelling of non-linear systems				Undergrad (M40) Tec	uate Academic Studies chnical Mechanics and Technical Design, Master	
0. 101430	is modelling of non-linear systems				Academic	Studies	
7. BMIM4	A Transp	port phenon	nena and Living systems		(BM0) Bio	medical Engineering, Master Academic Studies	
				(MUU) Mechanical Engineering, Doctoral Academic S			
8. DM40	7 Nonlin	ear Mechai	nics with Nonconservative	(M40) Technical Mechanics, I (OM1) Mathematics in Engine		thematics in Engineering, Doctoral Academic Studies	
	B Select	ed Chanter	s in Dynamics and Contro		(M40) Tec	hnical Mechanics, Doctoral Academic Studies	
10 DZ00	3 Select	ed Chapter	s in Mechanics		(M00) Mechanical Engineering, Doctoral Academic Studies		
Representat	ve reffere	nces (minin	num 5 not more than 10)		(1100)1110		
1. Srbolju	b S. Simio	: Analitička	mehanika: dinamika, stat	oilnost, bifurkac	ije, Fakultet	t tehničkih nauka, Novi Sad 2006., Edicija	
2. Srbolju	b S. Simio	c, Ratko B. I	Maretić: Osnove mehanike 78-86-7892-147-6	e, Fakultet tehr	iičkih nauka	, Novi Sad 2008., Edicija "Tehničke nauke -	
3. B.D. V	ijanovic, 1	Г. Kawaguc	hi, S.S. Simic (1997), A Cl 43-252	lass of Conserv	ation Laws	of Linear Time-Dependent Dynamical Systems,	
4. T.M. A	anackovic -913 <\er	c, S.S. Simi	c (1999), On the optimal s	hape of a Pflüg	ger column,	European Journal of Mechanics, A/Solids, 18 (5),	
5. S.S. Si	mic (2002), On the sy nal of Non-	mmetry approach to poly	nomial conserv	ation laws o	of one-dimensional Lagrangian systems,	
6. T. Rug	geri, S. Si	mić (2004),	Non Linear Wave Propag	ation in Binary	Mixtures of	Euler Fluids, Continuum Mechanics and	
7. T. Rug	geri, S. Si	mić (2007), lels Mather	On the Hyperbolic system	n of a mixture o	f Eulerian fli	uids: a comparison between single- and multi- 7-849 <\eng>	
8. T. Rug	geri, S. Si	mić (2009)	Average temperature and	Maxwellian ite	ration in mu	Ititemperature mixtures of fluids, Physical Review	
9. T. Atar	acković, S	6. Konjik, S 1. Nonlinear	. Pilipović, S. Simić (2009) Analysis: Theory Method	Variational pro	blems with	fractional derivatives: Invariance conditions and	
10. S. Sim	ć (2009) S	Shock struc	ture in continuum models	of gas dynamic	s, Nonlinea	rity, vol. 20, pp. 1337-1366	
Summary da	ta for tead	cher's scien	tific or art and professiona	l activity:			

STAS STUD			WHEN A				
OR	FACULTY OF TECHNICAL SCI						
120005	Study F	Con					
OPLANTENS	MASTER ACADEMIC STUDIES			Biomedical Engineering	HOS		
Quotation total :		7					
Total of SCI(SSCI)	list papers :	9					
Current projects		Domestic ·	1	International ·	1		



Ser State

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:					Simić S. Drag	Simić S. Dragan			
Acad	emic title:					Assistant Pro	fessor			
Nam	e of the inst	itution w	where the te	acher works full time	e and	Faculty of Teo	chnical Scie	nces - Novi Sad		
starti	ng date:					01.03.2009				
Scier	Scientific or art field:					Integral Trans	ansport and Logistics			
Acad	emic cariee	er	Year	Institution			Field			
Acad	emic title el	ection:	2009	Faculty of Technic	al Scie	ences - Novi Sa	ad	Integral Transport and Logistics		
PhD	thesis		2004	Faculty of Science	es - No	ovi Sad		Informatics and Computing		
Magi	ster thesis		2001	Faculty of Technic	al Scie	ences - Novi Sa	ad	Informatics and Computing		
Bach	elor's thesis	S	1987	Faculty of Technic	al Scie	ences - Novi Sa	ad	Electronics and Telecommunications		
List c	of courses b	eing he	d by the tea	acher in the accredit	ted stu	idy programme	S			
	ID	Course	e name				Study pro	gramme name, study type		
1.	S01321	Inform	ation techn	ology basics			(S01) Pos Undergrad	tal Traffic and Telecommunications, uate Academic Studies		
2.	S024N	Inform	ation techno	ologies in transport			(S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies		
3.	S0I598	E-Logi	stics				(S00) Traf Studies	fic and Transport Engineering, Master Academic		
4.	BMIM4E	Data a	nalysis in c	linical research			(BM0) Bio	medical Engineering, Master Academic Studies		
5.	S0M22	PROJE	ECT MANA	GEMENT			(S00) Traf Studies	fic and Transport Engineering, Master Academic		
6.	SI593	Inform planing	ation syster	ns for managing Ent	terpris	e resource	(S01) Postal Traffic and Telecommunications, Master Academic Studies			
7.	DSA00	Logisti	cs of Heter	ogeneous Intensive	Proce	sses	(S00) Traf	fic Engineering, Doctoral Academic Studies		
8.	DSIM9	E-logis	tics				(S00) Traf	fic Engineering, Doctoral Academic Studies		
9.	DSN1	Logistics Systems				(OM1) Ma Studies	thematics in Engineering, Doctoral Academic			
10.	DSSL2	Select	ed topics fro	om inventory manag	jemen	t	(S00) Traf	fic Engineering, Doctoral Academic Studies		
11.	DSSL3	Wareh	ause and s	torage			(S00) Traf	fic Engineering, Doctoral Academic Studies		
12.	DSSL4	Logisti	cs informat	ion systems			(S00) Traf	fic Engineering, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more tha	n 10)					
1.	Dragan S IGPL, Vo	imić, Ilij I. 20, Νι	a Kovačevi im 3, pp. 53	ć, Svetlana Simić, "I 36-549 (2012) ISSN	nsolve 1367-	ency prediction 0751	for assessir	ng corporate financial health". Logic Journal of the		
2.	Svetlana working p	Simić, E opulatio	Dragan Sim	ić, Milan Cvijanović. /IED – Vol. 6, Num	"Clini n. 4, 2	cal and socio-d 012. pp. 1341-	lemographic 1347. ISSN:	c characteristics of tension type headache in 1840-2991		
3.	Simić Sve HealthME	etlana, ED, Vol.	Simić Draga 4, Num. 1 (an: "Relationship be 2010) pp. 21-28	tween	sociodemogra	phic charac	teristics and migraine in working women".		
4.	Dragan S "Soft Con	imić, Sv nputina-	vetlana Sim " Vol. 11. N	ić, "An approach to e Jum 12, October 200	efficie 07, pp	nt business inte . 1185-1192. S	elligent syste	em for financial prediction", In: Mu-Yen Chen (ed.) lag, Berlin Heidelberg (2007). ISSN 1432-7643		
5.	Dragan S Ali, Floria Heidelbei	imić, Zo na Espo rg (2005	oran Budima osito (eds.) 6). ISSN 030	ac, Vladimir Kurbalija "Innovations in Appl 02-9743	a, Mirj lied Ar	ana Ivanović, C tificial Intelliger	Case-Based nce", LNAI v	Reasoning for Financial Prediction, In: Moonis ol. 3533, pp. 839-841. Springer-Verlag, Berlin		
6.	Dragan S Distributio 10.1007/9	5imić, Sv on","Hyb 978-3-64	vetlana Sim orid Artificia 42-28942-2	ić, "Hybrid Artificial I I Intelligent Systems _19, ISSN 0302-974	Intellig s", LNA 43	ence Approach Al, vol. 7208, pr	nes on Vehic 5. 208-220.	cle Routing Problem in Logistics Springer-Verlag Berlin Heidelberg (2012), DOI:		
7.	Dragan S Activities 0302-974	imić, Dr '. "Hybri 3	agana Milu d Artificial I	tinović, Svetlana Sin ntelligent Systems",	nić, Vo LNAI	esna Suknjaja: vol. 6679, pp.	"Hybrid Pati 421-428. Sp	ent Classification System in Nursing Logistics pringer-Verlag, Berlin Heidelberg (2011). ISSN		
8.	Dragan S Artificial I	imić, Sv ntelliger	vetlana Sim nt Systems"	ić, Ilija Tanackov, "A , LNAI vol. 6679, pr	An App p. 429	oroach of Soft C -436. Springer-	Computing A Verlag, Ber	Applications in Clinical Neurology", "Hybrid lin Heidelberg (2011). ISSN 0302-9743		
9.	Dragan S AND SOF Springer-	iimić, Sv ⁻T COM Verlag I	vetlana Sim IPUTING", v Berlin Heide	ić, "A Review: Appro vol. 95, Computer Re elberg, 2011	bach d ecogn	of Fuzzy Models ition Systems 4	s Applicatior 4, pp. 717-7	n in Logistics", "ADVANCES IN INTELLIGENT 26, ISSN 1867-5662, ISBN 978-3-642-20319-0,		
10.	llija Tana "Hybrid A	ckov, Di rtificial I	ragan Simić ntelligent S	, Sinisa Sremac, Jo ystems", LNAI_vol. (ovan T 6076,	epić, Suncica k pp. 32-39. Spr	Kocić-Tanac inger-Verlag	kov: "Markovian Ants in a Queuing System", g, Berlin Heidelberg (2010). ISSN 0302-9743		
Sun	nmary data	for teac	her's scient	ific or art and profes	ssiona	l activity:				
Quot	ation total :				0					

SITAS STUD		UNIVERSITY OF NOVI SAD						
No R	FACULTY OF TECHNICAL SCI							
120000	Study F	Stranger Land						
PLANTER	MASTER ACADEMIC STUDIES			Biomedical Engineering	HO			
Total of SCI(SSCI) list papers :	6						
Current projects :		Domestic :	1	International :	0			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:			Slanka	Slankamenac P. Miloš				
Acad	lemic title:				Assista	ant Pro	fessor		
Nam	e of the inst	itution v	vhere the te	acher works full time a	nd Faculty	y of Te	chnical Scie	nces - Novi Sad	
starti	ing date:				01.02.2	2002			
Scie	ntific or art f	ield:			Electro	onics			
Acad	lemic caries	er	Year	Institution				Field	
Acad	lemic title el	ection:	2011	Faculty of Technical	Sciences -	Novi S	ad	Electronics	
PhD	thesis		2010	Faculty of Technical	Sciences -	Novi S	ad	Electronics	
Magi	ister thesis		2004	Faculty of Technical	Sciences -	Novi S	ad	Electronics	
Bach	nelor's thesis	S	2001	Faculty of Technical	Sciences -	Novi S	ad	Electronics	
List o	of courses b	eing he	ld by the tea	acher in the accredited	study prog	gramme	es		
	ID	Course	e name				Study pro	ogramme name, study type	
1.	EM414	Optoel	lectronics				(E10) Pow Engineerin	er, Electronic and Telecommunication Ig, Undergraduate Academic Studies	
2.	F207	Electro	onics and O	ptoelectronics			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies	
3.	EM430A	Contro	and proce	ss electronics			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
4.	EM444B	Applie	d electronic	S			(E10) Pow Engineerin	er, Electronic and Telecommunication Ig, Undergraduate Academic Studies	
5.	EM455	Electro	onic multime	edia systems			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
6.	EM456	Computers in the supervisory and control			l systems		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
7.	ETI02	Electronics and Telecommunication Develo			elopment T	Tools	(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies	
8.	ETI09	Electronics					(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies	
9.	ETI14	Digital	Electronics				(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies	
10.	ETI22	Senso	rs and Actu	ators			(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
11.	ETI28	Indust	rial Electror	ics			(E02) Electronics and Telecommunications, Undergraduat Professional Studies		
12.	ETI38	Optoel	lectronics fo	r communication and	sensors		(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
13.	DE201S	Select	ed Chapters	s in Optoelectronics ar	d Photonic	S	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
14.	DE503S	Indust	rial Electror	ics			(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
15.	SI013	Applie	d electronic	s in industry			(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
16.	SI035	Electro	onic System	s in Oil Industry			(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
17.	SI042	Optoel	lectronics c	omponents			(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
18.	BMIM1A	Applica	ations of las	ers in medicine			(BM0) Bio	medical Engineering, Master Academic Studies	
19.	DE117S	Select	ed chapters	from optoelectronics	ensors sys	stems	(E11) Pow Engineerin	ver, Electronic and Telecommunication Ig, Specialised Academic Studies	
20.	DE315S	Optoel	lectronics s	ensors systems-advan	ced course		(E11) Pow Engineerin	ver, Electronic and Telecommunication Ig, Specialised Academic Studies	
21.	DE418S	Desigr	n of comple	c optoelectronics syste	ms		(E11) Pow Engineerin	ver, Electronic and Telecommunication Ig, Specialised Academic Studies	
22.	EM435A	Electro	onic System	s in Oil Industry			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
23.	EM437A	The ap	oplication of able energy	electronic systems in	clean and		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	



