

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



Mechatronics

# STUDY PROGRAMME ACCREDITATION MATERIAL:

# MECHATRONICS

# MASTER ACADEMIC STUDIES

Novi Sad 2012. Prevod sa srpskog jezika:

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Fundamentals in Mechan	ical Vision
Non Industrial Robotics a Buildings	nd Automation in
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Motor Vehicle Equipment	
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Mechanisms in Mechatro	<u>nics</u>
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Preparation and Defence	of Master Thesis
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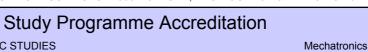


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Programme name	Mechatronics
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Interdisciplinary
Scientific, proffesional or art field	Mechatronics: Electrical and Computer Engineering; Mechanical Engineering
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60
Academic degree, abbreviation	Master in Mechatronics, M.Mechatron.
Study length	1
Programme implementation starting year	2009
Future course implementation starting year (for new programme)	
Number of students attending this programme	14
Planned number of students to be enrolled in this programme	32
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2008
Web address containing programme information	http://www.ftn.uns.ac.rs



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### Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Standard 00. Introduction

The study programme for the Graduate Academic Studies - Master in Mechatronics represents a continuation of the undergraduate academic study programme in Mechatronics at the Faculty of Technical Sciences, University of NovSad in organization of the Department of Industrial Engineering and Management, which is parent department for this study program. In addition to the parent department, lectures are performed also by teachers and staff from the following departments: Department of Power, Electronic and Telecommunication Engineering, Department of Computing and Control Engineering, Department of Mechanization and Design Engineering, Department of Technical Mechanics, Department of Fundamental Science, Department of Environment Engineering and Safaty at Work and Department of Production Engineering.

Traditional division into scientific and educational disciplines (e.g. Mechanical and Power Engineering) led to misunderstanding between engineers of various fields when working jointly in the same project, as well as to insufficient knowledge of various fields in realization of complex systems nowadays present in practical work. Engineers of different fields when discussing a problem do not "speak the same language". Each field recognizes dominantly only their aspects. Since power and mechanical systems become more and more numerous, complex and sophisticated, during their creation beside having knowledge of Mechanical and Power Engineering, it is also required to have knowledge of management and programming.

Therefore, in terms of education, Mechatronics should be considered as a study programme created to meet the real needs in practical work. This study programme will enable students to additionally acquire their knowledge based on understanding of fundamental physics principles in various fields of engineering, to acquire professional knowledge for realization of contemporary engineering systems, to acquire ability to integrate knowledge required for each individual case and to be introduced to scientific and research work.



Standard 01.

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MASTER ACADEMIC STUDIES

The name of this study programme of graduate academic studies – Master in Mechatronics. Academic name acquired is Master in Mechatronics. The outcome of the study process is knowledge which enables students to use professional literature, to solve professional problems and to continue studies if students choose to do so.

A candidate to be enrolled must have completed four years of undergraduate academic study, an appropriate direction, which are measured with at least 240 ECTS.

Application procedures, grading and registration of candidates, as defined in the Regulations of enrollment in approved study programs at the faculty level.

The study programme of graduate academic studies in Mechatronics last one year.

There are two study groups at the graduate academic studies in Mechatronics which last one year: Mechatronics. Robotics and Automation and Mechatronics in Mechanization. Students choose one of the tow groups in accordance with the previous education and professional aspirations. Lectures are realized if there are sufficient number of students. In case of insufficient number of students the lectures will not be organized or the Faculty management reaches a special decision on lectures organization (mentor work). The study group Mechatronics, Robotics and Automation puts stress on the application of mechatronics in robotics and automation (in companies, modern automation in residential environments, etc.) and the study group Mechatronics in Mechanization puts stress on the application of mechatronics in modern mechanization. There are mandatory and selective courses. The selective courses are chosen from the suggested list of courses. However, students are given the opportunity, with the consent of the Head of the Study programme, to choose any of the courses at the Faculty of Technical Sciences and University of Novi Sad and any other university in the country or abroad. All necessary requirements for attending those courses must be met.

Lectures are realized through lectures and practical classes. During education process emphasis is placed on independent and research student work, as well as on their personal involvement in the process. During lectures, modern didactic tools are used for presenting subject content and students are informed about research trends in the field. During practical classes, which follow the lectures, actual exercises and problems are solved and appropriate examples are presented. Also additional explanations of the subject content are offered in practical classes. Practical classes can be auditory, laboratory and computer. Partially practical classes can be realized in factories and other institutions.

The student gains a certain number of ECTS by passing each exam. Studies are considered complete when a student fulfills all obligations required in the study program and collect at least 60 ECTS (pass all the required courses, and defend the final work - master thesis).



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MASTER ACADEMIC STUDIES

Standard 02. Programme Objectives

The purpose of the study programme is set in accordance with the needs of the society. The study program of the

Master studies is set so that it enables students to acquire competences socially justifiable and purposeful. The Faculty of Technical Sciences has clearly defined educational assignments and objectives for highly competent experts in the field of technical engineering. The aim of the study programme – Mechanics is completely in accordance with the Faculty of Technical Sciences objectives.

Realization of such a study programme creates experts in the field of Mechatronics competent in European and global standards and in accordance with social needs.



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Mechatronics

Standard 03. Programme Goals

MASTER ACADEMIC STUDIES

The objective of the graduate academic studies in Mechatronics is acquiring competences and academic skills in the field of Mechatronics. In addition, this programme will provide graduates with practical skills, as well as form and develop competences necessary for critical thinking and team work and acquiring specific practical skills necessary for the profession.

The objective of the study programme of graduate academic studies in Mechatronics is to educate and form highly qualified experts able to perform tasks in production technologies and designing contemporary production process.

In addition, this programme will provide graduates with practical skills, as well as form and develop competences necessary for the technical sciences. The objective of this study programme is also education of experts in team working as well as development of abilities of presentation of results to professional public.



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### Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Standard 04. Graduates` Competencies

Having completed the graduate academic studies in Mechatronics, a student acquires general and subjectspecific abilities in the function of qualitative performance of professional, scientific and artistic activities. Having completed this study programme, a student acquires the following general abilities:

- Ability to analyse, generate and anticipate consequences,
- Ability of critical thinking,

- Ability to solve problems by applying scientific methods and procedures

Master student acquires thorough knowledge and understanding of all disciplines of the selected study group, as well as skills for solving actual problems with utilization of scientific methods and procedures. Students at the Mechatronics are capable to write and present in an appropriate way the results of their work. Utilization of information and communication technologies is insisted upon.

The students at this level have competencies for following and application of novelties in the line of profession, as well as for cooperation with local social and international environment.

The students are enabled to design, organize and manage production. During education process student is enabled to independently conduct experiments, for statistical data processing as well as to formulate and reach appropriate results.

Upon graduation, student acquires knowledge to economically use natural resources of the Republic of Serbia in accordance of principles of sustainable development.

Special attention is paid to skill development for team work and professional ethics.



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Mechatronics

Standard 05. Curriculum

MASTER ACADEMIC STUDIES

The curriculum of the study programme of Mechatronics is formulated so that it meets all set objectives. The structure of the study programme provides the choice of selective courses with at least 30% ECTS. Master students expand knowledge of production engineering in specific characteristics of problems which each study group deals with. Through selective courses satisfy their interests that they developed during the studies.

All subjects are one semester long and are awarded appropriate number of ECTS, and one credit equals approximately 30 hours of student activities.

The curriculum is defined description of subjects which contains title, subject type, academic year and semester, ECTS, professors name, subject objective with expected outcomes, knowledge and competences, prerequisites for attending the subject, subject content, recommended literature, teaching methods and knowledge evaluation.

The study programme is in accordance with European standards in terms of enrolment, study duration, preconditions for transferring to the following academic year, acquiring diploma and studying way.

The integral part of the curriculum of production engineering is professional practice and practical work in duration of 45 hours, realized in appropriate scientific and research institutions, in organizations for innovation activities. Student finishes the studies with elaboration of master thesis consisting of theory and methodological application of preparation necessary for understanding the field of master thesis.

Prior to defending the thesis, student passes theoretical and methodological fundamentals before a commission which is appointed for thesis defence. The final master grade is calculated on the bases of results of passed theoretical and methodological preparation and evaluation of elaboration and defence of the thesis. The thesis is defended before the commission which consists of at least 3 teachers among which at least one needs to be from another department of faculty.



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# Study Programme Accreditation



Mechatronics

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:	:								
Course	id:	H15SP			I	Professional Pra	actice		
Number	r of ECTS:	3							
Teache	rs:								
Course	status:		Mandatory	/					
Number	r 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	dition courses			None					
1. Educ	ational goal:								
scientifi	c and researcl	n. The obje	ective of pro	ofessional practi	ce is to a	mme Mechatronics is pr cquire direct and practica wledge in practice.			
2. Educ	ational outcom	es (acquire	ed knowled	ge):					
						ssional knowledge for so urther practice (profession		cal problems.	Acquired
3. Cours	se content/stru	cture:							
	hment in which					separately, in agreemen ce with demands of the			
4. Teac	hing methods:								
	al work, tutoria ional practice.		ting a profe	essional practice	e diary in	which students describe	e activities and jobs t	they perform	ed during
				Knowledge e	valuation	(maximum 100 points)			_
	Pre-examina	ition obligation	tions	Mandatory	Points	Final e	xam	Mandatory	Points
Project				Yes	-	Oral part of the exam		Yes	50.00
					Liter	ature	1		
Ord.	А	uthor			Title	9	Publishe	er	Year



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Mechatronics

MASTER ACADEMIC STUDIES

Table 5.2 Course specification
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Course:								
Course id:	 H1402			Digita	al Controlling E	lectronics		
Number of ECTS:	6							
Teacher:		Živanov	B. Miloš					
Course status:		Elective						
Number of active tea	ching classe	es (weekly	()					
Lectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:
3		1	2		0		0	
Precondition courses	•				•			
1. Educational goal:			-					
Acquiring practical keep				ling enlect	ronics; optoelectronics c	omponents, lasers,	optical fibers,	sensors,
2. Educational outcor	nes (acquir	ed knowle	dge):					
<ul> <li>Ability of designing a</li> <li>Ability of analysing a</li> <li>Ability of creating co</li> <li>Ability of creating a</li> <li>Ability of designing a</li> </ul>	complex me	chatronic: al electror	s systems for pra- nic systems with [	ctical realiz DSP	zation			
3. Course content/str	ucture:							
elelctric engines. Er	igine contr	ol (contin	uously, impusive	ely). Stabil	chatronics. Elelctric eng ity problems. Managem mples. Technical docur	ent Algorithms (an	aloguous and	
4. Teaching methods	:							
dictionary after a sho provided in the text. F	rt introducti Part of the c ending the l	on on the lass is dev knowledge	certain topic. This voted to adoption e in grammar. Stu	s is followe and exerc	e. Students read the texed by discussion on the texising of the new vocabular encouraged to community	opics related to the t ary using oral and w	ext and on co ritten exercise	nclusions s, as well
				evaluation	(maximum 100 points)			
Pre-examin	ation obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Project defence			Yes	50.00	Written part of the exam	- tasks and theory	Yes	20.00
			·		Theoretical part of the ex	am	Yes	30.00
		<u> </u>		Litera	ature		,	
Ord.	Author			Title		Publish	er	Year
1, Čedomir Mil	osavljević		snovi automatike	, ,		Elektronski fakulte	t u Nisu	2002
2, Stojić Milić			ontinualni sistemi		a		<u> </u>	1998
3, Stojić Milić			gitalni sistemi up	, ,	toorijo i zadaci	Akademska Misao	-	2004
4, Miloš Živano 5, S.Lj.Tešić, E		,ić 0:	ektronika, pojača snovi elektronike: pulsna i digitalna	komponei	nte, pojačavačka kola,	FTN Izdavaštvo, N Građevinska knjiga		2004 1997