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

Study Programme Accreditation

Biomedical Engineering

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

	ID	Course name		Study program	me name, study type			
24.	EM439A	Electronics in veichles		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
25.	EM520	Industrial networks and protocols		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
26.	EM521	Applied optoelectronics		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies				
27.	EM523	Applied electronics in industry		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
28.	EM532	Design of electronic devices.		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion		
29.	F510E1	Electronic multimedia systems		(F00) Graphic E Studies	ingineering and Design, Mas	ter Academic		
30.	DE201	Selected Chapters in Optoelectronic	s and Photonics	(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation		
31.	DE400	Complex Digital Systems and High F	Frequency Circuits	(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation		
32.	DE503	Industrial Electronics		(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation		
				(M40) Technica	Mechanics, Doctoral Acade	mic Studies		
33.	DE117	Selected chapters from optoelectron	ics sensors systems	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies				
34.	DE315	Optoelectronics sensors systems-ad	vanced course	(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation		
35.	DE418	Design of complex optoelectronics s	ystems	(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation		
Rep	oresentative	e refferences (minimum 5, not more the	an 10)					
1.	Miloš P. S Novom S	Slankamenac, Miloš B. Živanov, Nikola adu, 281 str., 2010.	a Stojanović "Optoeleł	ktronske kompone	ente -skripta", Fakultet tehnid	ških nauka u		
2.	Miloš Sla nauka u l	nkamenac, Kalman Babković, Ivan Me Novom Sadu, Edicija: Tehničke nauke	ezei: Mikrokontroler 80 – udžbenici, 115 str.)51/8052 - praktik ISBN: 978-86-789	um laboratorijskih vežbi, Fal 92-045-5, Novi Sad, 2007.	kultet tehničkih		
3.	Miloš B. 2 Sadu, Ed	Živanov, Miloš P. Slankamenac, Optoe licija: Univerzitetski udžbenik, 110 str.	elektronika, praktikum ISBN: 978-86-7892-0	za laboratorijske 85-1, UDK: 621.3	vežbe, Fakultet tehničkih na 8:535(075.8)(076), Novi Sad	uka u Novom , 2008.		
4.	Slankam Composi 1098	enac M., Lukić-Petrović S., Živanov M tion dependence and topological effec	., Čajko K.: Electrical ts, SOLID STATE CO	switching behavio MMUN, 2012, Vo	or of bulk Cux(AsSe1.4l0.2)1 I. 152, No 13, pp. 1160-1163	00-x glasses: 3, ISSN 0038-		
5.	Bajić J., S and Actu	Stupar D., Manojlović L., Slankamenao ators A: Physical, 2012, Vol. 185, pp. 3	c M., Živanov M.: A si 33-38, ISSN 0924-424	mple, low-cost, hi I7	gh-sensitivity fiber-optic tilt s	ensor, Sensors		
6.	Stupar D Movemer	., Bajić J., Manojlović L., Slankamenao nts Monitoring Based on Fiber-Optic C	c M., Joža A., Živanov Curvature Sensor, IEE	M.: A Wearable E Sensors Journa	Low-Cost System for Humai I, 2012, ISSN 10.1109/JSEN	n Joint I.2007.90		
7.	Manojlov phase-loo	ić L., Živanov M., Slankamenac M., Ba cked low-coherence interferometry, AF	ajić J., Stupar D.: Higł PPL OPTICS, 2012, V	n-speed and high ol. 51, pp. 4333-4	-sensitivity displacement me 342	asurement with		
8.	Lukić-Pet semicono	trović S., Skuban F., Petrović D., Slani ductors, Journal of Non-Crystalline Sol	kamenac M.: Effect o lids, 2010, Vol. 40, No	f copper on DC ai 10, pp. 108-112,	nd AC conductivity of (As2Se UDK: doi:10.1016/j.jnoncrys	e3)(AsI3) glassy ol.2010.05.009		
9.	Slankam Cu10(As	enac M., Lukić-Petrović S., Živanov M Se1.4l0.2)90, Semicond. Sci. Technol	.: Electrical switching ., 2009, Vol. 24, No 8,	in the bulk metal pp. 1-7, ISSN 02	chalcogenide glassy semice 68-1242, UDK: 10.1088/026	onductor 8-		
10.	Bajić J., S of light, P	Stupar D., Joža A., Slankamenac M., . Physica scripta, 2012, Vol. 149, pp. 1-4	Jelić M., Živanov M.: <i>A</i> I, ISSN 0031-8949, UI	A simple fiber opti DK: doi:10.1088/0	c inclination sensor based o 031-8949/2012/T149/01402	n the refraction 4		
Sur	nmary data	for teacher's scientific or art and profe	essional activity:					
Quot	ation total :		26					
Total	of SCI(SS	CI) list papers :	18					
Curre	ent projects	:	Domestic :	3	International :	2		



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Sovilj N. Bogdan				
Acad	emic title:					Full Professo	r		
Nam	e of the inst	itution v	vhere the te	acher works full tim	e and	Faculty of Te	chnical Scie	nces - Novi Sad	
starti	ng date:					05.01.1973			
Scier	ntific or art f	ield:		c.		Cutting Proce	ssing Tools	and Tribology	
Acad	emic cariee	er	Year	Institution		Field		Field	
Acad	emic title el	ection:	1998	Faculty of Technic	cal Scie	ences - Novi S	ad	Cutting Processing Tools and Tribo	ology
PhD	thesis		1988	Faculty of Technic	cal Scie	ences - Novi S	ad	Cutting Processing Tools and Tribo	ology
Magi	ster thesis		1980	Faculty of Technic	cal Scie	ences - Novi S	ad	Cutting Processing Tools and Tribo	ology
Bach	elor's thesis	5	1972	Faculty of Mechar	nical E	ngineering - No	ovi Sad	Cutting Processing Tools and Tribo	ology
List o	of courses b	eing hel	ld by the tea	acher in the accredi	ted stu	udy programme	s		
	ID	Course	e name				Study pro	gramme name, study type	
1.	P1404	Tribod	iagnostics a	and Maintenance			(P00) Proo Studies	duction Engineering, Undergraduate	Academic
2.	P1502A	Tribolo	рду				(P00) Prod Studies	duction Engineering, Undergraduate	Academic
3.	P302	Tools f	for Cutting I	Processing			(P00) Proo Studies	duction Engineering, Undergraduate	Academic
4.	P4409	Evoluti	ion Method	S			(P00)Proo Studies	duction Engineering, Undergraduate	Academic
5.	P1502B	Conter	mporary To	ols in CIM Systems			(PM0)Pro	duction Engineering, Master Acaden	nic Studies
6.	BMIM4F	4F Biotribology					(BM0) Bio	medical Engineering, Master Acader	mic Studies
7.	PP103	3 Measurement and tools in precision engineering				ering	(PM0)Pro	duction Engineering, Master Acaden	nic Studies
8.	SMI003	Software support for cutting tools and fixtures modeling				es modeling	(PM0)Pro	duction Engineering, Master Acaden	nic Studies
9.	DM421	Desigr	n and Expoi	tation of Metal Cutti	ng Ma	chine Tools	(M00) Me	chanical Engineering, Doctoral Acade	emic Studies
10.	DM422	Tribolo	ogy				(M00) Me	chanical Engineering, Doctoral Acade	emic Studies
11.	ZRD21	Tribod selecte	iagnostics a ed chapters	and maintenance of	tehnic	al systems-	(Z01) Safe	ety at Work, Doctoral Academic Stud	lies
Rep	oresentative	reffere	nces (minin	num 5, not more tha	in 10)				
1.	Sovilj, B.: mašinstvo	Profilni o, Jugos	noževi, No slovensko d	vi Sad, Univerzitet ι ruštvo za tribologiju	u Novo , 1995	om Sadu, Foru . 268str.,	n OJ Izdava	ička delatnost, FTN-Institut za proizv	vodno
2.	Sovilj. B.:	Identifil	kacija tribol	oških procesa pri oo	dvalno	m glodanju, No	vi Sad, IPM	, FTN, 1988.	
3.	Sovilj B., Tribomec	Sovilj-N hanical	likić I., Ješić Systems, N	ć D., Measurement l /letalurgija, Vol. 50,	Metho No. 1,	dology of Char pp. 107-111, 2	acteristics a 2011, ISSN (nd Election of Materials of Elements 0543-5846	of
4.	SOVILJ, milling to	B., TOD ol in dep	IĆ, V., BAE pendence o	BIĆ, M., NIKIĆ, Z.:, F n wear criterion, Tril	Relatio bology	nship between in industry, 19	tool life and 98, Vol. 4, s	d cutting speed by uncoated and coa str. 105- 110,	ted end
5.	Sovilj, B., features o	Sovilj-N of produ	Nikić, I., Ješ ct, Metalur	ić, D., The effect of gija, Vol. 51, No. 1,	specif pp. 21	ic relationship -24, 2012, ISS	between ma N 0543-584	iterial and coating on tribological and 6	l protective
6.	SOVILJ, hob millin	B., PRA g tools,	POTNIK, B Tribology ii	., MITROVIĆ, R., To n industry, 1999, Vo	ODIĆ, ol. 21, l	V.: ,Influence (No. 2, str. 53- §	of gearing pi 58,,	rocess on the occurence of cutting e	dge break by
7.	SOVILJ, milling to	B., TOD ol in dep	IĆ, V., BAE pendence o	BIĆ, M., NIKIĆ, Z.:, F n wear criterion, Tril	Relatio bology	nship between in industry, 19	tool life and 98, Vol. 4, s	d cutting speed by uncoated and coastr. 105- 110,,	ited end
8.	SOVILJ, hob millin	B., PRA g tools,	POTNIK, B Tribology i	., MITROVIĆ, R., To n industry, 1998, Vo	ODIĆ, ol. 3, st	V.: ,Influence (r. 73- 78,,	of gearing p	rocess on the occurence of cutting ed	dge break by
9.	SOVILJ E elements	3., ZLOK of hob i	COLICA M., milling tools	ĐOKIĆ V., SOVILJ in model and real of	I-NIKIĆ conditi	CI.: Identifications, 2-nd Worl	on of tribolog d Tribology	gical processes on uncoated and coa Congress, Vienna, Austria: 2001,	ated cutting
10.	Sovilj-Nik tools from	ić, I., So n econor	ovilj, B., Kar mical aspec	ndeva, M., Gajić, V., ct, Journal of the Ba	, Sovil alkan T	lj-Nikić, S., Leg ribological Ass	utko, S., Ko sociation, Vo	vač, P., Tribological characteristics c bl.18, No. 4, pp. 577-585, 2012, ISSN	of hob milling N 1310-4772
Sur	nmary data	for teac	her's scient	tific or art and profe	ssiona	l activity:			
Quot	ation total :				3				
Total	of SCI(SSC	CI) list p	apers :		3				
Curre	ent projects	:			Dome	stic :	1	International: 2	2



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Sovilj M. Platon				
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:				01.10.2007				
Scier	ntific or art f	ield:			Electrical Mea	asurements			
Acad	lemic caries	er	Year	Institution			Field		
Acad	Academic title election: 2011 Faculty of Technical Sector					ad	Electrical Measurements		
PhD	thesis		2011	Faculty of Technical Science	ences - Novi S	ad	Electrical and Computer Engineering		
Magi	ster thesis		2006	Faculty of Technical Sci	ences - Novi S	ad	Biomedical Engineering		
Bach	elor's thesis	S	1997	Faculty of Technical Sci	ences - Novi S	nces - Novi Sad Electronics			
List c	of courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	BM119E	Techni and sy	ical standar stems	ds and regulations for me	dical devices	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
2.	BMI115	Biome	dical Engine	eering in Cognitive Neuros	science	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
3.	EI408	Projec	t Managem	ent		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
л	FIDMS1	Microp	rocessor ba	ased measurement and da	ata	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
4.		acquisition systems 1				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
F	EIDMOO	Microprocessor based measurement and acquisition systems 2			ata	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
5.	EIDIVI32					(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
					(BM0) Biomedical Engineering, Undergraduate Acad Studies				
6.	EIMMB M	Metho system	ds of measu ns in biome	urement and measuremer dicine	nt-acquisition	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
7.	EIPDMS	Progra Systen	Imming of N ns	leasurement and Data Ac	quisition	(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
8.	EIVI	Virtual	measurem	ent systems		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
0		Wah h	and Man	urament and Data Assuin	itian Sustama	(MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
9.	EIVUS	vveb-b	aseu meas	urement and Data Acquis	nion Systems	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
10.	BMIM5A	Virtual	measurem	ent instrumentation in bior	medicine	(BM0) Bio	medical Engineering, Master Academic Studies		
11.	BMIM5B	Desigr system	n and develo	opment of medical devices	s and	(BM0) Bio	medical Engineering, Master Academic Studies		
12.	BMIM5C	Brain (Computer Ir	iterface		(BM0) Bio	medical Engineering, Master Academic Studies		
13.	BMIM5D	Magne	tic-Resona	nce Devices in Biomedicir	ne	(BM0) Bio	medical Engineering, Master Academic Studies		
14.	BMIM5E	Distrib biomed	uted measu dicine	rement and acquisition sy	/stems in	(BM0) Bio	medical Engineering, Master Academic Studies		
15	EIIKI	Engine	ering comr	nunication, logistics and ir	ntellectual	(MR0) Me Academic	asurement and Control Engineering, Master Studies		
10.		proper	ty			(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
10			imo Ma			(MR0) Me Academic	asurement and Control Engineering, Master Studies		
16.	EIWKV1	Real I	ine weasu	rements		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
17.	DE303	Biome	dical Instrur	nentation		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		