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Mechatronics

MASTER ACADEMIC STUDIES

Course:									
Course	id:	H1420		Fi	undam	entals in Mecha	anical Vision		
Number	of ECTS:	4							
Teachei	rs:		Crnojević S.	Vladimir, Petr	ović S. VI	adimir			
Course	status:		Elective						
Number	of active teac	hing classe	s (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	2	2		0		0		0	
Precond	dition courses	-	-	None					
1. Educa	ational goal:								
Introduc	cing students to	o basic term	is in the field	l of mechanica	l vision; in	troduction to contempora	ry methods in mecha	nical vision.	
2. Educa	ational outcom	nes (acquire	d knowledge	e):					
image p		ility to inde	pendently re	ealize simple :		to understand fundamen of digital image processii			
3. Cours	se content/stru	icture:							
						ssing – Image improvem - Morphological image pr			rovement
4. Teacl	hing methods:								
Lectures	s; Computer p	ractical clas	ses; Consult	tations					
				Knowledge e	valuation	(maximum 100 points)			
	Pre-examina	ation obligat	ions	Mandatory	Points	Final ex	kam	Mandatory	Points
Project	defence			Yes	30.00	Theoretical part of the ex	am	Yes	70.00
					Litera	ature			
Ord.	A	uthor			Title		Publishe	er	Year
1,	Gonzalez, W	oods	Digita	al Image Proce	ssing		Prenice Hall		2000



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# JA OBRADOVICA 6



Study Programme Accreditation

Course:									
Course	id:	H1503	N	on Indus	strial R	obotics and Aut	tomation in B	uildings	
Number	of ECTS:	6							
Teache	rs:		Borovac A. E	Branislav, Osto	ojić M. Go	ordana			
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		0		0	
Precond	lition courses			None		•			
1. Educ	ational goal:								
						robotics (service robotics itional objective is to intro			
2. Educ	ational outcom	es (acquire	ed knowledge	e):					
The cou in this fi		s students	ability to unde	erstand proble	ms of nor	n-industrial robotics and a	utomation and to be a	able to take a	ctive part
3. Cours	se content/stru	cture:							
based r		n is a new	way for cont	rolling robots		on-industrial robotics are ructured environment su			
4. Teac	ning methods:								
requirer		ts can cho	ose whether	they will take	exam in r	d they are mandatory for non-industrial robotics or			
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Project				Yes	50.00	Written part of the exam	- tasks and theory	Yes	50.00
					Liter	ature		<u> </u>	
Ord.	A	uthor			Title		Publishe		Year
1,	George A. Be	ekey		omous robots mentation and		biological inspiration to	The MIT Press, ISB 02578-7	N 0-262-	2005
2,	Rodney A. Bi	rooks	Camb	prian Intelligen	ce – The	Early History of the New	A Bradford Book, TI Press		1999
3,	Ronald Arkin		Behav	vior-based Ro	botics		The MIT Press, ISB 01165-4	N 0-262-	1998
4,	Borovac, B.,	Ostojić, G.	Neind	lustrijska robo	tika i auto	matizacija - skripta	FTN		2012



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Mechatronics

MASTER ACADEMIC STUDIES

Course	:								
Course	id:	H505		Imp	olemer	ntation of autom	lated systems	5	
Numbe	r of ECTS:	5							
Teache	rs:		Stankovski	V. Stevan, Šeš	ślija D. Dra	agan, Dudić P. Slobodan,	Šormaz N. Dušan		
Course	status:		Elective						
Numbe	r of active teac	hing classe	es (weekly)						
	ectures:	Practical		Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	2	C	)	2	0 11	0		1	
Precon	dition courses			None					
1 Educ	ational goal:								
	jective of the	subject is	that the stu	dents acquire	necessar	y knowledge in designi	ng, operating and m	aintaining a	utomated
2. Educ	ational outcom	es (acquire	ed knowleda	e):					
			0	,	logianing	operating and maintainin	a automated avetoms		
The out	come or this si	ubject is the	enecessary	knowledge in d	uesigning,	operating and maintainin	g automated systems	5.	
3. Cour	se content/stru	icture:							
Introdu	ction to IAS. R	equiremen	ts specificat	tions. Requirer	nents ana	lysis. Criteria for selectir	ig equipment. Desigr	ning method	selection.
Project	models. Insta	llation/oper	ation. Maint	enance. Error	search.				
4. Teac	hing methods:								
Teachi	ng is conducte	ed through	lectures ar	nd exercises.	During the	e exercises the student	is required to do pr	actice-orient	ed tasks.
						I the final exam. The requ	irement for taking the	e final exam i	s that the
student	must success	rully comple	ete the proje	ct. The final ex					
	Des sussiins	tion obligation				(maximum 100 points)		Mandatan	Deinte
Project	Pre-examina defence	luon opiiga	lions	Mandatory Yes	Points	Final ex Written part of the exam		Mandatory Yes	Points 50.00
Tiojeot				165	00.00	Coloquium exam		No	20.00
					Litera			110	20.00
Ord.	Δ	uthor			Title		Publishe	er	Year
1,	Hess, S.		Fra	nple of Pneum			FESTO PNEUMAT		2000
2,	Lotter, B.			ufacturing Asse			FESTO PNEUMAT	-	1991
3,	Plagemann			Recipe book	. ,		FESTO PNEUMAT	-	2000
4,	Stevan Stank	kovski	rad i	ementacija aut održavanje sis rolerima)	omatizova stema sa p	nih sistema (Puštanje u rogramabilno logičkim	FTN, Novi Sad		2007
5,	Dragan Šešli	ja	Impl rad,	ementacija aut		nih sistema (puštanje u varova kod pneumatskih	FTN, Novi Sad		2012



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## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course	:								
Course	id:	H2403		Equi	pment	and IC Engine	s Mechatroni	CS	
Numbe	r of ECTS:	6							
Teache	er:		Klinar J. Iva	n					
Course	status:		Elective						
Numbe	r of active teac	hing classe	es (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3		1	2		0		0	
Precon	dition courses	-		None		-			
1. Educ	ational goal:								
	ng expended t individual mee					of functionality and elem quipment.	ent construction, de	vices and sys	tems, as
2. Educ	ational outcom	nes (acquir	ed knowledge	e):					
approa		ems in the	e field of func	tionality and e		kills to consider and solve onstruction, devices and			
3. Cour	se content/stru	icture:							
compar four-str Analysi engine engine	ison. Theoretic oke engines v is of engine in indicators. For s. Normal com	cal cycles. with suctio dicators: n sage engin bustion flo	Actual cycles n and with s niddle indicat ne indicators ow phases. F	analysis and s pecific feature ting pressure, : litar and spec forms of unnot	selection c es of two- indicating cific power rmal comb	cles. Theoretical engine of of calculation cycle param stroke engines. Process power, specific indicati r. Heat balance. Combu- pustion. Forming space f od other characteristics.	eters. Process of wo s of compression. P ng fuel consumption stion processes anal	rking matter or rocess of con n. Analysis of ysis in Otto a	hange of nbustion. effective nd diesel
	hing methods:		, ,		0,				
Oral pro	esentation in le	ectures acc	companied w practical cla	rith appropriate sses in testing	e images, tables for	diagrams and schemes r IC engines testing with	projected aided by P appropriate laborato	C computers. ry equipment.	Auditory
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	ation obliga	tions	Mandatory	Points	Final ex	xam	Mandatory	Points
	attendance			Yes		Oral part of the exam		Yes	50.00
Project	task			Yes	15.00				
Test Test				Yes	10.00 10.00				
Test				Yes	10.00				
				163	Litera	ature			
Ord.	Δ	uthor			Title		Publishe	er l	
1,	, Klinar Ivan			ma motora SU			Fakultet tehničkih r		Year
· · · ·			Opre		13			nauka	Year 1995



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Mechatronics

Study Programme Accreditation

Course	id:	H2405				IT in Biosyste	ms		
Number	of ECTS:	6				-			
Teache	rs:		Martinov L. N	lilan, Veselin	ov V. Brai	nislav			
Course	status:	E	Elective						
Number	of active teac	hing classes	(weekly)						
L	ectures:	Practical c	lasses:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	0		2		0		0	
Precond	dition courses		•	None					
1. Educ	ational goal:			-					
To acqu	iire knowledge	on sence ar	nd needs for	locationaly s	pecific ag	riculture.			
2. Educ	ational outcom	nes (acquired	d knowledge)	:					
Acquire	d knowledge c	on locationaly	y specific agr	iculture, proc	edures, n	nachines and equipment.			
3. Cours	se content/stru	icture:							
Subject	introduction i	ntroduction t	o subject se	hodulo and e	tudonte a	ssignments. Fundamental	principles of location	al coocific ac	ricultural
					iuueniis as	ssiutittietitis. Tuttuattietitai			
		recolodical.	economical	and ethical c	principles (			iai specific ag	ficultural
	ation of locatio	on specific re	sources and	needs. Proc	edures for	of precise agricultural pro-	duction.	iai specific ag	gricultural
Identific	ation of location ation of state a	on specific re and quality o	sources and f the land an	needs. Proc d other resou	edures foi irces.	of precise agricultural pro- r defining local resources	duction.		incultural
Identific Locating	ation of locatic ation of state a g processes of	on specific re and quality of resources a	sources and f the land an ind objects, (	needs. Proc d other resou GPS and DGI	edures foi irces. PS, satelli	of precise agricultural pro r defining local resources te system, precision.	duction.		gnoultural
Identific Locating GIS and	ation of location ation of state a processes of planning proc	on specific re and quality of resources a cedures for ir	sources and f the land an ind objects, ( mplementation	needs. Proc d other resou GPS and DGI on of precise	edures foi irces. PS, satelli agrucultu	of precise agricultural pro- r defining local resources	duction. and needs.		Jinculturur
Identific Locating GIS and Integral	ation of location ation of state a processes of planning proc	on specific re and quality of resources a cedures for ir	sources and f the land an ind objects, ( mplementation	needs. Proc d other resou GPS and DGI on of precise	edures foi irces. PS, satelli agrucultu	of precise agricultural pro- r defining local resources te system, precision. ral production.	duction. and needs.		
Identific Locating GIS and Integral 4. Teacl	ation of location ation of state a processes of planning proc principles of p	on specific re and quality o resources a cedures for ir recise agricu	sources and f the land an ind objects, ( mplementation ultural produce	needs. Proc d other resou GPS and DGI on of precise	edures foi irces. PS, satelli agrucultu	of precise agricultural pro- r defining local resources te system, precision. ral production.	duction. and needs.		
Identific Locating GIS and Integral 4. Teacl	ation of locatic ation of state a processes of planning proc principles of p hing methods:	on specific re and quality o resources a cedures for ir recise agricu	sources and f the land an ind objects, ( mplementation ultural produce	needs. Proc d other resou GPS and DGI on of precise ction. Web si	edures for irces. PS, satelli agrucultur ites in the	of precise agricultural pro- r defining local resources te system, precision. ral production. field of Precision Farming	duction. and needs.		
Identific Locating GIS and Integral 4. Teacl	ation of locatic ation of state a g processes of d planning proo principles of p hing methods: / classes, Pow	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou GPS and DG on of precise ction. Web si	edures for irces. PS, satelli agrucultur ites in the	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points)	duction. and needs.		
Identific Locating GIS and Integral 4. Teach Auditory	ation of locatic ation of state a processes of planning proc principles of p hing methods:	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory	edures for irces. PS, satelli agrucultur ites in the evaluation Points	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex	duction. and needs.	Mandatory	Points
Identific Locating GIS and Integral 4. Teach Auditory	ation of locatic ation of state a g processes of d planning proo principles of p hing methods: v classes, Pow Pre-examina	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou GPS and DG on of precise ction. Web si	edures for irces. PS, satelli agrucultur ites in the evaluation Points	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points)	duction. and needs.		
Identific Locating GIS and Integral 4. Teach Auditory	ation of locatic ation of state a g processes of d planning proo principles of p hing methods: / classes, Pow Pre-examina e attendance	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou SPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex	duction. and needs.	Mandatory	Points
Identific Locating GIS and Integral 4. Teacl Auditory Exercise Lecture	ation of locatic ation of state a g processes of d planning proo principles of p hing methods: / classes, Pow Pre-examina e attendance	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00 5.00 40.00	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex	duction. and needs.	Mandatory	Points
Identific Locating GIS and Integral 4. Teacl Auditory Exercise Lecture	ation of locatic ation of state a g processes of d planning proc principles of p hing methods: / classes, Pow Pre-examina e attendance attendance	on specific re and quality of resources a cedures for in recise agricu er Point Pres	esources and f the land an ind objects, ( mplementatio ultural products sentation	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00 5.00 40.00	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex Oral part of the exam	duction. and needs.	Mandatory Yes	Points
Identific Locating GIS and Integral 4. Teacl Auditory Exercise Lecture Project	ation of locatic ation of state a g processes of d planning proc principles of p hing methods: / classes, Pow Pre-examina e attendance attendance	on specific re and quality of resources a cedures for in recise agricu rer Point Pres	esources and f the land an and objects, ( mplementation ultural produce sentation	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00 5.00 40.00 Liter Title	of precise agricultural pro- r defining local resources of te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex Oral part of the exam ature	duction. and needs.	Mandatory Yes	Points 50.00
Identific Locating GIS and Integral 4. Teacl Auditory Exercise Lecture Project	ation of locatic ation of state a g processes of d planning proc principles of p hing methods: v classes, Pow Pre-examina e attendance attendance	on specific re and quality of resources a cedures for in recise agricu rer Point Pres	esources and f the land an and objects, ( mplementation ultural produce sentation	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes Yes Yes Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00 5.00 40.00 Liter Title	of precise agricultural pro- r defining local resources of te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex Oral part of the exam ature	Auction. and needs.	Mandatory Yes er EG r, Stuttgart	Points 50.00 Year
Identific Locating GIS and Integral 4. Teacl Auditory Exercise Lecture Project Ord. 1,	ation of locatic ation of state a g processes of d planning proc principles of p hing methods: v classes, Pow Pre-examina e attendance attendance Anonim	on specific re and quality of resources a cedures for in recise agricu- er Point Present ation obligation	esources and f the land an ind objects, ( mplementation sentation ons	needs. Proc d other resou GPS and DGI on of precise ction. Web si Knowledge e Mandatory Yes Yes Yes Yes	edures for irces. PS, satelli agrucultur ites in the evaluation Points 5.00 5.00 40.00 Liter Title ral Engine	of precise agricultural pro- defining local resources te system, precision. ral production. field of Precision Farming (maximum 100 points) Final ex Oral part of the exam	Auction. and needs.	Mandatory Yes er EG r, Stuttgart	Points 50.00 Year 2007