APS S	TAS STUDIO	FACULTY OF TECHNICAL SCI	UNIVERSITY OF NO	VI SAD SAD. TRG DOSIT	EJA OBRADOVIĆA 6	STHUNKAX MAL				
ND. 20		Study P	Programme A	ccreditatio	on	Fro				
.0	LANTEN	MASTER ACADEMIC STUDIES			Biomedical Engineering	A HOS				
List o	of courses b	eing held by the teacher in the accred	lited study programme	S						
	ID	Course name		Study programme name, study type						
18.	8. DE417 Web-based Measurement Systems (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies									
19.	DE518	Brain Computer Interface Systems		(E10) Power, El Engineering, Do	ectronic and Telecommunicator ctoral Academic Studies	ation				
Re	Representative refferences (minimum 5, not more than 10)									
1.	1. Sovilj P.: Stohastičko digitalno merenje EEG signala, Novi Sad, Fakultet tehničkih nauka, 2010									
2.	2. Sovilj P.: Eksterno testiranje površinskih kalemova uređaja za magnetsku rezonancu, FTN Novi Sad, 2006									
3.	3. Sovilj P., Milovančev S., Vujičić V.: Digital Stochastic Measurement of a Nonstationary Signal With an Example of EEG Signal Measurement, IEEE Transactions on Instrumentation and Measurement, 2011, Vol. 60, No 9, pp. 3230-3232, ISSN 0018-9456									
4.	Sovilj P., Telecomr	Pjevalica N.: FPGA based model of p nunications society, Belgrade, 24-26	processing EEG signa Novembar, 2009, pp. 6	l, 17. Telekomuni 677-680, ISBN 97	kacioni forum TELFOR, Beo '8-86-7466-375-2	grad:				
5.	Sovilj P., Accompli Banja Lul	Čabrilo N., Vujičić V., Župunski I.: Re shments in Electrical and Mechanical ka, 26-28 Maj, 2011, pp. 885-891, ISE	emote measurements Engineering and Infor 8N 978-99938-39-36-1	by ZigBit wireless mation Technolog , UDK: 621(082);	module, 10. International Co gy - DEMI, Banja Luka: Maši 621.3(082)	onference on nski fakultet				
6.	Sovilj P., Telekomu	Davidović D., Beljić Ž., Ković V.: Mea unikacioni forum TELFOR, Beograd: 1	asurement and proces ELFOR, 22-24 Noven	sing of event-rela nbar, 2011, pp. 68	ted brain potential records, 1 33-686, ISBN 978-1-4577-14	19. 198-6				
7.	Pjevalica tehnološk	N., Pjevalica V., Sovilj P.: Tehničko r kog razvoja TR-11005, 2011	ešenje: Unapređeni a	lgoritam upravljan	ija memorijom, Razvijeno: u	okviru projekta				
8.	Ivanović I Managen	M., Sovilj P.: Developing Expert Systement	em for assessment of	quality managem	ent level, International Journ	al Total Quality				
9.	M. Bobre	k, Z. Tanasić, P. Sovilj: Upravljanje pr	ojektima, udžbenik, M	FBL, Banja Luka,	2006					
10.	M. Bobre	k, M. Soković, P. Sovilj, Z. Tanasić: U	pravljanje kvalitetom,	udžbenik, MFBL,	Banaj Luka 2006, COBISS.	SI-ID 982249				
Su	mmary data	for teacher's scientific or art and profe	essional activity:							
Quot	tation total :		5							
Curr	ent projects	:	Domestic :	2	International :	1				



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Spasić T. Dragan			
Acad	lemic title:				Full Professo	r		
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	ences - Novi Sad	
starti	ng date:				01.09.1985			
Scier	ntific or art f	ield:	Maar	1	Mechanics			
Acad	iemic caries	er	Year		N : 0			
Academic title election: 2005 Faculty of Technical S					ences - Novi S	ad	Mechanics	
PhD	thesis		1993	Faculty of Technical Sci	ences - Novi Si	ad	Mechanics	
Magi	ster thesis	-	1991	Faculty of Mathematics	- Beograd	1	Mechanics	
Bach	elor's thesis	s 	1884	Faculty of Technical Sci	ences - Novi S	ad	Information-Communication Systems	
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es I		
	ID	Course	e name			Study pro	ogramme name, study type	
						(A00) Arcl	hitecture, Undergraduate Academic Studies	
1.	A207	Mecha	inics			(F10) Eng Studies	ineering Animation, Undergraduate Academic	
						(H00) Mea	chatronics, Undergraduate Academic Studies	
2.	H112	Mecha	nics 1 – Fu	ndamentals		(S00) Trat Academic	ffic and Transport Engineering, Undergraduate Studies	
3.	H201	Mecha	nics 2 - Ge	neral		(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H303	Mecha	tronics 3 –	Further Chapters		(H00) Med	chatronics, Undergraduate Academic Studies	
						(F10) Eng Studies	ineering Animation, Undergraduate Academic	
5.	1600	Industi	rial Robotic	5		(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
						(E10) Pow Engineerin	er, Electronic and Telecommunication ng, Undergraduate Academic Studies	
6.	M4302	Biomechanics and mechanics of sport				(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
7.	ASO	Introdu	uction to eng	gineering		(AS0) Sce Undergrad	enic Architecture, Technique and Design, luate Academic Studies	
	DMI407	Diama				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
8.	BMI127	Biome	cnanics			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	BMI128	Contin	uum Biome	chanics		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
10.	BMI96	Mecha	inics			(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
11.	II1004	Mecha	nics and In	dustrial Engineering		(I10) Indus Studies	strial Engineering, Undergraduate Academic	
12.	M44041	Dynam	nics of non-	smooth mechanical syste	ms	(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
13.	M44061	Optimi	zation of m	echanical systems		(M40) Teo Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
14.	BMIM4A	Transp	oort phenon	nena and Living systems		(<u>B</u> M0) Bio	medical Engineering, Master Academic Studies	
15.	M45991	Biome	chanics of o	cardiovascular system		(M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies	
16.	SZD051	Applica enviro	ations of op nment prote	timal control theory in livir	ng	(Z00) Env Studies	ironmental Engineering, Specialised Academic	
						(H00) Med	chatronics, Doctoral Academic Studies	
						(M00) Me	chanical Engineering, Doctoral Academic Studies	
17.	DM406	Nonsm	nooth Mech	anics and Optimization		(M40) Tec	chnical Mechanics, Doctoral Academic Studies	
						(OM1) Ma Studies	thematics in Engineering, Doctoral Academic	
18.	DZ003	Select	ed Chapter	s in Mechanics		Studies (M00) Mechanical Engineering, Doctoral Academic Studie		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



			,1 0						
	ID	Course name		Study program	me name, study type				
19.	ZD051	Applications of optimal control theory environment protection	/ in living	(Z00) Environm Studies	ental Engineering, Doctoral <i>i</i>	Academic			
20.	DM801	Biomedical mechanics		(M40) Technica	I Mechanics, Doctoral Acade	mic Studies			
				(H00) Mechatronics, Doctoral Academic Studies					
	571400			(M00) Mechanical Engineering, Doctoral Academic Studi					
21.	DTM02	I heory of impact		(M40) Technical Mechanics, Doctoral Academic Studies					
				(S00) Traffic Engineering, Doctoral Academic Studies					
22.	DTM03	Biomechanical models and analysis	of impact	(M40) Technica	I Mechanics, Doctoral Acade	mic Studies			
23.	ZRD16A	Selected chapters in mechanics and	elasticity theory	(Z01) Safety at	Work, Doctoral Academic St	udies			
Rep	oresentative	refferences (minimum 5, not more th	an 10)						
1.	1. Spasić D., Glavardanov V.: Does generalized elastica lead to bimodal optimal solutions?, International Journal of Solids and Structures, 2009, Vol. 46, No 14-15, pp. 2939-2949, ISSN 0020-7683								
2.	2. Grahovac N., Žigić M., Spasić D.: On impact scripts with both fractional and dry friction type of dissipation, INT J BIFURCAT CHAOS, 2012, No Prihvaćen za štampu, ISSN 0218-1274								
3.	3. D. T. Spasic and T. M. Atanackovic (2004), "Bimodal optimization of a compressed rotating rod", Acta Mechanica, 173, N 1-4, 77- 87								
4.	Spasić D Vol. 72, N	.: Optimizing the elctrodynamical stat lo 9, pp. 112-121, ISSN 0005-1179	pilization method for a	man-made Earth	satellite, AUTOMAT REM C	ONTR , 2011,			
5.	Petrović I 125-128,	_j., Spasić D., Atanacković T.: On a r ISSN 0109-5641	mathematical model of	f a human root de	ntin , Dental Materials, 200	5, Vol. 21, pp.			
6.	Mitić G., s disease,	Spasić D.: Clinical Characteristic and GYNECOL OBSTET INVES, 2011, Vo	type of thrombophilia ol. 72, No 2, pp. 103-1	in women with pr 08, ISSN 0378-73	egnancy-related venous thro 346	mboembolic			
7.	T. M. Ata Applied N	nackovic and D. T. Spasic, (2004): "O /lechanics, 71, 134-138	n viscoelastic complia	nt contact-impact	models", Transactions of AS	SME Journal of			
8.	Radovic I opportuni Sad, (mo	R., Spasic D.T., Karadzic B., Novakov ties for the city of Novi Sad"", Coordir nograph 157 pages in English and Se	ic B., Atanackovic J., . ated by T. Atanackovi rbian)	Jelicic Z and Tep c, The Danube C	pavcevic B., (2002), ""New cl ommision of EU and The Un	hallenges and iversity of Novi			
9.	Spasić D knjiga, 20	.: Boudary elements, theory and appl 011	ications (English to se	rbian traslation do	one by D.T. Spasić), Beograd	d, Gradjevinska			
10.	BD Vujan 1997.	ović, DT Spasić: Metodi optimizacije:	primenjeni varijacioni	račun, analitička i	mehanika, optimalno upravlja	anje, UNS,			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		16						
Total	of SCI(SSC	CI) list papers :	8						
Curre	Irrent projects : Domestic : 1 International : 0								



Study Programme Accreditation



Biomedical Engineering

Nam	lame and last name:				Šešlija D. Dragan				
Acad	emic title:				Full Professo	r			
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Tee	chnical Scie	nces - Novi Sad		
starti	ng date:	- I - I -			15.06.1985	Dahatiana			
Scier	ntific or art f	ield:	Veer	Institution	Mechatronics	, Robotics a	Field		
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	ection:	2007	Faculty of Technical Scie	ences - Novi Sa	ad	Integral Systems		
PhD	thesis		1997	Faculty of Technical Scie	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Intelligent Systems		
Magi	ster thesis		1989	Faculty of Technical Scie	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Intelligent Systems		
Bach	elor's thesis	5	1981	Faculty of Technical Scie	ences - Novi Sa	ad	Internal Combustion Engines		
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	idy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	H1401	Materi	al Handling	Technologies		(H00) Mec	chatronics, Undergraduate Academic Studies		
2.	H1403	Autom	ation of wor	rk processes		(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H1504	Comp	uter Integrat	tion of Production System	s	(H00) Med	chatronics, Undergraduate Academic Studies		
4.	H310	Comp	onents of te	chnological systems		(H00) Mec	chatronics, Undergraduate Academic Studies		
5.	II102	The ba	asic theory o	of industrial systems		(SII) Softw Undergrad	vare and Information Technologies (Inđija), uate Professional Studies		
6.	II1000	Funda	mentals of i	ndustrial engineering and	management	(I10) Indus Studies	strial Engineering, Undergraduate Academic		
7.	II1011	Autom	ation of wor	rk processes 1		(110) Indus Studies	strial Engineering, Undergraduate Academic		
8.	II1013	Material Handling Technologies				(110) Indus Studies	strial Engineering, Undergraduate Academic		
9.	II1029	Computer integrated manufacturing				(I10) Indus Studies	strial Engineering, Undergraduate Academic		
10.	II1038	Autom	ation of wor	rk processes 2		(110) Indus Studies	strial Engineering, Undergraduate Academic		
11.	ll1042	Autom	ation of Cor	ntinual Processes		(I10) Industrial Engineering, Undergraduate Academic Studies			
12.	IM1001	Funda	mentals of i	ndustrial engineering		(120) Engineering Management, Undergraduate Academic Studies			
13.	IM1117	Comp	uter integrat	ed manufacturing (CIM)		(I20) Engin Studies	eering Management, Undergraduate Academic		
14.	H505	Impler	nentation of	automated systems		(H00) Mec	chatronics, Master Academic Studies		
15.	HDOK4 S	Select	ed chapters	from automation of work	processes	(112) Indus	strial Engineering, Specialised Academic Studies		
16.	1829	Autom	ation of pac	kaging processes		(110) Indus	strial Engineering, Master Academic Studies		
17.	1830	Energ	y efficiency	of compressed air system	S	(110) Indus	strial Engineering, Master Academic Studies		
18.	IMDR0S	Select and co	ed chapters	in enterprise's design, or	ganization	(I12) Indus (I22) Engii Studies	strial Engineering, Specialised Academic Studies neering Management, Specialised Academic		
19.	PLM04	Sustai	nable Produ	uction and LCA		(I1U) Induand Develo	strial Engineering - Product Lifecycle Management opment, Master Academic Studies		
20.	LIM34	Materi	al Handling			(LIM) Logi Academic	stic Engineering and Management, Master Studies		
21.	NIT02	Factor	y Automatic	on		(NIT) Indu Technologi	strial Engineering - Advanced Engineering ies, Master Academic Studies		
22.	NIT05	Advan	ced Techno	logy for Material Handling]	(NIT) Indu Technologi	strial Engineering - Advanced Engineering ies, Master Academic Studies		
23.	BMIM4C	Fluid f	iltration and	separation		(BM0) Bio	medical Engineering, Master Academic Studies		
24.	1911	Sustai	nable produ	iction		(110) Indus	ndustrial Engineering, Master Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



	ID	Course name		Study programn	ne name, study type				
25.	IIDS27	Selected chapters of the energy effices systems	ciency of automated	(I12) Industrial E	ngineering, Specialised Aca	ademic Studies			
26.	IIDS6	Selected chapters in automation		(I12) Industrial E	ingineering, Specialised Aca	ademic Studies			
27.	IM2103	New technologies in engineering and	d management	(I10) Industrial E (I20) Engineering	ngineering, Master Academ Management, Master Acad	nic Studies demic Studies			
				(H00) Mechatronics, Doctoral Academic Studies					
28.	HDOK-4	Selected Chapters in Production Pro	cess Automation	(I20) Industrial E Doctoral Academ	ngineering / Engineering M iic Studies	anagement,			
29.	HDOKL4	Selected chapters from automation of	of work processes	(H00) Mechatror	nics, Doctoral Academic Stu	dies			
30.	IMDR0	Science of Industrial Engineering an	d Management	(I20) Industrial E Doctoral Academ	ngineering / Engineering M iic Studies	anagement,			
		Selected chapters from energy effici	ency of compressed	(H00) Mechatror	nics, Doctoral Academic Stu	dies			
31.	IMDR86	air systems		(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
32.	IMDR80	Selected chapters in automation		(I20) Industrial E Doctoral Academ	ngineering / Engineering M iic Studies	anagement,			
Representative refferences (minimum 5, not more than 10)									
1.	1. Ignjatović I., Komenda T., Šešlija D., Malisa V.: Optimisation of compressed air and electricity consumption in a complex robotic cell, Robotics and Computer-integrated Manufacturing, 2012, ISSN 0736-5845								
2.	Dudić S., infrared t	Ignjatović I., Šešlija D., Blagojević V., hermography, MEASUREMENT, 2012	, Miodrag S.: Leakage 2, Vol. 45, No 7, pp. 16	e quantification of 0 889-1694, ISSN 02	compressed air using ultras 263-2241	ound and			
3.	Ignjatovid and Indu	5 I., Šešlija D., Tarjan L., Dudić S.: Wi strial Research (JSIR), 2012, Vol. 71,	reless sensor system No 5, pp. 334-340, IS	for monitoring of c SN 0022-4456	ompressed air filters, Journ	al of Scientific			
4.	Dudić S., thermovis	Ignjatović I., Šešlija D., Blagojević V., sion, Thermal Science, 2012, Vol. 16,	, Stojiljković M.: Leaka No 2, pp. 621-631, IS	age quantification SN 0354-9836	of compressed air on pi	pes using			
5.	Čajetinac Characte	S., Šešlija D., Aleksandrov S., Todor ristics of a Pneumatic Actuator, Electr	ović M.: PLC Controll onics and electrical er	er used for PWM (ngineering, 2012, V	Control and for Identification /ol. 123, No 7, pp. 21-26, IS	of Frequency SSN 1392-1215			
6.	Blagojevi digital sli	ć V., Šešlija D., Stojiljković M., Dudić ding mode, Sadhana - Academy Proce	S.: Efficient control of eedings in Engineering	servo pneumatic g Science, 2012, I	actuator system utilizing by- SSN 0256-2499	pass valve and			
7.	Blagojevi Scientific	ć V., Šešlija D., Miodrag S.: Cost effe and Industrial Research, 2011, Vol. 7	ectiveness of restoring 0, pp. 170-176, ISSN	energy in execution 0022-4456	on part of pneumatic system	n, Journal of			
8.	Šešlija D Business	., Ignjatović I., Dudić S., Lagod B.: Po Management, 2011, Vol. 5, No 14, pr	tential energy savings 5. 5637-5645, ISSN 19	in compressed ai	r systems in Serbia, African	Journal of			
9.	Šešlija D 174, ISBI	., Ignjatović I., Dudić S.: Increasing th N 978-953-51-0800-9	e Energy Efficiency in	Compressed Air S	Systems, Rijeka, InTech, 20	12, str. 151-			
10.	Stankovs automatiz	ki S., Šešlija D., Rakić-Skoković M., C zaciju i mehatroniku, 2009, ISBN 978-	Ostojić G.: Primena RI 86-907827-3-4	ID tehnologije u a	automatizaciji, Novi Sad, Ce	ntar za			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		10						
Tota	of SCI(SS	CI) list papers :	10						
Curre	ent projects	:	Domestic :	0	International :	3			



Study Programme Accreditation

MASTER ACADEMIC STUDIES



Nam	e and last n	ame:			Tabaković N.	Slobodan			
Acad	emic title:				Assistant Pro	fessor			
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Teo	chnical Scie	nces - Novi Sad		
Starti	ng date:	iold:			10.10.2000	o Flovible I	Feebralagical Systems and Automotization		
Scier		iela:	Voor	Institution	Machine Tool	S, FIEXIDIE I			
Acau		;1	IEai				Machine Tools, Elevible Technological Systems		
Acad	emic title el	ection:	2008	Faculty of Technical Scie	ences - Novi Sa	ad	and Automatization Processes Design		
PhD	thesis		2008	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Magi	ster thesis		2002	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Bach	elor's thesis	6	1998	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	idy programme	S			
	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	Machir	ne Tools De	esigning		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
						(P00) Proo Studies	duction Engineering, Undergraduate Academic		
3.	P1410	Virtual	Product De	esigning		(SE0) Soff Undergrad	tware Engineering and Information Technologies, uate Academic Studies		
					(SEL) Soff Loznica, U	tware Engineering and Information Technologies - ndergraduate Academic Studies			
4.	P301	Automation in Production Engineering				(P00) Prod Studies	duction Engineering, Undergraduate Academic		
5.	P307	7 Automated Flexible Technologial Systems				(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	ZR408A	Safety	at work on	the machines for processi	ing	(Z01) Safe	ety at Work, Undergraduate Academic Studies		
7.	P1405	Conter	mporary Ap	proach to Product Designi	ing	(PM0) Pro	duction Engineering, Master Academic Studies		
8.	PR408	Funda Machir	mentals on res	Protection for Operation c	on Processing	(PM0) Production Engineering, Master Academic Studies			
9.	IM2118	Funda	mentals of	CAD / CAM technology		(I20) Engin	(I20) Engineering Management, Master Academic Studies		
10.	P307A	Flexibl	e technolog	ical systems		(E20) Con Academic	nputing and Control Engineering, Master Studies		
11.	PAUP1	Autom	atization in	plastic		(PM0) Pro	duction Engineering, Master Academic Studies		
12.	PP102	Precis	ion of mach	ine tools		(PM0) Pro	duction Engineering, Master Academic Studies		
13.	PP110	The dy	namics of r	nicro machining systems		(PM0) Pro	duction Engineering, Master Academic Studies		
14.	PP2I12	Desiar	n of prosthe	tic devices		(BM0) Bio	medical Engineering, Master Academic Studies		
						(PM0) Pro	duction Engineering, Master Academic Studies		
15.	SM2	Metho	as and soft	ware tools for computer ai	ded design	(PM0) Pro	duction Engineering, Master Academic Studies		
16. -	ZRMI1A	Occup	ational nois	e and numan vibration in	Industry	(ZU1) Safe	ety at Work, Master Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)		_			
1.	Tabakovi total hip e 1583-790	ć S., Ziv endopro 4	ković A., G sthesis, Aca	rujić J., Zeljković M.: Usin ademic Journal of Manufa	ig CAD/CAE so cturing Enginee	oftware syste ering – AJM	ems in the design process of modular, revision E, 2011, Vol. 9, No 2/2011, pp. 97-102, ISSN		
2.	Tabakovi optimizac međunaro	ć, S., Ži ijom ge odnim u	vković, A., (ometrije po češćem, Be	Gatalo, R., Zeljković, M., N edinih njegovih elemenata eograd: Mašinski fakultet E	/lijušković, M.: a, XXXIII SAVE Beograd, 16-17	Unapređenj TOVANJE jun, 2009, s	e karakteristika univerzalnog zgloba PROIZVODNOG MAŠINSTVA SRBIJE 2009 sa str. 119- 122, ISBN 978-86-7083-662-4.		
3.	Bojanić M Scientific pp. 215-2	1., Taba Confere 18, ISB	ković S., M ence "Adva N 978-86-7	lojević Z., Zeljković M.: P nced Production Technolo 892-419-4	rocessing of di gies" - MMA, N	agnostic im Iovi Sad: Fa	ages of the skeletal system, 11. International akultet tehničkih nauka, 20-21 Septembar, 2012,		
4.	Tabakovi Conferen ISBN 184	ć S., Živ ce on N 3-2522	ković A., G lanufacturin	rujić J., Zeljković M.: Des g Science and Education	ign process of - MSE, Sibiu: l	modular, rev Jniversity of	vision total hip endoprosthesis, 5. International Sibiu, Romania, 2-5 Jun, 2011, pp. 395-398,		



4	TAS STUD		UNIVERSITY OF NO	VI SAD		WHKNX N.				
AN A	NOU DO R	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSII	EJA OBRADOVIĆA 6	STATE -				
2 200000		Study F	Study Programme Accreditation							
.0t	LANTER	MASTER ACADEMIC STUDIES			Biomedical Engineering	e Hos				
Rep	Representative refferences (minimum 5, not more than 10)									
5.	5. Tabaković, S., Gatalo, R., Zeljković, M., Toma, J.: A concept of Automated Design of modular Machine Tools with parallel kinematics based on CAD workpiece model, Machine Engineering, Vol. 2, No 1-2, 2002, pp. 171 - 182									
6.	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									
7.	7. Blanuša V., Zeljković M., Vilotić D., Tabaković S.: The specificity of punch presses programming, Journal for Technology of Plasticity, 2011, Vol. 36, No 2, pp. 121-235, ISSN 0354-3870									
8.	Tabaković industrijskih RS2012124	S., Zeljković M., Mlađenović C., Gat n manipulatora, Beograd, Zavod za 43	talo R.: Uređaj za mar intelektualnu svojinu, (nipulaciju radnim Glasnik intelektua	predmetima ili alatima kod Ine svojine, 2012, UDK: Br	mašina alatki i oj patenta				
9.	TABAKOVI mechanism	Ć, S., ZELJKOVIĆ, M., GATALO, F , Journal of Machine Engineering, 2	R.: A contribution to wo 2007, Vol. 7, No. 1, str	rkspace analysis . 80- 90, ISSN 18	of machine tools based on 95-7595.	parallel				
10.	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									
Sur	nmary data fo	or teacher's scientific or art and profe	essional activity:							
Quot	ation total :		0							
Total	of SCI(SSCI) list papers :	0							
Curre	ent projects :		Domestic :	1	International :	0				



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

	Name and last name:				Tomić I. Josif				
Nam	e and last n	ame:				Assistant Professor			
Acad	iemic title:					Assistant Pro	iessor	nees Nevi Cad	
Nam	e of the inst	titution v	vhere the te	acher works full time	and	Faculty of Te	chnical Scie	nces - Novi Sad	
Scio	nig date.	iold:				Electrical Ma	ocuromonte		
Accel			Voor	Institution			asurements	Field	
Acad			real	Institution	1.0.1	Nevi O	1		
Acad		lection:	2008	Faculty of Technica		ences - Novi S	ad		
PhD	PhD thesis 2007 Faculty of Technical S					ences - Novi S	ad		
Magi	ster thesis		2004	Faculty of Technica	al Scie	ences - Novi S	hces - Novi Sad Electrical Measurements		
Bach	Bachelor's thesis 1990 Faculty of Technical S				al Scie	ences - Novi S	ad	Electrical Measurements	
List of courses being held by the teacher in the accredited st			ed stu	idy programme	s				
ID Course name					Study pro	ogramme name, study type			
1.	E130A	Electri	cal Measure	ements			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	EK301	Measu	rement Sys	stems in Telecommu	nicatio	ons	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3.	EOS10	Labora	atory of elec	trical measurement			(E01) Pov Energy, Ur	ver Engineering - Renewble Sources of Electrical ndergraduate Professional Studies	
4.	EIEEM	Electri	cal and elec	tronic measurement	S		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
5.	EIEEMI	Electri	cal and elec	tronic measurement	is in in	ndustry	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
6.	EIEKI	Electronic Components in Instrumentation			ition		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
7.	EIPR1	Laboratory practicum					(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
8.	EIVI	Virtual measurement systems					(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	EM456	Comp	uters in the	supervisory and con	trol sy	/stems	(E10) Pow Engineerin	er, Electronic and Telecommunication	
10.	ETI28	Indust	rial Electror	lics			(E02) Electronics and Telecommunications, Undergraduate Professional Studies		
11.	ETI38	Optoe	lectronics fo	or communication and	d sens	sors	(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies	
12.	MR0UL R	Introdu	uction to lab	oratory practice			(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies	
13.	DE503S	Indust	rial Electror	iics			(E11) Pow Engineerin	ver, Electronic and Telecommunication	
14.	SI048	Measu	irement Sys	stems in the Field of I	Biome	edicine	(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies	
15.	BMIM5A	Virtual	measurem	ent instrumentation i	n bion	nedicine	(BM0) Bio	medical Engineering, Master Academic Studies	
16.	DE117S	Select	ed chapters	from optoelectronic:	s sens	sors systems	(E11) Pow Engineerin	ver, Electronic and Telecommunication	
17.	DE315S	Optoe	lectronics s	ensors systems-adva	anced	course	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
18.	DE418S	Desigr	1 of comple:	<pre>x optoelectronics sys</pre>	tems		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
					(MR0) Me	asurement and Control Engineering, Master			
19	FIDNU	Super	visory Contr	ol and Data Acquisit	ion Sy	ystems	Academic	Studies	
	2.2.0	Desigr	1				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
							(MR0) Me	asurement and Control Engineering, Master	
20.	EIMRV1	Real T	ïme Measu	rements			Academic	Studies	
							(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies	
21	EIORM	Measu	irement and	Data Processing			(E10) Pow	er, Electronic and Telecommunication	
<u> </u>							Engineerin	g, Master Academic Studies	