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

# Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course	:									
Course	id:	H2501	Motor Vehicle Equipment							
Numbe	r of ECTS:	4								
Teacher: Zuber F. Ninoslav										
Course	status:		Elective							
Number of active teaching classes (weekly)										
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:	
	2	1		1		0		0		
Precon	dition courses		-	None						
1. Educ	ational goal:			-						
Acquirir	ng knowledge o	on motor ve	hicle equipn	nent, excluding	g their driv	ing aggregate – engine.				
2. Educ	ational outcom	es (acquire	ed knowledge	e):						
	sciplinary engi nics, necessar					icle equipment, especial y.	ly in the field of moc	lern car elec	trics and	
3. Cour	se content/stru	cture:								
Equipm Equipm	ent of normaliz	zation of m d audio sig	icro climate	in the cabin. V	ehicle ele	ent for reduction of noise ctric system. Equipment ent devices. Airbags. Sys	for assuring good visi	bility from th	e vehicle.	
4. Teac	hing methods:									
Teachir	ng forms: Lectu	ires, practio	al classes, f	airs and comp	anies visit	s, consultations.				
				Knowledge e	evaluation	(maximum 100 points)				
	Pre-examina	ition obligat	tions	Mandatory	Points	Final ex	kam	Mandatory	Points	
	e attendance			Yes		Oral part of the exam		Yes	70.00	
	attendance			Yes	5.00					
Test Test				Yes	10.00					
Test				Yes	I	oturo				
Ord		uthor				ature	Duklisha		Veer	
Ord. 1,	A Časnji F.	uthor	Opre	ma motornih v	Title ozila (skri		Publishe Fakultet tehničkih na		Year 2006	
2,	Časnji F., Kli	nar I., Muzi	karvić			probilskoj tehnici	Sad DDOR "Novi Sad"-N	lovi Sad	2001	
<i>′</i>	V.					,				



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

## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course:												
Course id	:	H2504		Tran	sporta	tion and Manipu	ulation Syster	ns				
Number o	f ECTS:	5										
Teacher:			Vladić M.	Jovan								
Course sta	atus:		Elective									
Number of active teaching classes (weekly)												
Lec	tures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:			
	2	(	)	2		0		0				
Preconditi	on courses			None		•						
1. Educati	ional goal:											
Acquiring	knowledge f	or designir	ig transport	processes, mat	terial flow,	transport machines, and	logistics.					
2. Educati	ional outcom	es (acquire	ed knowled	ge):								
The acqui	red knowled	ge can be	used in pra	ctical work for m	naking des	signs, optimal selection ar	nd exploitation of trans	sportation sy	stems.			
3. Course	content/stru	cture:										
Driving sy interupted	stems. Mate transport. B	erial flow ar Building ma	nd transport chine for la	t systems. Trans ind works. Mach	sport machines for st	following modules: hines of continuous and a tone fractioning and class logistics. Warehouses ar	ificaton. Machines fo					
4. Teachir	ng methods:					-						
Lectures.	Calculation			l laboratory prac and oral examina		ses. Consultations. The fi	nal mark is formed o	n the basis o	f score of			
				Knowledge e	valuation	(maximum 100 points)						
I	Pre-examina	ition obliga	tions	Mandatory	Points	Final e>	am	Mandatory	Points			
	attendance			Yes		Oral part of the exam		Yes	70.00			
Lecture at				Yes	5.00							
Term pap	er			Yes	20.00							
						ature						
Ord.		uthor			Title		Publishe	er	Year			
1, \	/ladić J.		Tra	nsportno manipi	ulacioni si	stemi, skripta	FTN, Novi Sad	Transportno manipulacioni sistemi, skripta FTN, Novi Sad 2006				



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

# Study Programme Accreditation



Mechatronics

	:									
Course	id:	H570	Mechanisms in Mechatronics							
Numbe	r of ECTS:	5								
Teacher: Čavić M. Maja										
Course status: Elective										
Number of active teaching classes (weekly)										
L	ectures:	Practical clas	ses: Other tead	hing types:	Study resea	rch work:	Other cla	sses:		
	2	2		1	0		0			
Precon	dition courses	-								
1. Educ	ational goal:									
Introduc	ction to specific	c mechanisms,	improvement of skill	s of dynamic	analysis and mechanisms	s synthesis.				
2. Educ	cational outcom	nes (acquired k	nowledge):							
			s in practical proble is methods in pract		as perfoming dynamic ar is.	nalysis of mechanis	ms in real co	onditions		
3. Cour	se content/stru	icture:								
Mechar mass a Flywhe analytic	nisms with inte and moment of el sizing . Gen	Transmissions with variable gear ratio. Harmonic drive. Planetary-differential gears. Freewheel mechanism. Cam mechanisms. Mechanisms with intermittent motion. Clutch and brake mechanisms. Universal joint. Fundamentals of spatial mechanisms. Reduced mass and moment of inertia. Reduced power and torque. Equations of mechanism motion . Speed ??control of mechanical systems. Flywheel sizing . General conditions of mechanism efficiency . Mechanism synthesis for the prescribed kinematic task. Graphical and analytical synthesis methods of mechanisms for motion generation , path generation and mechanisms for function generation.Mechanism								
	hing methods:		task. Cam mechanis	sms synthesi						
4 Teac	ining moundab.		task. Cam mechanis	sms synthesi						
	orms: lectures,	,	mputer practical clas	,	s.					
	orms: lectures,	,	mputer practical clas	sses, consult	s.					
		,	mputer practical clas	sses, consult e evaluation	s. ations.	am	Mandatory			
Class fo		graphic and co	mputer practical clas	sses, consult e evaluation y Points	s. ations. (maximum 100 points)		-	Points		
Class fo Comput Lecture	Pre-examina ter exercise att attendance	graphic and co	mputer practical clas Knowledg	e evaluation y Points 5.00 5.00	s. ations. (maximum 100 points) Final ex		Mandatory	Points		
Class fo Comput Lecture Present	Pre-examina ter exercise att attendance tation	graphic and co	mputer practical class Knowledg Mandator Yes Yes Yes Yes	e evaluation y Points 5.00 5.00 10.00	s. ations. (maximum 100 points) Final ex		Mandatory	Points		
Class fo Comput Lecture	Pre-examina ter exercise att attendance tation	graphic and co	mputer practical class Knowledg Mandator Yes Yes	sses, consult e evaluation y Points 5.00 5.00 10.00 30.00	s. ations. (maximum 100 points) Final ex Written part of the exam -		Mandatory	Points		
Class fo Comput Lecture Present Project	Pre-examina ter exercise att attendance tation	graphic and co ation obligations tendance	mputer practical class Knowledg Mandator Yes Yes Yes Yes	sses, consult e evaluation y Points 5.00 5.00 10.00 30.00 Litera	s. ations. (maximum 100 points) Final ex Written part of the exam -	tasks and theory	Mandatory Yes	Points 50.00		
Class fo Comput Lecture Present Project Ord.	Pre-examina ter exercise att attendance tation	graphic and co ation obligations tendance	mputer practical class Knowledg Mandato Yes Yes Yes Yes	sses, consult e evaluation y Points 5.00 5.00 10.00 30.00 Litera Title	s. ations. (maximum 100 points) Final ex Written part of the exam -	tasks and theory Publishe	Mandatory Yes	Points 50.00 Year		
Class fo Comput Lecture Present Project	Pre-examina ter exercise att attendance tation	graphic and co ation obligations tendance	mputer practical class Knowledg Mandator Yes Yes Yes Yes	sses, consult e evaluation y Points 5.00 5.00 10.00 30.00 Litera Title	s. ations. (maximum 100 points) Final ex Written part of the exam -	tasks and theory Publishe Univerzitet u Novon FTN, Novi Sad	Mandatory Yes er n Sadu,	Points 50.00		
Class fo Comput Lecture Present Project Ord.	Pre-examina ter exercise att attendance tation A Zlokolica M, M	graphic and co ation obligations tendance	mputer practical class Knowledg Mandato Yes Yes Yes Yes	e evaluation y Points 5.00 5.00 10.00 30.00 Litera Title	s. ations. (maximum 100 points) Final ex Written part of the exam -	tasks and theory Publishe Univerzitet u Novon	Mandatory Yes er n Sadu,	Points 50.00 Year		



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

## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

	:									
Course	id:	M2535	Logistic Processes Management							
Numbe	er of ECTS:	5								
Teacher: Georgijević S. Milosav										
Course status: Elective										
Numbe	er of active tead	hing classe	s (weekly)							
L	_ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other clas	sses:	
	2	0		2		0		0		
Precon	dition courses	-				•				
1. Educ	cational goal:			-						
Objecti	ve is to expand	l general sy	stematic kno	wledge for ma	anaging m	aterial flow from row mate	erials to recycling nec	essary for de	signing.	
2. Educ	cational outcom	nes (acquire	d knowledge	):						
<ol> <li>Educational outcomes (acquired knowledge):</li> <li>Students should acquire knowledge and first experience how to relate the idea of construction or product with consideration of material flow and process management which include planning of the whole logistic chain from the design and production to distribution and recycling.</li> </ol>										
recycllf	ng.									
3. Cour	rse content/stru									
3. Cour Forms compar realizat analysis	rse content/stru of manageme ny. Project def tion, planning s, supply chair	nt in logisti ining, produ and manag is, VDI sugg	ict life cycle, ging logistic gestions for lo	concepts of p systems in a ogistic proces	roject and company ses mana	of local management, s d resource management, y, planning and managin gement. Supply Chain Ma s. Examples of companies	monitoring and contr g global goods and anagement, logistic c	rol – managin material flow	g projec ∕, SWO⊺	
3. Cour Forms compar realizat analysi Dinge.	rse content/stru of manageme ny. Project def tion, planning s, supply chair	ent in logisti ining, produ and manag is, VDI sugg d tools for sy	ict life cycle, ging logistic gestions for lo	concepts of p systems in a ogistic proces	roject and company ses mana	d resource management, y, planning and managin gement. Supply Chain Ma	monitoring and contr g global goods and anagement, logistic c	rol – managin material flow	g projec /, SWO1	
3. Cour Forms compar realizat analysis Dinge. 4. Teac	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods:	ent in logisti ining, produ and manag is, VDI sugg d tools for sy	ict life cycle, ging logistic gestions for lo ystem evalua	concepts of p systems in a ogistic proces tion, role of s	roject and company ses mana imulations	d resource management, y, planning and managin gement. Supply Chain Ma	monitoring and contri g global goods and anagement, logistic c s worldwide.	rol – managin material flow	g projec ∕, SWO⊺	
3. Cour Forms compar realizat analysis Dinge. 4. Teac	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods:	ent in logisti ining, produ and manag is, VDI sugg d tools for sy	ict life cycle, ging logistic gestions for lo ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le	roject and company ses mana imulations ctures and	d resource management, y, planning and managin gement. Supply Chain Ma s. Examples of companies	monitoring and contri g global goods and anagement, logistic c s worldwide.	rol – managin material flow	g projec ∕, SWO⊺	
3. Cour Forms compar realizat analysis Dinge. 4. Teac	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods:	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le	roject and company ses mana imulations ctures and	d resource management, y, planning and managin gement. Supply Chain Ma s. Examples of companies d oral and written part of t	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	rol – managin material flow	g projec /, SWO <sup>-</sup> ernet de	
3. Cour Forms compair realizat analysis Dinge. 4. Teac Active p	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le	roject and company ses mana imulations ctures and evaluation Points	d resource management, y, planning and managin gement. Supply Chain Ma s. Examples of companies d oral and written part of t (maximum 100 points)	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	rol – managin material flow controlling, Inte	g projec /, SWO <sup>-</sup> ernet de Points	
3. Cour Forms compar realizat analysis Dinge. 4. Teac Active p	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory	roject and company ses mana imulations ctures and evaluation Points	d resource management, y, planning and managin gement. Supply Chain Mis s. Examples of companies d oral and written part of t (maximum 100 points) Final ex	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	ol – managin material flow controlling, Inte Mandatory	g projec , SWOT ernet de Points	
3. Cour Forms compar realizat analysis Dinge 4. Teac Active p Exercis Lecture	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina se attendance a attendance	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes	roject and company ses mana imulations ctures and evaluation Points 5.00	d resource management, y, planning and managin gement. Supply Chain Mis s. Examples of companies d oral and written part of t (maximum 100 points) Final ex	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	ol – managin material flow controlling, Inte Mandatory	g projec /, SWO1 ernet de Points	
3. Cour Forms compar realizat analysis Dinge. 4. Teac Active p Exercis Lecture Presen	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina se attendance attendance tation	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes Yes	roject and company ses mana imulations ctures and evaluation Points 5.00 5.00	d resource management, y, planning and managin gement. Supply Chain Mis s. Examples of companies d oral and written part of t (maximum 100 points) Final ex	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	ol – managin material flow controlling, Inte Mandatory	g projec /, SWO1 ernet de Points	
3. Cour Forms compar realizat analysis Dinge. 4. Teac Active p Exercis Lecture Presen	rse content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina se attendance attendance tation	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes Yes Yes	roject and company ses mana imulations ctures and evaluation Points 5.00 5.00 10.00 50.00	d resource management, y, planning and managin gement. Supply Chain Mis s. Examples of companies d oral and written part of t (maximum 100 points) Final ex	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	ol – managin material flow controlling, Inte Mandatory	g projec /, SWO1 ernet de Points	
3. Cour Forms compar realizat analysis Dinge. 4. Teac Active p Exercis Lecture Presen	se content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina se attendance attendance tation	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K	ict life cycle, ging logistic gestions for k ystem evalua	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes Yes Yes	roject and company ses mana imulations ctures and evaluation Points 5.00 5.00 10.00 50.00	d resource management, y, planning and managin igement. Supply Chain Miss. Examples of companies d oral and written part of t (maximum 100 points) Final ex Theoretical part of the ex ature	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination.	rol – managin material flow controlling, Inte Mandatory Yes	g projec /, SWO1 ernet de Points	
3. Cour Forms compar realizat analysis Dinge 4. Teac Active p Exercis Lecture Presen Project	se content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina se attendance attendance tation	ant in logisti ining, produ and manag is, VDI sugg d tools for sy students. K ation obligat	ict life cycle, ging logistic gestions for lo ystem evalua nowledge tes ions	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes Yes Yes	roject and company ses mana imulations ctures and valuation Points 5.00 5.00 10.00 50.00 Liter Title	d resource management, y, planning and managin igement. Supply Chain Miss. Examples of companies d oral and written part of t (maximum 100 points) Final ex Theoretical part of the ex ature	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination. kam	rol – managin material flow controlling, Inte Mandatory Yes	g projec , SWO1 ernet der Points 30.00	
3. Cour Forms compar realizat analysis Dinge. 4. Teac Active p Exercis Lecture Presen Project Ord.	se content/stru of manageme ny. Project def tion, planning s, supply chair Availability and ching methods: participation of Pre-examina e attendance attendance tation	ent in logisti ining, produ and manag is, VDI sugg d tools for sy students. K ation obligat	ict life cycle, ging logistic gestions for lo ystem evalua nowledge tes ions	concepts of p systems in a ogistic proces tion, role of s sting during le Knowledge e Mandatory Yes Yes Yes Yes Yes	roject and company ses mana imulations ctures and evaluation Points 5.00 5.00 10.00 50.00 Liter Title h sistema	d resource management, y, planning and managin igement. Supply Chain Miss. Examples of companies d oral and written part of t (maximum 100 points) Final ex Theoretical part of the ex ature	monitoring and contr g global goods and anagement, logistic c s worldwide. he examination. cam am Publishe	rol – managin material flow controlling, Inte Mandatory Yes Yes	g projec i, SWO1 ernet de Points 30.00 Year	



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

### Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course id:       HSIR01         Number of ECTS:       7    Study-Research Work on the Master Thesis Theoretical Framework							
Teachers:							
Course status: Mandatory							
Number of active teaching classes (weekly)							
Lectures: Practical classes: Other teaching types: Study research work: Other classes:							
0 0 0 10 0							
Precondition courses None							
1. Educational goal:							
The 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 stude 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 abit to apply the acquired knowledge in the engineering practice.							
2. Educational outcomes (acquired knowledge):							
Students are able to independently apply the previously acquired knowledge in the fields that they had previously studied, and understa the structure of the chosen problem. Students conduct a systematic analysis of the problem and draw conclusion about the possible solutions. By the independent use of professional literature, students widen their knowledge in the chosen field and study different methods and scientific papers related to the topic. In that way, students develop the ability to do analysis and identify problems within the given topic. The practical application of the acquired knowledge in different fields enables the student to develop the ability to understate the position and role of an engineer in the chosen field, and the necessity of cooperation with other professionals and team work.							
3. Course content/structure:							
The course structure is formed individually according to the needs of a specific master thesis, its complexity and structure. The student studies professional literature, graduation and master thesis of students who have previously done work on a similar topic, does analys in order to find solutions to a specific problem defined by the thesis. A part of the course is done through individual study-research work The study involves the active study of the primary literature and discoveries on the topic, the organization and realization of experiment numerical simulation, statistical processing of data, writing and/or presenting a scientific essay at a conference in the specific scientific field of the master thesis.							
4. Teaching methods:							
The mentor of the master thesis defines and writes the task for the thesis and hands it to the student. The student is oblidged to write the thesis within the given topic which is defined by the master thesis task by using professional literature suggested by the mentor. While working on the thesis, the mentor can give additional instructions to the student, direct them to specific literature and advise him in order to enhance the quality of the master thesis. Within the study-research work, the student consults with the mentor, and, if necessary, with other professors teaching the subjects related to the master thesis topic. Within the given topic, the student conducts measurements, research, counting, surveys, statistical processing of data, if defined by the task of the master thesis.							
Knowledge evaluation (maximum 100 points)							
Pre-examination obligations Mandatory Points Final exam Mandatory Points							
Term paper         Yes         50.00         Oral part of the exam         Yes         50							
Ord. Author Title Publisher Ye							
1, grupa autora     časopisi sa Kobson liste     sve       2, grupa autora     časopisi, diplomski i master radovi     sve							



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

# Study Programme Accreditation



Mechatronics

5.2 Course specifica	tion

Course:							
Course id: HMAST1		Preparation and Defence of Master Thesis					
Number of ECTS: 10							
Teachers:							
Course status:		Mandato	ry				
Number of active teac	hing classe	es (weekly	()				
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:		
0	(	)	0	0	9		
Precondition courses	-		None				
1. Educational goal:							
activities conducted w which require the des preparation and defen present it in a suitable 2. Educational outcom Students are able to knowledge in other ar students gain awarer experience which they public and answering	vithin the gi acciption of acc of mast form to a v nes (acquire develop a eas for the ness of the v can use in the question	ven topic the proble er thesis I wider audi ed knowle systemat purpose complex practice ns and co	of the master thesis. By writin em, the methods and procedu has the goal of developing the ience as well as respond to co dge): ic approach to the given prob of finding a solution to the give ity of the problem in their pro when solving the problems in to omments of the thesis committed	n of writing a research report after comple g a master thesis students gain the exper res in conducting research and the obtain students` ability to prepare the results of t mments and questions related to the thesis lem, conduct analysis, apply the acquire en problem. By working independently on ofessional field. By working on the master heir professional field. In preparation for d ee, the student attains the necessary prac	rience of writing papers ned results. In addition, heir individual form and is topic. ed knowledge and gain solving the given tasks, er thesis students gain lefending their results in		
		vidual or (	collective work before an audie	nce.			
The content is define supervisor the studer	3. Course content/structure: The content is defined individually, in accordance with the needs and field to be covered by the master thesis. In consultation with the supervisor the student produces the master thesis in written form according to the rules of the Faculty of Technical Sciences. After preparation the student defends the thesis in public as arranged with the thesis supervisor and in accordance with the prescribed rules and procedures.						
4. Teaching methods:							
During the preparation of the master thesis the student consults with the thesis supervisor, and, if necessary, other professors who we in the area covered by the master thesis. The students writes the paper and, having obtained the approval of the thesis committed provides them with bound copies of the work. The master thesis is defended in public, and the student is obliged to answer the question and comments after the oral presentation.							
		Knowledge evaluation (maximum 100 points)					

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



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# Study Programme Accreditation



Mechatronics

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:									
Course id:	H828	Advanced robotics							
Number of ECTS	: 5								
Teachers:		Borovac A	A. Branislav, Her	akovič S.	Niko, Kozak V. Dražen, S	tankovski V. Stevan			
Course status:		Elective							
Number of active	teaching classe	es (weekly)							
Lectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:	
2	C	)	2		0		0		
Precondition cour	rses		None		•	•			
1. Educational go	oal:								
and its dynamic t	behaviour, as w	ell as cont	trol synthesis (or	n the basi	This includes modelling s of force feedback, visu complex robotic systems	al information, mor c	ognitive syst	em). The	
2. Educational ou	tcomes (acquire	ed knowled	lge):						
Students will be a robot in concrete					evant dynamic effects ar	id, on the basis of re	quired behav	vior of the	
3. Course conten	t/structure:								
	nment), artificia	al vision as	s basic sensor i	nformation	um of activity, problems a n anout robot situadness esis.				
4. Teaching meth	ods:								
The course is hel	d through lectur ited practical iss	ues with m			explained theorethical fun dents. Students will be for				
			Knowledge e	evaluation	(maximum 100 points)				
	mination obligation	tions	Mandatory	Points	Final ex	-	Mandatory	Points	
Project task			Yes	30.00	Theoretical part of the ex	am	Yes	70.00	
				Liter	ature				
Ord.	Author			Title		Publishe	er	Year	
	B., Khatib O. (B		ringer handbook	of robotic	S	Springer-Verlag		2008	
2, Spong N Vidyasa	/l., Hutchinson S gar M.,	<sup>.,</sup> Rol	bot Modeling an	d Control		John Wiley & Sons		2006	
3, R. Dorf,	R. Bishop		dern Control Sys	stems		Pearson Education Hall		2011	
4, G. Frank Emami-r	klin, J. D. Powel naeini	I, A. Fee	edback Control o	of Dynami	c Systems	Pearson Education Hall	- Prentice	2010	
5, G. Brads	ski, A. Kaehler	Lea	arning OpenCV			O'Reilly Media, Inc.		2008	