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

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

List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	me name, study type				
22.	EM520	Industrial networks and protocols		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion			
23.	EM532	Design of electronic devices.		(E10) Power, Ele Engineering, Ma	ectronic and Telecommunica ster Academic Studies	tion			
24.	DE503	Industrial Electronics		(E10) Power, El Engineering, Do	ectronic and Telecommunica ctoral Academic Studies	ation			
				(M40) Technica	I Mechanics, Doctoral Acade	emic Studies			
25.	DE117	Selected chapters from optoelectronics sensors systems (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies							
26.	DE315	Optoelectronics sensors systems-advanced course (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies							
27.	DE418	Design of complex optoelectronics systems (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies							
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Poljak P., Kušljević M., Tomić J.: Power Components Estimation According to IEEE Standard 1459-2010 Under Wide-Range 1. Frequency Deviations, IEEE Transactions on Instrumentation and Measurement, 2012, Vol. 61, No 3, pp. 636-644, ISSN 0018- 9456								
2.	2. J. Tomić, M. Kušljević, D. Marčetić, An Adaptive Resonator Based Method for Power Measurements According to the IEEE Trial- Use Standard 1459-2000, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 250-258, February 2010.								
3.	 M. Kušljević, J. Tomić, Lj. Jovanović, Frequency Estimation of Three-Phase Power System Using Weighted-Least-Square Algorithm and Adaptive FIR Filtering, IEEE Transactions on Instrumentation & Measurement, Vol. 59, No. 2, pp. 322-329, February 2010. 								
4.	 Tomić J., Kušljević M., Vujičić V.: A New Power System Digital Harmonic Analyzer , IEEE Transactions on Power Delivery, 2007, Vol. 22, No 2, pp. 772-780 								
5.	M. Kušlje condition Septemb	evič, J. Tomić, D. Marčetić, Active pow s and wide-range frequency deviation er 2008.	er measurement algor s, IET Generation, Tra	rithm for power sy ansmission & Dist	rstem signals under non-sinu ribution, Vol. 3, No. 1, pp. 57	soidal ′–65,			
6.	D. Marče Positive V	tić, J. Tomić, M. Kušljević, Unbalance Voltage Sequence, IET Science, Meas	d 3-Phase Distribution surement & Technolog	System Frequen y, 2013. rad prihv	cy Estimation Using LMS Mo /acen za objavljivanje	ethod and			
7.	Bajić J., S LabVIEW communi MIPRO C	Stupar D., Tomić J., Slankamenac M., / Software Package and Low-Cost We ication technology, electronics and mic Croatian Society, 21-25 Maj, 2012, pp.	Joža A., Živanov M.: b Camera, 35. MIPRC croelectronics - Savjet 173-178, ISBN 978-9	Implementation c D - International c ovanje o mikrorač 53-233-069-4	of the Optical Beam Profiler S onvention on information and Sunalima u telekomunikacijar	System Using d ma, Opatija:			
8.	Tomić J., Internatic	, Slankamenac M., Kušljević M., Živan onal Power Electronics	ov M.: A Virtual Labo	ratory for Teachin	g Frequency Estimation Tec	hniques, 15.			
9.	Stupar D., Bajić J., Slankamenac M., Živanov M., Jelić M., Joža A., Tomić J.: Influence of fiber diameter on fiber optic 9. displacement sensor, 16. International Symposium on Power Electronics – Ee, Novi Sad, 26-28 Oktobar, 2011, pp. 1-5, ISBN 978- 86-7892-355-5								
10.	Stupar D., Bajić J., Slankamenac M., Tomić J., Živanov M., Jelić M., Manojlović L.: Optoelectronics system for measuring light- wave attenuation in liquids, 3. Research People and Actual Tasks on Multidisciplinary Sciences, Lozenec: Printing house "Angel Kunchev" University of Rousse 8, Studentska Street, 7016 Rouse, Bulgaria, 8-10 Jun, 2011, pp. 184-188, ISBN 1313-7735								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		46						
Tota	otal of SCI(SSCI) list papers : 6								
Curre	urrent projects : Domestic : 2 International : 0								



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

Study Programme Accreditation



Nam	Name and last name:			Vilotić Ž. Dragiša					
Acad	emic title:	anio.			Full Professor				
Nom	o of the inst	itution w	horo tho to	achor works full time and	Faculty of Ter	chnical Scie	nces - Novi Sad		
starti	ng date:				01.01.1975				
Scier	ntific or art f	ield:			Plastic Deform	nation Tech	nology, Rapid Prototyping, Virtual		
Acad	emic cariee	er	Year	Institution			Field		
Academic title election: 1998 Faculty of Technical Sc			Faculty of Technical Scie	ences - Novi Sa	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual			
PhD	thesis		1986	Faculty of Technical Scie	ences - Novi Sa	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
Magi	ster thesis		1981	Faculty of Technical Scie	ences - Novi Sa	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
Bach	elor's thesis	6	1974	Faculty of Technical Scie	ences - Novi Sa	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
List o	of courses b	eing hel	d by the tea	acher in the accredited stu	idy programme	S			
	ID	Course	e name			Study pro	gramme name, study type		
1.	P207	Metal f	orming			(P00) Proo Studies	duction Engineering, Undergraduate Academic		
2.	P2401	Advanced Methods in Metal Forming				(P00) Proo Studies	duction Engineering, Undergraduate Academic		
3.	P2413	Compu Formin	uter Aided E	Design of Tools and Dies f	or Metal	(P00) Prod Studies	200) Production Engineering, Undergraduate Academic udies		
4.	P303	Machines for Processing by Deforming				(P00) Prod Studies	duction Engineering, Undergraduate Academic		
5.	P3403	Technology of Plastic Forming - Shaping of material			plastic	(P00) Prod Studies	duction Engineering, Undergraduate Academic		
6.	P3503	Machines and Devices for Plastic Processir			ıg	(P00) Proo Studies	duction Engineering, Undergraduate Academic		
7.	M2062	Mecha	nical engine	eering technologies 2		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies			
					Undergraduate Academic Studies		uate Academic Studies		
8.	M3203	Techno	ology of ma	chinery		(M30) Ene	rgy and Process Engineering, Undergraduate Studies		
9.	P3402	Physic	al and Phas	se States of Polymers		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
10.	ZR408A	Safety	at work on	the machines for process	ing	(Z01) Safe	ety at Work, Undergraduate Academic Studies		
11.	P2407	Rapid	Prototyping	and Rapid Tooling		(PM0) Pro	duction Engineering, Master Academic Studies		
12.	P3501	Tool D	esigning for	Plastic		(PM0) Pro	duction Engineering, Master Academic Studies		
13.	P3503A	Conter	nporary Pro	ocess Systems for Plastic	Treatment	(PM0) Pro	duction Engineering, Master Academic Studies		
14.	BMIM4B	Techno	ologies of s	haping biomedical materia	als	(BM0) Bio (PM0) Pro	medical Engineering, Master Academic Studies duction Engineering, Master Academic Studies		
15.	PMISP1	Modelling and Simulation of Metal Forming		Processes	(PM0) Pro	duction Engineering, Master Academic Studies			
16.	PTS01	Technology of sintering				(PM0) Pro	duction Engineering, Master Academic Studies		
17.	DP001	Design and Research Methods in Production		n	(M00) Med	chanical Engineering, Doctoral Academic Studies			
18.	DP005	State a Quality	and Tenden and Equip	cies in Development of M ment	etrology,	(M00) Med	chanical Engineering, Doctoral Academic Studies		
19.	DP008	Conter	nporary Me	thods and TPD Systems		(M00) Med	chanical Engineering, Doctoral Academic Studies		
20.	DP012	Physic	al Modelling	g and TPD Simulation by (Computers	(M00) Med	chanical Engineering, Doctoral Academic Studies		
21.	DP015	Nonco	nventional I	Procedures of Forming in	TPD	(M00) Med	chanical Engineering, Doctoral Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



	ID	Course name		Study programme name, study type				
				(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				
		Current State in the Field		(GI0) Geodesy and Geomatics, Doctoral Academic Studies				
22.	5ID04	Current State in the Field		(H00) Mechatronics, Doctoral Academic Studies				
				(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies				
				(M00) Mechanical Engineering, Doctoral Academic Studies				
				(OM1) Mathematics in Engineering, Doctoral Academic Studies				
				(S00) Traffic Engineering, Doctoral Academic Studies				
				(Z00) Environmental Engineering, Doctoral Academic Studies				
23.	DP026	Modern methods for polymers invest	tigation	(M00) Mechanical Engineering, Doctoral Academic Studies				
24.	DP028	Theoretical basis for forming polyme	r technology	(M00) Mechanical Engineering, Doctoral Academic Studies				
				(A00) Architecture, Doctoral Academic Studies				
25.	SID04	Present State in the Field		(AS0) Scenic Design, Doctoral Academic Studies				
				(Z01) Safety at Work, Doctoral Academic Studies				
Rep	oresentative	refferences (minimum 5, not more th	an 10)					
1.	Essa K., Technolo	Kačmarčik I., Hartley P., Plančak M., gy, 2012, Vol. 212, No 4, pp. 817-824	Vilotić D.: Upsetting o , ISSN 0924-0136	f bi-metallic ring billets, Journal of Materials Processing				
2.	Alexandro Experime	ov S., Vilotić D., Konjovoć Z., Vilotić M ental Mechanics, 2012, Vol. 52, No 113	 An Improved Expension 340, ISSN 0014-4851 	rimental Method for Detrmining the Workability Diagram,				
3.	Alexandro 2009, Vo	ov S., Vilotić D.: A study on an effect I. 76, No 14, pp. 2309-2315, ISSN 007	of geometric singularit 13-7944	ties on ductile fracture , Engineering Fracture Mechanics,				
4.	Vilotić D. Experime	, Plančak M., Čupković Đ., Aleksandro ntal Mechanics, 2006, Vol. 46, pp. 11	ov S., Aleksandrov N.: 5-120, ISSN 0014-485	Free Surface Fracture in Three Upsetting Tests , 51				
5.	Plančak I Steel Res	M., Hartley P., Esssa K., Vilotić D., Mo search International, 2012, pp. 1247-1	ovrin D., Lužanin O.: E 250, ISSN 1611-3683	Deformation analysis during bi-metallic coining operations,				
6.	Vilotić D. Flat Dies	, Alexandrov S., Plančak M., Vilotić M., Steel Research International, 2012, r	., Ivanišević A., Kačma op. 1175-1178, ISSN 1	arčik I.: Material Formability at Upsetting by Cylindrical and 1611-3683				
7.	Vilotić D. Steel Res	, Alexandrov S., Plančak M., Movrin D search International, 2011, pp. 923-92	., Ivanišević A., Vilotić 8, ISSN 1611-3683	M.: Material Formability of Upsetting by V-Shape Dies ,				
8.	Lyamina Research	E., Alexandrov S., Vilotić D., Movrin D I International, 2010, Vol. 9, No 81, pp	.: Effect of Shape of \$. 306-3090, ISSN 161	Samples on Ductile Fracture Initiation in Upsetting, Steel 1-3683				
9.	D. Vilotić, Fakultetu slajdova,	, D. Milikić, M. Plančak, M. Milutinović tehničkih nauka u Novom Sadu, 4. ko Vršac, 13-16. juni 2006.	: Obrazovanje inženje ongres inženjera plasti	ra proizvodnog mašinstva iz oblasti oblikovanja plastike na ičara i gumara K – IPG 2006., zbornik na CDu, ppt 100				
10.	Obradovi MMA 200	ć R., Vilotić D.: Prikaz tehnologije i op)6, strana 27-28, FTN, Novi Sad, juni 2	reme za za ultrazvučn 2006.	o zavarivanje termoplastičnih komponenata, Zbornik radova				
Sur	nmary data	for teacher's scientific or art and profe	essional activity:					
Quot	ation total :		17					
Total	of SCI(SS	CI) list papers :	15					
Curre	ent projects	:	Domestic :	1 International : 1				



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Vujičić V. Vladimir				
Acad	lemic title:				Full Professo	r			
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:				01.09.1975				
Scier	ntific or art f	ield:			Electrical Mea	asurements			
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title el	lection:	2002	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements		
PhD	thesis		1992	Faculty of Technical Sci	ences - Novi S	ad	Electrical Measurements		
Magi	ster thesis		1983	Faculty of Technical Sci	ences - Novi S	ad	Automatic Control and System Engineering		
Bach	elor's thesis	S	1974	School of Electrical Engi	ineering - Beog	jrad	Electrical and Computer 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 pro	gramme name, study type		
1.	E142	Measu	iring Instrun	nents		(MR0) Me Undergrad (E10) Pow Engineerin	asurement and Control Engineering, uate Academic Studies er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	EK301	Measu	rement Sys	tems in Telecommunicati	ons	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
3.	EIEEM	Electri	cal and elec	tronic measurements		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	EIEEMI	Electri	cal and elec	tronic measurements in it	ndustry	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
5.	EIEMER	Electro	onic measur	ements		(E10) Pow Engineerin	er, Electronic and Telecommunication		
6.	EIMMB M	Methods of measurement and measuremen systems in biomedicine			nt-acquisition	(BM0) Bio Studies (MR0) Me Undergrad (E10) Pow	medical Engineering, Undergraduate Academic asurement and Control Engineering, uate Academic Studies er, Electronic and Telecommunication		
7.	EIMNV	Measu	rements of	non-electrical quantities		(MR0) Me Undergrad (E10) Pow Engineerin	0) Measurement and Control Engineering, graduate Academic Studies) Power, Electronic and Telecommunication neering. Undergraduate Academic Studies		
8.	EIPDMS	Progra Syster	Imming of N ns	leasurement and Data Ac	quisition	(E10) Pow Engineerin	ower, Electronic and Telecommunication ering, Undergraduate Academic Studies		
9.	EIPMS1	Desigr measu	and develor arement sys	opment of industrial device tems 1	es and	(MR0) Me Undergrad (E10) Pow Engineerin	asurement and Control Engineering, uate Academic Studies er, Electronic and Telecommunication g. Undergraduate Academic Studies		
10.	EIPR1	Labora	atory practic	um		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
11.	EISMP	Senso	rs and trans	sducers		(MR0) Me Undergrad (E10) Pow Engineerin	asurement and Control Engineering, uate Academic Studies er, Electronic and Telecommunication g, Undergraduate Academic Studies		
12.	EIVI	Virtual	measurem	ent systems		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
13.	MR0UL R	Introdu	uction to lab	oratory practice		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
14.	DE103S	Measu	irement Sys	tems		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
15.	DE304S	Measu	rements in	Telecommunications		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
16.	DE404S	Intellig	ent Measur	ements		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
17.	SI018	lonizin	g and Non-	Ionizing Radiation and Pro	otection	(E00) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Professional Studies		

FACULTY O

UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



	ID	Course name		Study programme name, study type					
18.	BMIM5D	Magnetic-Resonance Devices in Bio	medicine	(BM0) Biomedic	al Engineering, Master Aca	demic Studies			
19.	EIDNU	Supervisory Control and Data Acqui	sition Systems	(MR0) Measure Academic Studie	ng, Master				
		Design		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies					
20.	EIORM	Measurement and Data Processing		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies					
21.	DE103	Measurement Systems (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies							
22.	DE304	.304 Measurements in Telecommunications (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies							
23.	DE404	Intelligent Measurements		(E10) Power, El Engineering, Do	ectronic and Telecommunic ctoral Academic Studies	ation			
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Sovilj P., Measure	Milovančev S., Vujičić V.: Digital Stor ment, IEEE Transactions on Instrume	chastic Measurement on tation and Measurem	of a Nonstationary ent, 2011, Vol. 60	y Signal With an Example of), No 9, pp. 3230-3232, ISSI	EEG Signal N 0018-9456			
2.	Santrač E Signal-to 9456	3., Sokola M., Mitrović Z., Župunski I., Noise Ratio, IEEE Transactions on Ir	Vujičić V.: A Novel M strumentation and Me	ethod for Stochas asurement, 2009	stic Measurement of Harmor , Vol. 58, No 10, pp. 3434-34	nics at Low 441, ISSN 0018-			
3.	Antić B., Instrume ISSN 133	Mitrović Z., Vujičić V.: Method for Hari nts with InternallyGenerated Referenc 35-8871	nonic Measurement o e Frequency, Measure	f Real Power Grid ement Science Re	d Signals with Frequency Dr eview, 2012, Vol. 12, No 6, p	ft using pp. 277-285,			
4.	J.J.Tomic No. 2, pp	ć, M.D.Kušljević, V.V.Vujičić: "A New F .772-780, April 2007.	Power System Digital I	Harmonic Analyze	er", IEEE Trans. on Power D	elivery, Vol. 22,			
5.	Radonjić	A., Vujičić V.: Integer Codes Correctir	ng Burst Errors Within	A Byte, IEEE Tra	nsactions on Computers, 20	11			
6.	Radonjić No 12-13	A., Vujičić V.: Integer SEC-DED Code , pp. 518-520, ISSN 0020-0190	es for Low Power Com	munications, Info	rmation Processing Letters,	2009, Vol. 110,			
7.	V.Vujičić: 50,No. 5,	"GENERALIZED LOW FREQUENCY pp.1089-1092, October 2001.	STOCHASTIC TRUE	ERMS INSTRUM	ENT", IEEE Trans.Instrum.I	Meas., Vol.			
8.	S. S. Milo A/D Conv	ovančev, V. V. Vujičić, V. A. Katić: "Im /erter", IEEE Trans. on Power Deliver	provements of On-Line y, Vol. 10, No. 4, pp. 1	e Measurement ir 750-1756, Octobe	Distribution System Using a er 1995.	a New Adding			
9.	I. Župuns No.2, pp.	ki, L. Holiček, V. Vujičić, S. Milovanče 408-411, Apr. 1997.	v: "POWER FACTOR	CALIBRATOR",	IEEE Trans. Instrum. Meas.	vol. IM-46,			
10.	V. Vujičić SYSTEM	, I. Župunski, S. Milovančev: "PREDE S, IEEE Trans. Instrum. Meas., vol. IN	TERMINATION OF TI /-46, No.2, pp. 439-44	HE QUANTIZATIO	ON ERROR IN DIGITAL ME	ASUREMENT			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	Quotation total : 9								
Total	Total of SCI(SSCI) list papers : 18								
Curre	Current projects : Domestic : 1 International : 0								





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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Nam	Name and last name:				Vukobratović	V. Dejan			
Acad	lemic 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:				01.11.2003				
Scier	ntific or art f	ield:	Maar	1	lelecommun	ications and	Signal Processing		
Acad	iemic caries	er	Year		Field				
Acad		lection:	2009	Faculty of Technical Scie	ences - Novi S	ad	Telecommunications and Signal Processing		
PhD			2008	University of Novi Sad -	NOVI Sad	1	Telecommunications and Signal Processing		
Magi	ster thesis		2005	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing		
Bach	elor's thesis	S 	2001	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	idy programme	es I			
	ID	Course	e name			Study pro	gramme name, study type		
1.	BM119B	Wirele	ss sensor r	etworks		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
2.	BMI102	Comm	unication S	ystems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
3.	EK200	Develo Proces	opment Too ssing 2	Is for Communications an	d Signal	(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies er Electronic and Telecommunication		
						Engineerin	g, Undergraduate Academic Studies		
4.	EK203	Modelling and Simulation of Communication			n Systems	(E10) Pow Engineerin	g, Undergraduate Academic Studies		
5.	EK321	IP technology				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
6.	ETI21	Communication Protocols				(E02) Elec Profession	ctronics and Telecommunications, Undergraduate al Studies		
7.	ETI23	Wireless Communications				(E02) Elect Profession	ctronics and Telecommunications, Undergraduate al Studies		
8.	ETI31	Video	Technology	,		(E02) Elect Profession	E02) Electronics and Telecommunications, Undergraduate Professional Studies		
9.	S1329P	Introdu	uction to Co	mmunication Networks		(S01) Pos Undergrad	501) Postal Traffic and Telecommunications, ndergraduate Academic Studies		
10.	DE414S	Moder	n Coding T	heory		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
11.	DE514S	Multim	edia Proce	ssing and Communication	S	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
12.	S0152	Next G	Generation ⁻	Felecommunication Netwo	orks	(S01) Pos Academic	tal Traffic and Telecommunications, Master Studies		
13.	SI015	Integra	ated Service	es Digital Network (ISDN)		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
14.	SI016	Advan	ced ISDN N	letworks		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
15.	SI027	Advan	ced IP Com	munications		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
16.	BMIM2D	Information theory in biosystems				(BM0) Bio	medical Engineering, Master Academic Studies		
17.	DE414	Mode	rn Coding T	heory		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
18.	DE514	Multim	edia Proce	ssing and Communication	S	(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.	Vukobrat Window I 10.1109/	ović D., Fountair TMM.20	Stanković Codes, IE 09.202608	/., Sejdinović D., Fagoone EE Transactions on Multir 7	ee-Stankovic L nedia, 2009, V	., Xiong Z.: ol. 11, No 6	Scalable Video Multicast Using Expanding , pp. 1094-1104, ISSN 1520-9210, UDK:		
2.	Stefanov ad-hoc n	ić Č., Vι etworks,	ukobratović , Ad Hoc Ne	D., Stanković V., Fantacc etworks, 2012, ISSN 1570	i R.: Packet-ce	entric approa	ach for distributed sparse-graph coding in wireless		

4	TAS STUD		UNIVERSITY OF NO	VI SAD		WHKHX H.				
AN A	NULL SIO	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSIT	EJA OBRADOVIĆA 6					
D.ZE		Study F	Programme A	ccreditatio	on	Cont Cont				
.0	LANTEN	MASTER ACADEMIC STUDIES			Biomedical Engineering	HON				
Re	Representative refferences (minimum 5, not more than 10)									
3.	 Stefanović Č., Vukobratović D., Chiti F., Niccolai L., Crnojević V., Fantacci R.: Urban Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes, IEEE Journal on Selected Areas in Communications, 2011, Vol. 29, No 1, pp. 94-102, ISSN 0733-8716, UDK: 10.1109/JSAC.2011.110110 									
4.	Vukobratović D., Stefanović Č., Chiti F., Crnojević V., Fantacci R.: Rateless Packet Approach for Data Gathering in Wireless Sensor Networks, IEEE Journal on Selected Areas in Communications, 2010, Vol. 28, No 7, pp. 1169-1179, ISSN 0733-8716, UDK: 10.1109/JSAC.2010.100921									
5.	Sejdinović D., Vukobratović D., Doufexi A., Šenk V., Piechocki R.: Expanding Window Fountain Codes for Unequal Error Protection, IEEE Transactions on Communications, 2009, Vol. 57, No 9, pp. 2510-2516, UDK: 10.1109/TCOMM.2009.09.070616									
6.	Vukobratov Communica	rić D., Šenk V.: Design and Evaluat ations, 2009, Vol. 57, No 8,, pp. 227	ion of Irregular LDPC 2-2279, ISSN 0090-67	Codes Using ACE 778, UDK: 10.110	E Spectrum, IEEE Transactio 9/TCOMM.2009.08.070548	ons on				
7.	Dejan Vuko Communica	bbratovic, Vojin Senk: "Generalized ations Letters, Vol.12, No.1, pp. 32-	ACE Constrained Prog 34, January 2008.	gressive-Edge-Gr	owth LDPC Code Design", I	EEE				
8.	Stefanović ad-hoc netv	Č., Vukobratović D., Stanković V., F works, Ad Hoc Networks, 2012, ISS	antacci R.: Packet-ce N 1570-8705	entric approach fo	r distributed sparse-graph co	oding in wireless				
9.	Vukobratov Transactior	rić D., Vladimir S.: Unequal Error P ns on Communications, 2012, Vol. 6	rotection Random Line 60, No 5, pp. 1243-125	ar Coding Strate	gies for Erasure Channels, II	EEE				
10.	Vukobratović D., Clavier L., Matthias W., Werner T., Andreas C., Kimmo K.: Adaptive Coding, Modulation and Signal Processing - in Pervasive Mobile and Ambient Wireless Communications, Heidelberg, Springer, 2012									
Su	mmary data fo	or teacher's scientific or art and profe	essional activity:							
Quot	tation total :		0							
Total of SCI(SSCI) list papers : 9										
Curr	ent projects :		Domestic :	0	International :	2				



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:					Zeljković V. Milan			
Academic title:					Full Professor			
Name of the institution where the teacher works full time and					Faculty of Technical Sciences - Novi Sad			
stanting date:					15.11.1977			
Academic carieer				Institution	Field			
Academic caneer fear			ICAI				Machina Tools, Elavible Technological Systems	
Academic title election:			2007	Faculty of Technical Sciences - Novi Sa		ad	and Automatization Processes Design	
PhD thesis			1996	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Magister thesis			1984	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Bachelor's thesis			1977	Faculty of Technical Scie	ences - Novi Sa	ad	Technological Processes, Techno-Economic Optimization and Virtual Design	
List of courses being held by the teacher in the accredited study programmes								
	ID	Course name				Study pro	gramme name, study type	
1.	P1402	CAD/CAE/CAM i CIM Systems				(P00) Production Engineering, Undergraduate Academic Studies		
2.	P1407	Machine Tools Designing				(P00) Production Engineering, Undergraduate Academic Studies		
						(P00) Production Engineering, Undergraduate Academic Studies		
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				(P00) Production Engineering, Undergraduate Academic Studies		
5.	P304	Processing and Technological Systems				(P00) Production Engineering, Undergraduate Academic Studies		
6.	P307	Automated Flexible Technologial Systems				(P00) Production Engineering, Undergraduate Academic Studies		
7.	ZR308A	Security and Safety Equipment for working				(Z01) Safety at Work, Undergraduate Academic Studies		
8.	ZR408A	Safety	at work on	the machines for process	ing	(Z01) Safety at Work, Undergraduate Academic Studies		
9.	P1405	Conter	mporary Ap	proach to Product Designi	ing	(PM0) Production Engineering, Master Academic Studies		
10.	PR408	Fundamentals on Protection for Operation on Proc Machines				(PM0) Production Engineering, Master Academic Studies		
11.	IM2118	Funda	mentals of	CAD / CAM technology		(I20) Engineering Management, Master Academic Studies		
12.	P307A	Flexible technological 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	The dynamics of micro machining systems				(PM0) Production Engineering, Master Academic Studies		
15.	PP2I12	Design of prosthetic devices				(BM0) Biomedical Engineering, Master Academic Studies		
16.	DP001	Design and Research Methods in Production			'n	(M00) Mechanical Engineering, Doctoral Academic Studies		
17.	DP003	State and Developing Trend in the Field of M Tools, FTS, and Automation of Designing Pr			Machine rocesses	(M00) Mechanical Engineering, Doctoral Academic Studies		
18.	DP010	Behaviour Modelling and Experimental Testin Working Systems			ting of	(M00) Mechanical Engineering, Doctoral Academic Studies		
19.	ZRD18A	Behaviour Modelling and Experimental Testin Working Systems			ting of	(Z01) Safety at Work, Doctoral Academic Studies		
20.	ZRD235	Systemic regulation in the field of occupation and health			nal safety	(Z01) Safety at Work, Doctoral Academic Studies		
21.	ZRD238	CD238 State and trends of development safety and health at work in the area mechanical engineering (Z01) Safety at Work, Doctoral Academic Studies						
Rep	presentative	reffere	nces (minim	num 5, not more than 10)				
1.	 Zeljkovic 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 							