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Study Programme Accreditation

Course:	:									
Course	id:	H845	Motion control							
Number	r of ECTS:	4								
Teache	rs:		Stankovski \	/. Stevan, Ost	tojić M. Go	ordana, Ivandić I. Željko, <del>I</del>	Durić M. Nikola			
Course	status:		Elective							
Number	Number of active teaching classes (weekly)									
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:	
	2	0	)	2		0		0		
Precond	dition courses	•				•				
1. Educ	ational goal:									
The aim	n of the course	is to maste	er the knowled	lge necessar	v for the d	esign and implementation	of systems for motion	on control.		
							, 			
2. Educ	ational outcom	nes (acquire	ed knowledge	):						
	nes of the sub ims used in m					linear motion control ar	nd include sensors,	actuators an	d control	
3. Cours	se content/stru	icture:								
point to motion	point, increme systems with	ental chang DC motors	les). Linear n . Linear moti	notion system on systems w	is with ser /ith AC mo	I motor control systems ( vo pneumatics. Linear m otors. Linear motion syst Other significant industr	otion systems with s ems with servo mote	ervo hidraulio	s. Linear	
4. Teac	hing methods:									
Knowle		carried out				e exercises the student n, while before that studen				
				Knowledge e	evaluation	(maximum 100 points)				
	Pre-examina	ation obligat	ions	Mandatory	Points	Final ex	kam	Mandatory	Points	
Exercise	e attendance			Yes		Written part of the exam	<ul> <li>tasks and theory</li> </ul>	Yes	70.00	
	attendance			Yes		Coloquium exam		No	20.00	
Test				Yes		Coloquium exam		No	20.00	
Test				Yes	10.00					
	· ·					ature				
Ord.	A Tan K. K., T.	uthor		ion motion or	Title	sign and implementation,	Publish	er	Year	
1,	Huang	11. LUE ANU	2nd e		Det		London, Springer		2008	
	Robert H. Bis	shon						2002		
2,	Robert H. Di	зпор	~	Sensors and Actuators in Mechatronics, Design and Applications Taylor & Francis						
2, 3,	Andrzej Paw	·			tors in Me	chatronics, Design and	Taylor & Francis		2007	



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

# Study Programme Accreditation



Mechatronics

Table 5.2	Course s	specification

MASTER ACADEMIC STUDIES

Course:	_									
Course id:	1907		Automated Asse	mbly Systems for High Ac	curacy					
Number of ECTS:	5									
Teachers:			Lazarević M. Milovan, Ostojić M. Gordana, Jovanović M. Vukica, Budak M. Igor, Herakovič S. Niko, Maksimović M. Rado, Vukelić B. Đorđe							
Course status:		Elective								
Number of active teac	hing classe	es (weekly	)		-					
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:					
2	2 0		2	0	0					
Precondition courses			None							

#### 1. Educational goal:

The goal of course is to master the basic knowledge of the technologies and systems for automated merging of parts and components increased accuracy to the results obtained, assembled and functionally correct product. From subject content engineer acquires competence to apply this knowledge in the design procedure and system for automated assembly and use of modern technology in the subject area.

#### 2. Educational outcomes (acquired knowledge):

After completing the course and passing the exam, the student is qualified to perform product structuring, notice necessary assembly procedures and define the optimal sequence of their execution. Then able to accomplish the design and production process for mechanized system for manual, robotic and automated assembly operations, and a reconciliation of the individual elements in a complex system.

#### 3. Course content/structure:

Introduction to the Theory of assembly systems. Basic concepts and defiicije. Mounting position in the overall production process. The entities that affect the assembly process. The influence of structure on the assembly process. DFA methodology for assessing the suitability of the product for assembly. Outlining products. Analysis of the characteristics of products and production program. Selection of variants of the assembly process. Determination of the number and sequence of the intervention - the network diagram. The level of specialization. Determination of the time and cost of operations. Making technological tickets for each operation. Design of technological systems for manually mechanized, automated and robotic assembly. The choice of standard elements. Non-standard design elements for assembly. Design of complex technological systems for assembly. Selection of material handling and storage. Shaping the spatial structure of the system for assembly. Principles and methods of application of sensor and actuator in assembly systems. Management activities by installing a programmable logic controller. Visualization and monitoring through HMI (Human Machine Interface) displays. Video surveillance assembly process. Protocols and interfaces in the application of industrial networks for the exchange of information on the state of the process.

#### 4. Teaching methods:

Teaching of subject involves oral presentation of lectures with slides on a video monitor supported by appropriate practices for the corresponding field theory. The function of teaching the exercises provided the table and use written materials, as well as computer exercises geared toward the introduction of specialized software tools in the subject area and work in a lab with equipment provided by the curriculum.

Knowledge evaluation (maximum 100 points)										
	Pre-examination obligations		Mandatory	Points	Final e	Mandatory	Points			
Exercis	e attendance		Yes	5.00	Coloquium exam		No	20.00		
Lecture	attendance		Yes	5.00	Coloquium exam		No	20.00		
Term pa	aper		Yes	20.00	Theoretical part of the ex	am	Yes	70.00		
				Liter	ature					
Ord.	Author			Title	9	Publisher		Year		
1,	Stankovski, S., Rakić Skoković, M., Šešlija, D., Ostojić, G.	Primei sistem		ologije u a	automatizovanim	Centar za automatiz mehatroniku	zaciju i	2009		
2,	Ćosić I., Z. Anišić, Lazarević M.	Tehno	logije montaž	te		FTN Novi Sad		2012		
3,	Ćosić I., Z. Anišić, Lazarević M.	Monta	žni sistemi –	priručnik :	za vežbe	FTN Novi Sad		2011		
4,	Sekulić Sava	Tehno	loške struktu	re procesa	a rada	FTN Novi Sad		1986		
5,	Delchambre, A.	Comp	uter-Aided As	sembly P	lanning	Springer		1992		



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# Study Programme Accreditation



Mechatronics

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:					_		_				
Course id: H301			System Modeling and Symulation								
Number of E	Number of ECTS: 5										
Teachers:		-	Frdelian M	Aleksandar Iv	andić LŽ	eljko, Kozak V. Dražen					
	16.		Elective	,		o.jo,o_ua_o_					
Course status: Elective Number of active teaching classes (weekly)											
				Otherteeti		Chudu reas	anahanlu	Otherale			
Lectu		Practical		Other teachi	ng types:	Study resea		Other cla	sses:		
2		2		0		0		0			
Precondition	n courses			None							
1. Education	nal goal:										
Considering probabilistic and underst	g main dra modelling anding of f	wbacks of g of the sys the specific	these criter stem behavio cities in mode	ia which do n our and adequ elling electric s	ot reflect ate proba sources, tr	erministically based and the stochastic nature of abilistic methods and tech ansfer and distribution sy roblems of planning a po	the system. Survey nniques developed. I stems. Encouraging	of the main a Developing kr	areas for nowledge		
		•	ed knowledge				-				
understand reliability stu technology a power syste	the different udies. They and the wo em reliabilit	ences betw / will be ab orking proce y studies, f	ween analyti le to estimate esses in the to write techr	c and simulat e adequate po sense of overa nical reports ar	ion mode wer syste all reliabilit nd use sof	systems in order to incre lling methods. They will m reliability parameters. T y and feasibility. They wil tware for the analysis of a	develop simple pow hey will know to devel be able to use the s alternative configuration	er system me elop the powe pecialized soft ions to find the	odels for er system ftware for e optimal		
· · ·			tilize the acq	uired knowled	ge in solvi	ng all problems concernir	ng the power system	reliability stuc	lies.		
3. Course co	ontent/stru	cture:									
Introduction to deterministic criteria for the application in power systems. Main reliability development concept for power systems. Main performances of the power system reliability indicators. Markov modelling. Analytical methods for the production reliability estimation and electric power transfer. Monte Carlo methods. Simulation methods for the production reliability estimation and electric power transfer. Stochastic modelling for hydro-power plants and wind mills parks. Reliability parameters for the power system equipment. Market-oriented											
performances of the transfer and distribution system indicators working on the competitive market of electric power.											
4. Teaching	es of the tr	or hydro-po	arlo method	s. Simulation and wind mills	methods parks. Rel	for the production reliabliable in the production reliable in the parameters for the para	lity estimation and e power system equip	liability estimation	ation and transfer.		
4. Teaching Lectures. Co the contemp	es of the transmethods: omputing poorary tools	or hydro-po ansfer and practice. To s with char	Carlo method ower plants a distribution utorials. Hon acteristic exa	ls. Simulation and wind mills system indicat nework. Lectur amples contrib	methods parks. Rel ors workin res are pe uting to th	for the production reliabliable in the production reliable in the parameters for the para	lity estimation and e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part	liability estima lectric power oment. Market art is perform . In practice th	ation and transfer. t-oriented		
4. Teaching Lectures. Co the contemp	es of the transmethods: omputing poorary tools	or hydro-po ansfer and practice. To s with char	Carlo method ower plants a distribution utorials. Hon acteristic exa	Is. Simulation and wind mills system indicat nework. Lectur amples contrib ced, and adeq	methods parks. Rel ors workin res are pe uting to th uate tasks	for the production reliability parameters for the g on the competitive mar erformed in a combined market explanations of the the	lity estimation and e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part	liability estima lectric power oment. Market art is perform . In practice th	ation and transfer. t-oriented		
4. Teaching Lectures. Co the contemp the lectures,	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with char	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicat nework. Lectur amples contrib ced, and adeq	methods parks. Rel ors workin res are pe uting to th uate tasks	for the production reliability parameters for the g on the competitive mar erformed in a combined me explanations of the the s are done to elaborate the the state of the the state of the state the state of the state the state of the st	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p pretical lecturing part e content presented	liability estima lectric power oment. Market art is perform . In practice th	ation and transfer. t-oriented		
4. Teaching Lectures. Co the contemp the lectures,	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicat nework. Lectur amples contrib ced, and adeq Knowledge e	methods parks. Rel ors workin res are pe uting to th uate tasks evaluation Points 5.00	for the production reliability parameters for the go the competitive mare of the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final explored the comparison of the the sare done to elaborate the comparison of the the sare done to elaborate the comparison of the the sare done to elaborate the sare done to elaborate the comparison of the sare done to elaborate the sare done to elabo	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p pretical lecturing part e content presented	liability estima electric power oment. Market art is perform . In practice th in lectures.	ation and transfer. -oriented ned using nat follow		
4. Teaching Lectures. Co the contemp the lectures.	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicat hework. Lecture amples contrib ced, and adeq Knowledge e Mandatory	methods parks. Rel pors workin res are pe uting to th uate tasks evaluation Points 5.00 5.00	for the production reliability parameters for the go on the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final explorations of the the sare done to elaborate the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final explored the same coloquium exam	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p pretical lecturing part e content presented	liability estima lectric power oment. Market . In practice th in lectures. Mandatory	ation and transfer. -oriented ned using nat follow Points		
4. Teaching Lectures. Co the contemp the lectures, Pro- Homework Homework Homework	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicat mework. Lecture amples contrib ced, and adeq Knowledge e Mandatory Yes	methods parks. Rel pors workin res are peuting to th uate tasks evaluation Points 5.00 5.00 5.00	for the production reliability parameters for the go on the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final excloquium exam Coloquium exam Oral part of the exam	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part e content presented kam	liability estima lectric power ment. Market art is perform . In practice th in lectures. Mandatory No	ation and transfer. -oriented ned using nat follow Points 20.00 20.00		
4. Teaching Lectures. Co the contemp the lectures, Pro- Homework Homework Homework Homework	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicate mework. Lecture amples contrib ced, and adeq Knowledge e Mandatory Yes Yes Yes Yes	methods parks. Rel ors workin res are pe uting to th uate tasks evaluation Points 5.00 5.00 5.00 5.00	for the production reliability parameters for the go on the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final explorations of the the sare done to elaborate the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final explored the same coloquium exam	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part e content presented kam	liability estima lectric power ment. Market art is perform . In practice th in lectures. Mandatory No No	ation and transfer. -oriented ned using nat follow Points 20.00		
4. Teaching Lectures. Co the contemp the lectures, Pro- Homework Homework Homework	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicat mework. Lectur amples contrib ced, and adeq Knowledge e Mandatory Yes Yes Yes	methods parks. Rel pors workin res are peuting to th uate tasks evaluation Points 5.00 5.00 5.00	for the production reliability parameters for the go on the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final excloquium exam Coloquium exam Oral part of the exam	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p pretical lecturing part e content presented kam	liability estima lectric power ment. Market art is perform . In practice th in lectures. Mandatory No No Yes	ation and transfer. -oriented ned using nat follow Points 20.00 20.00 30.00		
4. Teaching Lectures. Co the contemp the lectures, Pro- Homework Homework Homework Homework Test	es of the transformethods: omputing porary tools , a speciali	or hydro-po ansfer and practice. To s with chan ized softwa	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu	Is. Simulation and wind mills system indicate mework. Lecture amples contrib ced, and adeq Knowledge e Mandatory Yes Yes Yes Yes	methods parks. Rel pors workin res are pe uting to th uate tasks evaluation Points 5.00 5.00 5.00 5.00 0.00 0.00	for the production reliability parameters for the go on the competitive mare explanations of the the sare done to elaborate the (maximum 100 points) Final excloquium exam Coloquium exam Oral part of the exam	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part e content presented kam	liability estima lectric power ment. Market art is perform . In practice th in lectures. Mandatory No No Yes Yes	ation and transfer. -oriented ned using nat follow Points 20.00 20.00 30.00		
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4. Teaching Lectures. Co the contemp the lectures, Homework Homework Homework Test Ord. A.	es of the tri methods: omputing p porary tools , a speciali e-examina e-examina A Erdeljan, D	or hydro-po ansfer and practice. The s with chara- ized softwa tion obligation tion obligation uthor D. Čapko	Carlo method ower plants a distribution s utorials. Hon acteristic exa are is introdu tions	Is. Simulation and wind mills system indicat mework. Lectur amples contrib ced, and adeq Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Yes yes	methods parks. Rel ors workin res are pe uting to th uate tasks evaluation Points 5.00 5.00 5.00 5.00 10.00 Liter Title koji pokriv	for the production reliability parameters for the go on the competitive mare explanations of the these are done to elaborate the (maximum 100 points) Final explanation exam Coloquium exam Oral part of the exam Practical part of the exam ature ature by a predavanja i vežbe	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part e content presented kam	liability estima lectric power ment. Market art is perform . In practice th in lectures. Mandatory No No Yes Yes	ation and transfer. -oriented ned using nat follow Points 20.00 20.00 30.00 40.00		
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4. Teaching 4. Teaching Lectures. Co the contemp the lectures, Pro- Homework Homework Homework Homework Homework Test Ord. 1, A. 2, Lat Per 3, Du Litt	es of the tr methods: omputing p porary tools , a speciali e-examina e-examina e-examina A Erdeljan, D tinka Čalas tkovska ane Hanse lefield	or hydro-po ansfer and practice. The s with chara- ized softwa tion obligation tion obligation uthor D. Čapko	Carlo methoc ower plants a distribution s utorials. Hon acteristic exa are is introdu- tions	Is. Simulation and wind mills system indicat mework. Lecture amples contrib ced, and adeq Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Ares Ares Jes Jes Jes Jes	methods parks. Rel pors workin res are peuting to the uate tasks evaluation Points 5.00 5.00 5.00 10.00 Liter Title koji pokriv moduli Co	for the production reliability parameters for the go on the competitive mare explanations of the these are done to elaborate the (maximum 100 points) Final explanation exam Coloquium exam Oral part of the exam Practical part of the exam ature ature by a predavanja i vežbe	lity estimation and e e power system equip ket of electric power. nanner. Theoretical p poretical lecturing part e content presented kam n - tasks Publishe	liability estima electric power ment. Market art is perform . In practice th in lectures. Mandatory No No Yes Yes er ad	ation and transfer. -oriented ned using nat follow Points 20.00 20.00 30.00 40.00 Year 2005		



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

## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course:	,										
Course id:	IM2124		Production and Service Systems								
Number of ECTS	5	×									
Teachers:		Čuš Franc	Ćuš Franci, Ćosić P. Ilija, Herakovič S. Niko, Lalić P. Bojan, Lazarević M. Milovan								
Course status: Elective											
Number of active teaching classes (weekly)											
Lectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:			
2	2	2	1		0		0				
Precondition cour	ses		None								
1. Educational go	al:										
production proces acquire foundation	sses that take p ons for designir	lace within thin this energy system	em. Students stems. During	s master to classes,	gning product systems, d ools for designing the sys students acquire knowle I macro locations.	tem structure and th	e working pro	cess and			
2. Educational ou	tcomes (acquire	ed knowledge	e):								
product as an es system functioning	sential objective	e of the produ ures, practice	uction system	, as well a al work, si	m, to recognize and und as to learn basic determir tudents obtain knowledg energy and information.	ations related to the	e energy supp	ort to the			
3. Course conten	t/structure:										
programme. Work formation. Gener system structure formation. Deterr demands. Design Outsourcing funct and competence Simulation of pro Practical classes:	king process an ral model of ma . Process appr nining the system ning energy stru- tions or process s, managing the oduction system Discussions with	d system car aterial flows. oach in stru em elements uctures. Loca es to anothe e working p ns. th practical e	pacity. Formin Balancing flo cture formatio Modelling th ation of produ r location or ir rocesses. Or xamples of pr	g material ows in a s on. Objec e spatial s inction syst n another p ganization oduction s	lopment conditions of pro- flows. Individual approact ystem. Forming flows in t approach in structure f system structures. Model tems. Determining the sy production system. Condi- nal readiness for accepti- systems from developed on . Interactive work and acc	h in flow formation. ( service systems. F formation. Basic fou lling the energy flow ystem location in na tions for outsourcing ing contemporary te countries and the reg	Group approac orming the pr indations for s. Determinin rrow and wide , dividing resp echnological s ion countries.	ch in flow roduction structure g energy er sense. ponsibility solutions. Analysis			
	s with slides fro		rojection. Usa	ige of tabl	es and handouts for prac	ctice, work in a labor	atory and visi	its to real			
contemporary bu	siness systems		Kasuladaa		(maximum 100 mainta)						
Dro. ovo	mination obligat	liono	<u> </u>	i	(maximum 100 points)	·	Mandatan	Deinte			
Pre-exa Exercise attendar	mination obligat	10115	Mandatory	Points 5 00	Final ex Written part of the exam		Mandatory Yes	Points 30.00			
Lecture attendan			Yes Yes	5.00	whiten part of the exam-	- lasks and liteory	165	30.00			
Project			Yes	50.00							
Test			Yes	10.00							
				Liter	ature						
Ord.	Author	1		Title	9	Publish	er	Year			
1, Zelenovi		PRO	JEKTOVANIE	PROIZVO	DNIH SISTEMA	Naučna knjiga		2009			
	ć, D., Ćosić, I.,	PRO			DDNIH SISTEMA-	FTN Novi Sad		2003			
Zelenovi	ć, D., Ćosić, I., ović, R., Maksim	Priruč		ovanje pro	pizvodnih sistema -	FTN Novi Sad		2003			