UNIVERSITY OF NOVI SA	AD
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HAS STUDIORUM

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



Study Programme Accreditation

0.000	CANTE	MASTER ACADEMIC STUDIES			Biomedical Engineering				
Rep	presentative	refferences (minimum 5, not more th	ian 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., 2 manufactu	Zeljković M., Tepić J., Milošević M., L iring systems, Metalurgija, 2012, Vol	₋ukić D.: Techno-ecor . 51, No 3, ISSN 0543	omic method for -5846	evaluation and selection of f	lexible			
5.	Antić A., F vibrations,	etrović P., Zeljković M., Kosec B., H Materijali in tehnologije, 2012, Vol.	odolič J.: The influenc 46, No 3, pp. 279-285,	e of tool wear on ISSN 1580-2949	the chip-forming mechanism	n and tool			
6.	Milojević Z Journal of	, Vićević M., Zeljković M., Navalušić Manufacturing Engineering – AJME	ć S.: Methodology of t , 2012, Vol. 10, No 3, j	he bone tissue di op. 63-70, ISSN 1	agnostic images processing, 583-7904	Academic			
7.	Milojević Z environme	, Navalušić S., Zeljković M., Vićević nt, Academic Journal of Manufactur	5 M., Beju L.: Haptic ir ing Engineering – AJN	teraction progran IE, 2011, Vol. 9, N	n systems development as a No 2/2011, pp. 61-66, ISSN ⁻	part of virtual 1583-7904			
8.	Tabaković total hip ei 1583-7904	S., Živković A., Grujić J., Zeljković N ndoprosthesis, Academic Journal of I	M.: Using CAD/CAE so Manufacturing Engine	oftware systems i ering – AJME, 20	n the design process of mod 11, Vol. 9, No 2/2011, pp. 97	ular, revision ′-102, ISSN			
9.	Živković A Manufactu	., Zeljković M., Tabaković S.: Maten Iring Engineering – AJME, 2010, Vol	natical Model for the R . 8, No 3/2010, pp. 10	oller Bearing Life 8-115, ISSN 1583	Determination, Academic Jo 3-7904	ournal of			
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	mmary data f	or teacher's scientific or art and prof	essional activity:						
Quot	tation total :		22						
Tota	Total of SCI(SSCI) list papers : 6								
Curre	Current projects : Domestic : 1 International : 0								



RADOVIĆA 6



Study Programme Accreditation

Biomedical Engineering

Name and last name:			Zuković M. Miodrag						
Acad	lemic title:					Assistant Professor			
Name of the institution where the teacher works full time and				ull time and	Faculty of Technical Sciences - Novi Sad				
starting date:					01.12.1995				
Scier	ntific or art f	ield:				Mechanics			
Acad	lemic cariee	er	Year	Institution				Field	
Acad	lemic title e	lection:	2009	Faculty of Te	chnical Sci	ences - Novi S	ad	Mechanics	
PhD	thesis		2008	Faculty of Te	chnical Sci	ences - Novi S	ad	Mechanics	
Magi	ster thesis		2000	Faculty of Te	chnical Sci	ences - Novi S	ad	Mechanics	
Bach	elor's thesis	S	1994	Faculty of Te	chnical Sci	ences - Novi S	ad	Mechanics	
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	
1.	IAKI01	Select	ed Chapters	s in Kinematics	6		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
							(M20) Mee Undergrad	chanization and Construction Engineering, uate Academic Studies	
2	M103	Mecha	unics 1				(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
2.	WIGO	Weene					(M40) Teo Undergrad	hnical Mechanics and Technical Design, uate Academic Studies	
							(P00) Proo Studies	duction Engineering, Undergraduate Academic	
							(M20) Mee Undergrad	chanization and Construction Engineering, uate Academic Studies	
2	M107	Mechanics 2			(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies			
э.	IVI I U 7				(M40) Teo Undergrad	hnical Mechanics and Technical Design, uate Academic Studies			
							(P00) Proo Studies	duction Engineering, Undergraduate Academic	
							(M20) Mee Undergrad	chanization and Construction Engineering, uate Academic Studies	
4	M201	Mocha	unice 3				(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
4.	101201	Mecha					(M40) Teo Undergrad	hnical Mechanics and Technical Design, uate Academic Studies	
							(P00)Proo Studies	duction Engineering, Undergraduate Academic	
							(M20) Mee Undergrad	chanization and Construction Engineering, uate Academic Studies	
5.	M2411	Theory	Theory of Oscillation				(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
							(P00)Proo Studies	duction Engineering, Undergraduate Academic	
6.	M4301	Compu	uter Method	ls in Mechanics	s		(M40) Tec Undergrad	hnical Mechanics and Technical Design, uate Academic Studies	
							(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	Z108	Funda	mentals of	Mechanics			(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
							(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
0	DMI107	Rieme	chanica				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
ð.		DIOITIE					(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
9.	M44061	Optimi	zation of m	echanical syste	ems		(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		



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

Study Programme Accreditation

S THE REAL

MASTER ACADEMIC STUDIES

Biomedical Engineering

List of courses b	eina held bv th	e teacher in the	accredited study	programmes

LISU	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
10.	BMIM4A	Transport phenomena and Living sy	stems	(BM0) Biomedical Engineering, Master Academic Studies					
11.	M45021	Computer Methods in Mechanics 2		(M40) Technica Academic Studie	I Mechanics and Technical E es	Design, Master			
12.	DTM01	Computer Methods in kinematics an mechanical systems	d dynamics of	(M40) Technica	I Mechanics, Doctoral Acade	emic Studies			
Rep	presentative	e refferences (minimum 5, not more th	an 10)						
1.	Zukovic, Control, 2	M. and Cveticanin, L.: Chaotic Respo 2007, Vol. 13, No. 6, str. 751- 767, ISS	onses in a Stable Duffi SN 10775463.	ng System of Non	i-ideal Type, Journal of Vibra	ation and			
2.	Zukovic,N 1229–124	И., Cveticanin,L., Chaos in non-ideal r 46, 2009	mechanical system wit	h clearance, Jour	nal of Vibration and Control	, 15(8):			
3.	Miodrag 2 OZUBLJI	Zuković, TORZIONE PARAMETARSK ENJEM, Magistarska teza, Novi Sad, :	KE OSCILACIJE CILIN 2000.	IDRIČNOG ZUPČ	ASTOG PARA SA EVOLVE	NTNIM			
4.	Zuković, tehnologi	., NELINEARNE TORZIONE OSCIL je MMA 2000, Novi Sad, 08.juna 2000	ACIJE U ZUPČASTIM).	PRENOSNICIM	A, VII Međunarodna konferer	ncija fleksibilne			
5.	Zuković, skup o ko	M., Radomirović, D. Kuzmanović, S.: . onstruisanju, oblikovanju i dizajnu KOI	Analiza uticaja raspore D 2002, Novi Kneževa	eda zupčanika na c, Maj 2002, str. 1	dinamiku dvostepenog redu 41-144.	ktora, Drugi			
6.	Radomiro mašine, N	ović, D., Zuković. M., Gligorić, Radojka /ol.7, No.4, Novi Sad, Decembar, 200	a: Uticaj ubrzanja, nag 2, str.57-61.	iba i mase prikolio	ce na kretanje traktora, Trakt	tori i pogonske			
7.	Zuković, KONFER	M., Radomirović, D. Rakarić, Z.: Nelin ENCIJA FLEKSIBILNE TEHNOLOGI	earne oscilacije u mel JE, MMA 2003., Novi S	naničkim sistemin Sad, Srbija i Crna	na sa zazorom, VIII MEĐUNA Gora, 26-27. Jun 2003.	ARODNA			
8.	Radomiro radova, C	ović, D., Maretić, R., Zuković. M.,: UN Godina 27(2003), broj 1, strana 119-12	UTRAŠNJE KOORDIN 27	IATE RAVANSKI	H KRIVIH U MEHANICI, Let	opis naučnih			
9.	Radomirović, D., Gligorić, Radojka, Zuković. M.,: Kretanje traktora sa jednoosovinskom prikolicom, Traktori i pogonske mašine, Vol.8, No.4, Novi Sad, Novembar, 2003, str.124-129.								
10.	M. Zuković and Z. Rakarić : Steady state vibration of mechanical system with electric motor and nonlinear spring, Book of Abstracts, The First International Conference on COMPUTATION MECHANICS, Belgrade (CM'04), Serbia and Montenegro, November, 15-17, 2004., 31								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Tota	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 MASTER ACADEMIC STUDIES

Biomedical Engineering



Name and last name: Žigić M. Mid					Žigić M. Miod	drag		
Acad	lemic title:				Assistant Pro	ofessor		
Name of the institution where the teacher works full time and Faculty of				acher works full time and	Faculty of Tee	Technical Sciences - Novi Sad		
starti	ng date:				01.10.2007			
Scier	ntific or art f	ield:			Mechanics			
Acad	lemic cariee	er	Year	Institution			Field	
Acad	lemic title el	ection:	2012	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
Magi	ster thesis		2008	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
Bach	elor's thesis	S	2004	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanics	
List c	t courses b	eing hei	d by the tea	acher in the accredited stu	idy programme	S		
	ID	Course	e name			Study pro	gramme name, study type	
1.	GG15	Streng	th of Materi	als		(G00) Civi	I Engineering, Undergraduate Academic Studies	
2.	GG410	Selecte	ed Chapters	s in the Theory of Elasticit	у	(G00) Civil	Engineering, Undergraduate Academic Studies	
3.	H112	Mecha	nics 1 – Fu	ndamentals		(H00) Mec (S00) Traf Academic	chatronics, Undergraduate Academic Studies fic and Transport Engineering, Undergraduate Studies	
4.	H201	Mecha	nics 2 - Ge	neral		(H00) Mec	chatronics, Undergraduate Academic Studies	
5.	H202	Streng	th of materi	als		(H00) Mec	chatronics, Undergraduate Academic Studies	
6.	H303	Mecha	tronics 3 –	Further Chapters		(H00) Mec	chatronics, Undergraduate Academic Studies	
						(M20) Mea Undergrad	chanization and Construction Engineering, uate Academic Studies	
7	M204	Strong	th of Matori			(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
7.	M204	Streng	III OI WALEII	215		(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
						(P00) Production Engineering, Undergraduate Academic Studies		
8.	M4302	Biome	chanics and	d mechanics of sport		(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
9.	M4306	Similar	ity and dim	ensional methods		(M40) Tec Undergrad	nical Mechanics and Technical Design, uate Academic Studies	
10.	BMI128	Contin	uum Biome	chanics		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
11.	II1004	Mecha	nics and In	dustrial Engineering		(110) Indus Studies	strial Engineering, Undergraduate Academic	
12.	M44061	Optimi	zation of me	echanical systems		(M40) Teo Undergrad	nical Mechanics and Technical Design, uate Academic Studies	
13.	M4504	Therm	al Elasticity			(M40) Tec Academic	nnical Mechanics and Technical Design, Master Studies	
14.	BMIM4A	Transp	ort phenom	nena and Living systems		(BM0) Bio	medical Engineering, Master Academic Studies	
15.	M45991	Biome	chanics of c	cardiovascular system		(M40) Tec Academic	nnical Mechanics and Technical Design, Master Studies	
16.	SZD051	Applica enviror	ations of op nment prote	timal control theory in livir	ng	(Z00) Envi Studies	ironmental Engineering, Specialised Academic	
17.	DM801	Biome	dical mecha	anics		(M40) Tec	chnical Mechanics, Doctoral Academic Studies	
						(H00) Med	chatronics, Doctoral Academic Studies	
18		Theor	of impact			(M00) Med	chanical Engineering, Doctoral Academic Studies	
10.	DTIVIOZ	i neor y				(M40) Tec	hnical Mechanics, Doctoral Academic Studies	
						(S00) Traf	fic Engineering, Doctoral Academic Studies	
19.	DTM03	Biome	chanical mo	odels and analysis of impa	act	(M40) Tec	hnical Mechanics, Doctoral Academic Studies	
20.	ZRD16A	Selecte	ed chapters	in mechanics and elastic	ity theory	(Z01) Safe	ety at Work, Doctoral Academic Studies	
Rep	oresentative	reffere	nces (minim	num 5, not more than 10)				
1.	N. M. Gra with appli	ahovac, ications,	M. M. Zigic Vol. 59, Iss	: Modelling of the hamstrir sue 5 (2010), 1695-1700.	ng musle group	by use of f	ractional derivatives, Computers and Mathematics	