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

Mechatronics

Study Programme Accreditation

Auditor         Auditor         Zuber F. Ninoslav         Course status:       Elective         Number of active teaching classes: (weekly)         Lectures:       Practical classes:       Other teaching types:       Study research work:       Other classes:         2       0       0       0         Practical classes:       Other teaching types:       Study research work:       Other classes:         2       0 <th co<="" th=""><th>Course:</th><th></th><th></th><th colspan="8"></th></th>	<th>Course:</th> <th></th> <th></th> <th colspan="8"></th>	Course:												
Teacher:       Zuber F. Ninoslav         Course status:       Elective         Number of active teaching classes:       Other teaching types:       Study research work:       Other classes:         2       0       2       0       0         Precondition courses       None       0       0         1. Educational goal:       Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.       2. Educational outcomes (acquired knowledge):         Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive machine maintenance techniques.       3. Course content/structure:         Signal analysis, description in time, amplitude and frequency: Deterministic and random processes: Correlation analysis; Fordiral ranspis; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; Modal analysis, Oscillation forms, Measurement denoman of excitation and response; Types and characteristics of excitation; Modal parameter determination; Modification structure; Technical diagnostics and maintenance. Transmission function; Time constant; Microphones; Eurdamande; Designing and brow yother analysis; Couling and living environment; Regulations that define methodology of testing and bystems for oniose measurement in working and living environment; Regulations that define methodology of testing and bystems for noise measurement in working and living environment; Regulations that define methodology of testing and border anoise levels.	Course	id:	M2540		Vibrodiagnostics									
Course status:       Elective         Number of active teaching classes:       Weekly)         Lectures:       Practical classes:       Other teaching types:       Study research work:       Other classes:         2       0       2       0       0         Precondition courses       None       0       0         1. Educational goal:       Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.       2. Educational outcomes (acquired knowledge):         Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive machine maintenance techniques.       3. Course content/structure:         Signal analysis, description in time, amplitude and frequency: Deterministic and random processes: Correlation analysis; Fourier transformation; Spectral analysis, RTXA (Real Time Vibration Analysis), System analysis, System excitation and response; Transmission function, Digital signal and error processing. Measurement chain for vibration measuring: Measurement methods and characteristics of vibration and response; Types and characteristics of excitation; Modal parameter determination; Modification structure;         Signal analysis, dation and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphon	Number	of ECTS:	4											
Number of active teaching classes (weekly)           Lectures:         Practical classes:         Other teaching types:         Study research work:         Other classes:           2         0         2         0         0           Precondition courses         None         Image: Classes:         Operation of the classes:         Operation classes:         Opera	Teacher	:		Zuber F. N	linoslav									
Lectures:         Practical classes:         Other teaching types:         Study research work:         Other classes:           2         0         2         0         0           Precondition courses         None         0         0           1. Educational goal:         Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.         2. Educational outcomes (acquired knowledge):           Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.         3. Course content/structure:           Signal analysis, description in time, amplitude and frequency: Deterministic and random processes; Correlation analysis; Fourier transformation, Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; Measurement methods and characteristics: Vibrations of rotating machines; Spectral analysis, RTWA (Real Time Vibration Analysis), System analysis; Measurement of excitation and response; Transmission function; Time constant; Microphones; Tampes analysis: Campbell diagnostics and maintenance; Transmissic vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods: Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Hundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels.         4. Teaching methods: </td <td>Course</td> <td>status:</td> <td></td> <td>Elective</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Course	status:		Elective										
2         0         2         0         0           Precondition courses         None         I         Educational goal:         Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.           2. Educational outcomes (acquired knowledge):         Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.           3. Course content/structure:         Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement methods: Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels.           4. Teaching methods:         Yes         30.00         Oral part of the exam         Mandatory         Points           Project         Yes         30.00         Oral part of the exam         Yes         50.00	Number	of active teac	hing classe	es (weekly)										
Precondition courses       None         1. Educational goal:       Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.         2. Educational outcomes (acquired knowledge):         Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.         3. Course content/structure:         Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Modal analysis; Measurement of excitation and response; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations.         4. Teaching methods:       Yes       30.00       Oral part of the exam       Yes       50.00         Literature         Ord       Author       Yes       30.00       Oral part o	Le	ectures:	Practical	classes:	Other teachi	ng types:		Study resea	arch work:	Other cla	asses:			
1. Educational goal:         Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography.         2. Educational outcomes (acquired knowledge):         Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.         3. Course content/structure:         Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Osdilation forms, Measurement of excitation and response; Transmission function; Digital signostics and maintenance; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (): Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmissive vibration that define methodology of testing and border noise levels.         4. Teaching methods:       Yes       30.00       Oral part of the exam       Yes       50.00         Endetweet Ves         Ves       30.00       Oral part of the exam       Yes       50.00         Title <td></td> <td>2</td> <td>(</td> <td>C</td> <td>2</td> <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td>		2	(	C	2			0		0				
Enabling students to apply fundamental knowledge in the field of technical diagnostics of machines – measurement and analysis of vibrations of rotating machines and noise, application of infrared thermography. 2. Educational outcomes (acquired knowledge): Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques. 3. Course content/structure: Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement of excitation and response; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels. 4. Teaching methods: Lectures. Auditory classes. Consultations.  4. Teaching methods: Lecture: Auditory classes. Consultations.  4. Teaching methods: Lecture: Auditory classes. Consultations.  5. Ord Author Yes 30.00 Coral part of the exam Yes 50.00 Coral part of the exam Yes 50.00 Coral Coral Pre-examination obligation analysis handbook VCI Coral Author Yes 20.00 Coral Pre-examination obligation Amalysis handbook VCI Coral Author Yes 20.00 Coral Pre-examination Amalysis Amandbook VCI Coral Author Yes 20.00 Coral Pre-examination Amalysis handbook VCI Coral Author Y	Precond	lition courses			None									
vibrations of rotating machines and noise, application of infrared thermography.       2.         2. Educational outcomes (acquired knowledge):       Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.         3. Course content/structure:       Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement of excitation and response; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels.         4. Teaching methods:       Yes       30.00       Oral part of the exam       Yes       50.00         Project       Yes       30.00       Oral part of the exam       Yes       50.00         Transmission       Yes       20.00        Yes       50.00         Tereture       Yes       2	1. Educa	ational goal:												
Acquiring knowledge for early identification of machine damage, application during various phases of designing and through predictive and proactive machine maintenance techniques.         3. Course content/structure:         Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Socillation forms, Measurement of excitation and response; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels.         4. Teaching methods:         Lectures. Auditory classes. Consultations.         Pre-examination obligations       Mandatory       Points       Final exam       Mandatory       Points         Pre-examination obligations       Mandatory       Points       Final exam       Mandatory       Points         Propect       Yes       30.00       Oral part of the exam       Yes       50.00         Term paper       Yes       20.00       VCI       20.01       20.01       20.01       20.01       <									machines – measur	ement and a	nalysis of			
and proactive machine maintenance techniques.       Image: Construction of the second se	2. Educa	ational outcom	nes (acquir	ed knowled	ge):									
Signal analysis, description in time, amplitude and frequency; Deterministic and random processes; Correlation analysis; Fourier transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement of excitation and response; Transmission function; Nodal parameter determination; Modification structure; Technical diagnostics and maintenance; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels.  4. Teaching methods: Lectures. Auditory classes. Consultations. <b>Example 1 Example 1 Example</b>						mage, ap	plication	during various p	hases of designing	and through	predictive			
transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement of excitation and response; Types and characteristics of excitation; Modal parameter determination; Modification structure; Technical diagnostics and maintenance; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in working and living environment; Regulations that define methodology of testing and border noise levels. 4. Teaching methods: Lectures. Auditory classes. Consultations.    Yree-examination obligations Mandatory Points Final exam Mandatory Points   Project Yes 30.00 Oral part of the exam Yes 50.00   Term paper Yes 20.00  50.00   Cord. Author Title Publisher Year   1, Taylor J. The vibration analysis handbook VCI 2003   2, Harris C., Piersol A. Shock and vibration handbook McGraw Hill 2001   3, Silva C. Vibration fundamentals and practice CRC 1999	3. Cours	se content/stru	icture:											
Lectures. Auditory classes. Consultations.           Knowledge evaluation (maximum 100 points)           Pre-examination obligations         Mandatory         Points         Final exam         Mandatory         Points           Project         Yes         30.00         Oral part of the exam         Yes         50.00           Term paper         Yes         20.00	transformation; Spectral analysis, RTVA (Real Time Vibration Analysis), System analysis; System excitation and response; Transmission function; Digital signal and error processing, Measurement chain for vibration measuring; Measurement methods and characteristics; Vibrations of rotating machines; Spectral maps; Phase analysis; Campbell diagram; Orbit analysis; Modal analysis; Oscillation forms, Measurement of excitation and response; Types and characteristics of excitation; Modal parameter determination; Modification structure; Technical diagnostics and maintenance; Transmissive vibration analyzers, Diagnostics in the domain of low (), middle () and high frequencies (); Identification and methods; Designing law cost systems for online monitoring and rotating machine protection; Transmission function; Time constant; Microphones; Fundamental elements of phonometer and systems for noise measurement in													
$\begin{tabular}{ c c c c c } \hline $V$ is the the term of te$	4. Teach	ning methods:												
Pre-examination obligations       Mandatory       Points       Final exam       Mandatory       Points         Project       Yes       30.00       Oral part of the exam       Yes       50.00         Term paper       Yes       20.00         Yes       50.00         Uterature         Ord.       Author       Title       Publisher       Year         1,       Taylor J.       The vibration analysis handbook       VCI       2003         2,       Harris C., Piersol A.       Shock and vibration handbook       McGraw Hill       2001         3,       Silva C.       Vibration fundamentals and practice       CRC       1999	Lectures	s. Auditory cla	sses. Cons	sultations.										
Project         Yes         30.00         Oral part of the exam         Yes         50.00           Term paper         Yes         20.00					Knowledge e	evaluation	n (maximu	m 100 points)		-	1			
Term paper         Yes         20.00           Ves         20.00           Literature           Ord. Author         Literature           Ord.         Author         Title         Publisher         Year           1,         Taylor J.         The vibration analysis handbook         VCI         2003           2,         Harris C., Piersol A.         Shock and vibration handbook         McGraw Hill         2001           3,         Silva C.         Vibration fundamentals and practice         CRC         1999		Pre-examina	ation obliga	tions	Mandatory			Final ex	kam	Mandatory	Points			
LiteratureOrd.AuthorTitlePublisherYear1,Taylor J.The vibration analysis handbookVCI20032,Harris C., Piersol A.Shock and vibration handbookMcGraw Hill20013,Silva C.Vibration fundamentals and practiceCRC1999								Yes	50.00					
Ord.AuthorTitlePublisherYear1,Taylor J.The vibration analysis handbookVCI20032,Harris C., Piersol A.Shock and vibration handbookMcGraw Hill20013,Silva C.Vibration fundamentals and practiceCRC1999														
1,Taylor J.The vibration analysis handbookVCI20032,Harris C., Piersol A.Shock and vibration handbookMcGraw Hill20013,Silva C.Vibration fundamentals and practiceCRC1999														
2,Harris C., Piersol A.Shock and vibration handbookMcGraw Hill20013,Silva C.Vibration fundamentals and practiceCRC1999			utnor	The	, ibention on ob-		-			er				
3,     Silva C.     Vibration fundamentals and practice     CRC     1999	,	,	ersol A											
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	- ,	Taylor F.							~					



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

# Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Course:					eldbuses and pr			
Course id:	H799							
Number of ECTS:	5							
Teachers:		Juhas T. An	amarija, Stank	ovski V. S	Stevan, Jovanović M. Vuk	ica, Herakovič S. Nik	o, Đurić M. Ni	ikola
Course status:		Elective						
Number of active te	aching classe	es (weekly)						
Lectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
2	(	)	2		0		0	
Precondition cours	es		None					
1. Educational goa	:							
0		dents master	the areas of fi	eldbus teo	chnology and competition	in these areas.		
2. Educational outo	omes (acquir	ed knowledge	e):					
Students will be a simpler automated			nciples of field	bus techr	nology, based on which t	hey will be able to o	design and de	eveloped
3. Course content/s	structure:							
					us technology. Real time Foundation Fieldbus. Inc			
4. Teaching metho	ds:							
Teaching is condu Knowledge testing final exam is in wri	is carried out	lectures an through two	d exercises. I tests and the	During th final exan	e exercises the student n, while before that studer	is required to do pr nt has to do all the ex	actice-oriente ercises provi	ed tasks. ded. The
			Knowledge e	evaluation	(maximum 100 points)			
Pre-exam	ination obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Exercise attendance	e		Yes	5.00	Written part of the exam	- tasks and theory	Yes	70.00
Lecture attendance			Yes		Coloquium exam		No	20.00
Test			Yes		Coloquium exam		No	20.00
Test			Yes	10.00				
				Liter	ature			
Ord.	Author			Title	9	Publisher		Year
1, Gordana Stankovsk	Dstojić, Steva i	n Indus	strijske komuni	kacione n	nreže i protokoli - skripta	Fakultet tehničkih n	auka	2012



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



Study Programme Accreditation

Mechatronics

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Course:											
Course	id:	H797		Mechatronics in mechanization - advanced topics							
Number	r of ECTS:	5									
Teache	rs:			erenc, Čavić M ladić M. Jovar		prić Ž. Jovan, Georgijević . Ninoslav	S. Milosav, Martinov	L. Milan, Šos	takov S.		
Course	status:		Elective								
Number of active teaching classes (weekly)											
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:		
	2	(	)	2		0		0			
Precond	dition courses			None		•					
1. Educ	ational goal:										
	-	knowledge	e of mechatro	onic systems ir	n mechani	ization, referring to the fie	ld of a student's final	work.			
2. Educ	ational outcom	es (acquire	ed knowledge	e):							
	tion of advan	ced knowl	edge for stu	dent's final w	ork comp	pletion and scientific wo	rk in the field of me	chatronic sy	stems in		
3. Cours	se content/stru	cture:									
Depend	ls on the field c	of student's	final work.								
4. Teac	hing methods:										
	Ū	soarch co	neultanov I (	octuros aro co	nductod i	n combination. Lectures i	n theoretical part are	followed by	avamplas		
						e course can be taken in					
during t	he semester a	nd also thr	ough course			,					
				1		(maximum 100 points)					
	Pre-examina	ition obliga	tions	Mandatory	Points	Final ex	am	Mandatory	Points		
Project				Yes		Oral part of the exam		Yes	50.00		
Term pa	aper			Yes	20.00						
					Liter	ature					
Ord.		uthor			Title	<b>;</b>	Publishe	r	Year		
1,	A. Piersol, J.			om data			Willey		2000		
2,	Keith Cheatle					rement Instrumentation	ISA		2006		
3,	Robert North	trop	Introc	duction to instr	umentatio	n and measurements	Taylor and Francis		2011		



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# Study Programme Accreditation



Mechatronics

Course:	:										
Course	id:	1843	Maintenance effectiveness								
Number	r of ECTS:	5									
Teache	rs:		Beker A. I	van, Kamberovio	ć L. Bato						
Course	status:		Elective								
Number	Number of active teaching classes (weekly)										
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:		
	2	0		2		0		0			
Precond	dition courses										
1. Educ	ational goal:										
The goal of the course is to teach students how to identify objectives of maintenance and how to align with the objectives of the entire organization, and then to identify the factors that affect the defined objectives and values ??that can be measured in order to determine the extent to which the objectives are met.											
2. Educ	ational outcom	nes (acquire	d knowled	ge):							
objectiv	es of the who	ole organiza	tion, to de	efine a procedu	re that wi	ble to define the objective Il present exact way to de necessary to calculate th	determine the exten	t of achievin	g defined		
3. Cours	se content/stru	icture:									
The purpose of maintenance, maintenance objectives and objectives of the organization and the procedure for determining the realization of the objectives, define the values required for determining the successfulness of maintenance, defining the procedure for the collection of those values, controlling the implementation of the defined process, identifying problems and collecting and systematizing knowledge, improvement of the process of determining the effectiveness of maintenance											
4. Teac	hing methods:										
Teaching is done through auditory lectures are accompanied by slides and exercises that further elaborate on solving specific problems. Both lectures and exercises are accompanied by a large number of practical examples.											
				Knowledge e	evaluation	(maximum 100 points)					
	Pre-examina	tion obligati	ons	Mandatory	Points	Final ex	kam	Mandatory	Points		
	e attendance			Yes		Written part of the exam	- tasks and theory	Yes	70.00		
	attendance			Yes	5.00						
Term pa	aper			Yes	20.00	- 4					
			Literature								
Ord.		uthor	Title Publisher					Year			
1,	Ivan Beker, I	nayoijub Se		vić Uspešnost održavanja, skripte sa predavanja Fakultet tehničkih nauka 2013							



Standard 06.