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

Study Programme Accreditation



PLANTEN		MASTER ACADEMIC STUDIES			Biomedical Engineering	HO				
Rep	Representative refferences (minimum 5, not more than 10)									
2.	2. N. Grahovac., M. Žigić, D. Spasić, On impact scripts with both fractional and dry friction type of dissipation, International Journal of Bifurcation and Chaos, Vol. 22, No 4 (2012), 1250076 (10 pages).									
3.	 N. M. Grahovac, M. M. Zigić, and D. T. Spasić: On multiple impacts with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 173- 180, UDK: 531/534(082), ISBN 978-86-909973-0-5. 									
4.	 M. M. Žigić, N. M. Grahovac and D. T. Spasić: A simplified earthquake dynamics of a column like structure with fractional type of dissipation, 1st International Congress of Serbian Society of Mechanics, Beograd: Serbian Society of Mechanics, 10-13 April, 2007, str. 165-172, UDK: 531/534(082), ISBN 978-86-909973-0-5. 									
5.	5. Grahovac N., Žigić M: Fractional derivative viscoelastic model of the hamstring muscle group, 3rd IFAC Workshop on Fractional Differentiation and its Applications, Ankara, Turkey: 05-07 november, 2008.									
6.	M. M. Zigic, Viscoelastic response of the human hamstring muscle during a ramp-and-hold type of experiment, 2nd International Congress of Serbian Society of Mechanics, Palic: Serbian Society of Mechanics, 01-05 June, 2009, str. 165-173, UDK: 531/534(082), ISBN 978-86-7892-173-5.									
7.	Grahovac N Fractional [N., Žigić M., Spasić D.: On impact s Differentiation and Its Applications, I	cripts with both fractio Badajoz, 18-20 Oktoba	nal and dry frictio ar, 2010	n type of dissipation, 4. IFA0	C Workshop on				
8.	Žigić M., G Internationa UDK: 531/5	rahovac N.: Dynamical behavior of al Congress of Serbian Society of M i34(082)	a polymer gel during i lechanics, Vlasinsko je	mpact. Fractional zero, 5-8 Jul, 201	derivative viscoelastic mode 1, pp. 871-878, ISBN 978-8	el, 3. 6-909973-3-6,				
9.	Bačlić B., Ž Applied Me	igić M., Phase spaces of rheonomic chanics, 1-3 June, 2005.	c energy-like conserva	tion laws, 25th Υι	igoslav Congress on Theore	etical and				
10.	 Kovinčić N., Žigić M., Grahovac N., Spasić D.: On Impact in Biomechanical Systems, International scientific conference on mechanics, 6. International Scientific Conference on Mechanics - Sixth Polyakhov's Reading, Saint Petersburg, 31-3 Januar, 2012, pp. 251-251, ISBN 978-5-91563-101-3 									
Sur	nmary data fo	r teacher's scientific or art and prof	essional activity:							
Quot	ation total :		5							
Tota	of SCI(SSCI)) list papers :	2							
Curre	Current projects : Domestic : 1 International : 0									



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:			Živanov D. Ljiljana						
Academic title:			Full Professor						
Name of the institution where the teacher works full time and			Faculty of Technical Sciences - Novi Sad						
starti	ng date:				15.03.1976				
Scier	ntific or art f	ield:			Electronics				
Acad	lemic caries	er	Year	Institution					
Acad	lemic title el	ection:	2000	Faculty of Technical Sci	ences - Novi Sa	ad			
PhD	thesis		1989	School of Electrical Eng	ineering - Beog	irad	Electronics		
Magi	ster thesis		1980	School of Electrical Eng	ineering - Beog	irad			
Bach	elor's these	S	1974	School of Electrical Eng	ineering - Beog	rad	Electrical and Computer 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 pro	gramme name, study type		
1.	E222A	Electro	onics			(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
2.	EM303	Microe	electronics			(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
						(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
						(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H110	Materi	als in Electr	ical Engineering		(MR0) Me Undergrad	asurement and Control Engineering, uate Academic Studies		
						(H00) Med	chatronics, Undergraduate Academic Studies		
4.	H311	Application of Sensors and Actuators				(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	BM117C	MEMS and NEMS				(BM0) Bio Studies	10) Biomedical Engineering, Undergraduate Academic dies		
						(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
6.	BMI107	Materi	als and fabi	rication technologies in me	edical devices	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
7.	BMI110	Senso	rs and actu	ators in medicine		(BM0) Bio Studies	Biomedical Engineering, Undergraduate Academic		
8.	DE101S	Conter materi	mporary mio als	croelectronic technologies	and	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
9.	DE502S	Micro-	sensors and	d MEMS		(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
10.	EM517	Modeli	ing and Sim	ulation of Semiconductor	Components	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
11.	SI014	Microe	electronic te	chnologies		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
12.	SI024	Applica	ation of Ser	nsors and Actuators		(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
13.	BMIM1D	Applica	ation of ME	MS and NEMS in biomed	icine	(BM0) Bio	medical Engineering, Master Academic Studies		
14.	EM519	Senso	rs, actuator	s, MEMS and NEMS		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
15.	DE101	Conter Materi	mporary Mie als	croelectronic Technologie	s and	(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
16.	DE502	Micro-	sensors and	d MEMS		(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	R. Ragha Varistor+	ivendra, Inductor	P. Bellew, Integrated	N. Mcloughlin, G. Stojano Passive Devices," IEEE B	ović, M. Damnja Electron Device	nović, V. De s Letters , v	esnica, Lj. Živanov, "Characterization of Novel /ol. 25, no. 12, pp. 778-780, 2004.		
2.	G.Stojano meander	ović, M. inducto	Damnjanov rs embedde	vić, V. Desnica, Lj. Živano ed in ferrite material," Jour	v, R. Raghaver mal of Magnetis	ndra, P. Bell sm and Mag	ew, N. Mcloughlin, "High performance zig-zag and netic Materials, vol. 297/2, pp. 76-83, 2006.		
3.	M.Damnj Microeleo	anović, ctronics	G. Stojanov Internationa	vić, Lj. Živanov, V. Desnica al, vol. 23, no. 3, pp. 42-48	a, "Comparison 3, September 2	of different	structures of ferrite EMI suppresors,"		

RS	TAS STUD		UNIVERSITY OF NO			HIMAKNX MAL				
NIN CHAN	R	FACULTY OF TECHNICAL SCI	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVICA 6							
12		Study F	Programme A	ccreditatio	on 🛛	Con Con				
MASTER ACADEMIC STUDIES Biomedical Engineering										
Re	Representative refferences (minimum 5, not more than 10)									
4.	 M.Damnjanović, G. Stojanović, V. Desnica, Lj. Živanov, R. Raghavendra, P. Bellew, N. Mcloughlin, "Analysis, design and characterization of ferrite EMI suppressors," IEEE Transactions on Magnetics (impact factor: 0.837), vol. 42, no. 2, pp. 270-277, 2006. 									
5.	G. Stojanov Journal of F	vić, Lj. Živanov, "Novel efficient met RF and Microwave Computer-Aided	hod for inductance cal Engineering, vol. 16,	culation of inductono. 5, pp. 463-469	ors with optimized layout," In 9, September 2006	ternational				
6.	V. Desnica, Lj. Živanov, O. Aleksić, "The modeling and design of symmetrical thick film EMI/EMC cells", Studies in Applied Electromagnetics and Mechanics: Electromagnetic Fields in Electrical Engineering, vol. 22, pp. 395-400, IOS Press, Amsterdam, 2002									
7.	V. Desnica IEEE Trans	, Lj. Živanov, M. Nimrihter, O. Aleks sactions on Instrumentation and Me	ić, M. Luković: "A Com asurement - IMTC Spe	parative Charactection contractection (Charactectic) parative contractection (Charactectic) parative contractectic) parative contractectic (Charactectic) parative contractectic) parative contractect	eristics of Thick Film Integra 1, No. 4, pp. 570-576,	ted LC Filters",				
8.	V. Desnica transformer 2000	, Lj. Živanov, O. Aleksić, S. Jenei: "I rs", COMPEL (Computation and Ma	Modeling and optimiza thematics in Electrical	tion of thick film s and Electronic Ei	olenoid-bar type inductors a ngineering), Vol. 19, No. 2, p	nd op. 615-621,				
9.	P.M.Nikolić, M.B.Pavlović, Z.Maričić, S.Djurić, Lj.Živanov, D.Samaras, G.A.Gledhill, "Low temperature far-infrared complete reflectivity spectra of single crystal Ba hexaferrite", Infrared Physics, vol. 33, No.5, Pergamon Press, G.B., pp.401-408, 1992									
10.	0. P.M.Nikolić, Lj.D.Živanov, O.S.Aleksić, D.Samaras, G.Gledhil, J.Collins: "Far infrared optical properties of single crystal Ba- and Sr- hexaferrite", Infrared Physics, Vol.30,									
Su	mmary data fo	or teacher's scientific or art and profe	essional activity:							
Quot	tation total :		48							
Tota	I of SCI(SSCI)) list papers :	12							
Current projects : Domestic : 1 International : 3										



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Biomedical Engineering

Name and last name:			Živanov B. Miloš						
Acad	lemic title:				Full Professor				
Nam	e of the inst	titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
Starti	ng uale.	iold:			01.04.1994				
Acad		ieiu.	Voor	Institution	Electronics		Field		
Acad	lemic title of	loction:	2004	Eaculty of Tochnical Sci	oncos Novi S	ad	Electronics		
PhD	thesis		1992	School of Electrical Engl	ineering - Reor	au arad	Electronics		
Magi	ster thesis		1978	School of Electrical Engl	ineering - Beog	arad	Electronics		
Bach	elor's thesis	s	1973	School of Electrical Engl	ineering - Beog	urad	Physics		
List	of courses b	eina he	ld by the tea	acher in the accredited stu	udv programme	es			
			,		<u> </u>				
	ID	Course	e name			Study pro	gramme name, study type		
1.	EM414	Optoel	lectronics			(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	EM301A	Analog	g Microelect	tronic Circuits		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
3.	EM430A	Contro	and proce	ess electronics		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
4.	EM444B	Applie	d electronic	S		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
5.	DE201S	Select	ed Chapter	s in Optoelectronics and F	Photonics	(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
6.	DE503S	Indust	rial Electron	nics		(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
7.	E1SO01	Modern technologies in electrical engineerir			ng	(E00) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Professional Studies		
8.	H1402	Digital Controlling Electronics				(H00) Med	chatronics, Master Academic Studies		
9.	SI013	Applie	d electronic	s in industry		(E00) Pow Engineerin	vower, Electronic and Telecommunication ering, Specialised Professional Studies		
10.	SI035	Electro	onic System	ns in Oil Industry		(E00) Pow Engineerin	Power, Electronic and Telecommunication eering, Specialised Professional Studies		
11.	BMIM1A	Applica	ations of las	sers in medicine		(BM0) Bio	medical Engineering, Master Academic Studies		
12.	DE117S	Select	ed chapters	s from optoelectronics sen	sors systems	(E11) Pow Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
13.	DE315S	Optoel	lectronics s	ensors systems-advanced	l course	(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
14.	DE418S	Desigr	n of comple	x optoelectronics systems	;	(E11) Pow Engineerin	er, Electronic and Telecommunication g, Specialised Academic Studies		
15.	EM435A	Electro	onic System	ns in Oil Industry		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
16.	EM437A	The ap	oplication of able energy	electronic systems in clea	an and	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
17.	EM439A	Electro	onics in veic	chles		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
18.	EM521	Applie	d optoelecti	ronics		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
19.	EM523	Applie	d electronic	s in industry		(E10) Pow Engineerin	er, Electronic and Telecommunication g, Master Academic Studies		
20.	DE201	Select	ed Chapter	s in Optoelectronics and F	Photonics	(E10) Pow Engineerin	er, Electronic and Telecommunication g, Doctoral Academic Studies		
21.	DE503	13 Industrial Electronics				(E10) Pow Engineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
22.	DE117	Select	ed chapters	s from optoelectronics sen	sors systems	(E10) Pow	ver, Electronic and Telecommunication		
Rer	presentative	e reffere	nces (minin	num 5. not more than 10)					



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

Study Programme Accreditation



3	LANTER	MASTER ACADEMIC STUDIES			Biomedical Engineering	HO					
Re	Representative refferences (minimum 5, not more than 10)										
1.	Šašić B.,Živanov M., Lazić M.: Desing of Multiphase Boost Converter for Hybrid Fuel Cell/Battery Power Sources, Beč, Jatin Nathwani and Artie Ng (Ed.),, 2010, str. 1-51, ISBN 978-953-307-401-6										
2.	Manojlović L., Živanov M.: White-Light Interferometric Sensor for Rough Surface Height Distribution Measurement, IEEE Sensors Journal, 2010, Vol. 10, No 6, pp. 1125-1132, ISSN 10.1109/JSEN.2007.90										
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Su	mmary data fo	or teacher's scientific or art and profe	essional activity:								
Quo	tation total :		32								
Tota	I of SCI(SSCI) list papers :	23								
Curr	urrent projects : Domestic : 2 International : 2										



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Biomedical 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. Teaching is done in classrooms and specialized computer laboratories or laboratories for measurement which are equipped with contemporary equipment where students experimentally confirm and deepen material from lectures and practices. Through the emphasis on the individual work, students are prepared for successful further education at the doctoral studies and successful scientific and professional work. The library, located in the building of the Faculty of Engineering, has more than x library units relevant to carrying out this program.



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

Study Programme Accreditation

Biomedical Engineering

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through selfevaluation and external quality control. At the Faculty of Technical Sciences there is a perennial positive practice of interviewing students through questionnaire.

The quality control of the study programme is performed through following activities:

(a) Interviewing students by questionnaire at the end of the lectures for the given course, (b) interviewing graduated students by questionnaire about study programme quality and logistic support to the studies at the diploma awarding ceremony, (c) interviewing students by questionnaire about evaluation of logistic support to the studies at the certification of the study year, (d) interviewing students by questionnaire when enrollingto the year of study.

Students assess study programme of the previously completed school year. For monitoring study programme Committee for Qualityqu is formed. The members of the Committee for Quality are the managers of the given study programme and the heads of the departments of the study programmes these courses belong to, or professors assigned by the heads of the departments.



Study Programme Accreditation

Biomedical Engineering



Standard 12. Distance Education

Distance learning is not provided in this study programme.