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

### Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Programme Quality, Contemporaneity and International Compliance

The study programme is coordinated with contemporary trends and situation in profession, science and art in adequate educational scientific or educational artistic field and it is compatible with similar programmes in international higher education institutions.

The study programme of Mechatronics is created as a comprehensive programme and provides students latest scientific knowledge in the field.

The programme of Mechatronics is comparable and coordinated with the following faculties:

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

http://www.tu-ilmenau.de/modultafeln/Mechatronik/Master/2008/

http://www.tuhh.de/t3resources/tuhh/download/studium/pruefungsamt/po/imp/Studienplan\_IMP\_MEC\_201



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

### Study Programme Accreditation

Mechatronics

Standard 07. Student Enrollment

MASTER ACADEMIC STUDIES

The Faculty of Technical Science, in accordance with social demands and its resources, enrols students to adequate study programme based on their success in the previous education and entrance examination testing their knowledge, aptitudes and skills. Selection of students and their enrolment is based on success in previous education and success in the enrolment exam and in accordance with Faculty Regulation for student enrolment to study programmes. The enrolment exam is organize only in case of a larger number of candidates.

Students from other study programme can transfer to this study programme as well as persons who completed studies. The evaluation commission evaluates all passed exams and on the bases of recognized exams decides whether the candidate's previous success can completely or partially be recognized. The Commission can require appropriate additional differential exam or not to recognize any of the previously passed exam.



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Standard 08. Student Evaluation and Progress

The evaluation of students is performed by continual monitoring of students` accomplishments and the points obtained in fulfilling prerequisites and taking examinations.

The students master the study programme by taking examinations and thus obtaining a certain number of ECTS credits, in accordance with the study programme of graduate academic studies in Mechatronics.

Each course at the study programme has a set number of ECTS credits which students obtain on successfully passing the examination. Students' success in mastering a certain course is constantly monitored during classes and is presented in points. Maximum number of points obtained in a course is 100. Students obtain points from a course through their work during classes, fulfilment of their prerequisites and taking the examination. Each course at the study programme has a clear and publicly known mode of obtaining points.

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

For a student to be allowed to take an exam, he/she needs to be awarded at least 15 ECTS credits in subject's prerequisites. Additional terms for taking an exams are defined for each subject individually. Student's advancement during the studying is determined by Regulations for studying at graduate academic studies.



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

## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Standard 09. Teaching Staff

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

Total number of lecturers and associates employed at the study programme is adequate to accomplish the total number of classes in the study programme so that the professor performs on average 180 active classes annually (lectures, consultations, practical classes, practical work, etc), that is 6 classes weekly. All necessary lecturers are full time employed at the Faculty.

Number of associates corresponds the needs of the study programme. Total number of associates in study programme is enough to cover total number of classes so that associates realize 300 classes on average of active classes annually, that is 10 classes weekly.

Scientific and professional qualifications of lecturers an assistants is in relation to educational and scientific field. Each professor has at least five references in the professional field in which he/she performs the lectures.

Group size for classes is up to 32, practical classes groups is up to 16, and laboratory practical classes groups up to 8 students.

None of the professors has more than 12 classes weekly. All data on lecturers and assistants (CV, references) are publicly available.





Study Programme Accreditation

MASTER ACADEMIC STUDIES

### Mechatronics

Acad Nam starti		ame:							
Nam starti	Name and last name: Academic title:					Beker A. Ivan			
starti					Associate Professor Faculty of Technical Sciences - Novi Sad				
	e of the inst ng date:	itution v	vnere the te	eacher works full time and	01.12.1987				
				12.1987 ality, Effectiveness and Logistics					
	lemic cariee		Year	Institution	,		Field		
	lemic title el		2012				Quality, Effectiveness and Logistics		
	thesis	00110111	2001	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management		
	ster thesis		1996	Faculty of Technical Sci			Engineering Management		
	elor's thesis		1986	Faculty of Technical Sci			Engineering Management		
				acher in the accredited stu					
					ady programme				
	ID	Course	e name			Study pro	gramme name, study type		
1.	URZP49	Logisti	cs in the C	onditions of Catastrophic I	Events	(ZP0) Disa Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
2.	II1016	Reliab	ility of tech	nical systems and Mainter	nance	(110) Indus Studies	strial Engineering, Undergraduate Academic		
3.	II1040	Organi	ization and	mamanagement of mainte	enance	(110) Indus Studies	strial Engineering, Undergraduate Academic		
4.	II1043	Mainte	nance tech	iniques and technologies		(110) Indus Studies	strial Engineering, Undergraduate Academic		
_	1144000	Interr		Support Lociatia		( I10) Industrial Engineering, Undergraduate Academic Studies			
5.	IM1030	Integra	al Systems	Support - Logistic		( I20) Engii Studies	neering Management, Undergraduate Academic		
6.	IM1036	Reliab	ility Theory			( I20) Engii Studies	neering Management, Undergraduate Academic		
7.	IM1049	Supply	r chain Mar	nagement		(I20) Engineering Management, Undergraduate Academic Studies			
8.	IM1614	Organi	ization and	Management of Logistic		(I20) Engineering Management, Undergraduate Academic Studies			
9.	IM1615	Mainte	nance of T	echnical Equipment		(I20) Engineering Management, Undergraduate Academic Studies			
10.	IM1618	Desigr	and Analy	rsis of Maintenance Proce	dure	Studies	strial Engineering, Undergraduate Academic neering Management, Undergraduate Academic		
11.	IM1620	Revers	se and Gre	en Logistic		(I20) Engin Studies	neering Management, Undergraduate Academic		
12.	IM1622	Inform	ation Secu	rity Management System		(I20) Engin Studies	neering Management, Undergraduate Academic		
13.	IM1623	Occup	ational Hea	alth and Safety Manageme	ent System	(I20) Engin Studies	neering Management, Undergraduate Academic		
14.	I501	Risk M	lanagemen	t		( 110) Indus	strial Engineering, Master Academic Studies		
15.	1841	Spare	parts mana	agement		( 110) Indus	strial Engineering, Master Academic Studies		
16.	IMDR0S	Selecte and co	•	s in enterprise's design, or	ganization	(112) Industrial Engineering, Specialised Academic Studies (122) Engineering Management, Specialised Academic Studies			
17.	IMDS95	Trends in Customer Relationship Management			nent	<ul> <li>(112) Industrial Engineering, Specialised Academic Studies</li> <li>(122) Engineering Management, Specialised Academic Studies</li> </ul>			
18.	PLM10	Produc	ct Servicing	and Maintenance		(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies			
19.	LIM16	Production Logistics				( LIM) Logistic Engineering and Management, Master Academic Studies			
20.	LIM18	Life Cy	cle Costs a	and Supply		( LIM) Logistic Engineering and Management, Master Academic Studies			



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List c	ist of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
21.	LIM30	Inventory Planning and Management	( LIM) Logistic Engineering and Management, Master Academic Studies						
22.	1843	Maintenance effectiveness	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies						
23.	IIDS12	Quality and organizational performance	<ul> <li>( I12) Industrial Engineering, Specialised Academic Studies</li> <li>( I22) Engineering Management, Specialised Academic Studies</li> </ul>						
24.	IIDS30	Trends in the environmental management systems	<ul> <li>(112) Industrial Engineering, Specialised Academic Studies</li> <li>(122) Engineering Management, Specialised Academic Studies</li> </ul>						
25.	IIDS7	Selected topics in quality engineering and logistics	(112) Industrial Engineering, Specialised Academic Studies						
26.	IM2607	Risk management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies						
27.	IM2615	Lean Logistics	(I20) Engineering Management, Master Academic Studies						
28.	IM2617	Information Systems to Support Quality, Logistics and Maintenance	(120) Engineering Management, Master Academic Studies						
29.	IM2618	Transportation management	(I20) Engineering Management, Master Academic Studies						
30.	IM2619	Stock planning and management	(I20) Engineering Management, Master Academic Studies						
31.	IM2620	Lean Maintenance	(110) Industrial Engineering, Master Academic Studies (120) Engineering Management, Master Academic Studies						
32.	IM2622	Design and Implementation of Health and Safety System	(120) Engineering Management, Master Academic Studies						
33.	IMDS74	Selected Topics in Quality Management and Logistics	(122) Engineering Management, Master Academic Studies (122) Engineering Management, Specialised Academic Studies						
34.	IMDR0	Science of Industrial Engineering and Management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
35.	IMDR94	Trends in the environmental management systems	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
36.	IMDR95	Trends in Customer Relationship Management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
37.	IMDR74	Selected Topics in Quality Management and Logistics	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
38.	IMDR79	Selected topics in quality engineering and logistics	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
39.	IMDR83	Quality abd organisational performance	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
40.	ZRD232	Logistics in the Security Services and Health at Work	(Z01) Safety at Work, Doctoral Academic Studies						
41.	ZRD29A	Selected Topics in Systems Reliability	(Z01) Safety at Work, Doctoral Academic Studies						
Rep	presentative	refferences (minimum 5, not more than 10)							
1.		., Šević D., Beker I., Kesić I., Milisavljević S.: Procedure for ternational Journal of the Physical Sciences, 2012, Vol. 7, I							
2.	WITH TH	ki V., Pečujilja M., Kamberović B., Jovanović R., Delić M., E E APPLICABILITY OF THEIR KNOWLEDGE, TTEM. Tehn '85, ISSN 1840-1503	Beker I.: SATISFACTION OF HIGH SCHOOL STUDENTS ics tehnologies education management, 2012, Vol. 7, No 2,						
3.	and Moni	ć M., Šević D., Karanović V., Beker I., Dudić S.: Increased toring 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.						
4.	Radlovački V., Beker I., Majstorović V., Pečujlija M., Stanivuković D., Kamberović B.: Quality Managers' Estimates of Quality								
5.		ost tehničkih sistema, autori prof. dr Gradimir Ivanović, prof. adu, Fakultet tehničkih nauka, Novi Sad, 2010, ISBN 978-8	dr Dragutin Stanivuković, prof. dr Ivan Beker; Univerzitet u 6-7892-247-3						
6.		ZAPTIVANJE I ZAPTIVNI MATERIJALI, FTN -Institut za indi	ustrijske sisteme i IIS - Istraživački i tehnološki centar, Novi						
7.	D. Staniv		nnologije reparature i regeneracije delova, Časopis Traktori i						
8.	D. Šević,	I. Beker, S. Milisavljević: UPOREDNA ANALIZA ZAHTEVA 96., International Journal Total Quality Management & Exce							
	14001.10		510100, 101.04, 100 0 4, 2000.						

MAS STU				MANX II			
AND AND	NOR CONCERNING	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSIT	TEJA OBRADOVIĆA 6	State State	
Stu			Programme A	on	See See		
6	PLANTENS	MASTER ACADEMIC STUDIES	-		Mechatronics	·9 H08	
Rep	presentative re	efferences (minimum 5, not more th	an 10)				
9.		Radaković: ISKUSTVA NA IMPLEI nt & Excellence, Vol.34, No 3 – 4, 2		1 STANDARDA, I	International Journal Total C	Quality	
10.		ović, S. Kecojević, I. Beker: Projekt juni 1993., Kragujevac, 1993.	ovanje održavanja na	modularnom prin	cipu, 1 str., Tribologija u ind	ustriji, godina	
Sur	mmary data fo	r teacher's scientific or art and profe	essional activity:				
Quot	tation total :		0				
Tota	I of SCI(SSCI)	list papers :	4				
Curre	ent projects :		Domestic :	0	International :	4	



## Study Programme Accreditation MASTER ACADEMIC STUDIES



#### Science, arts and professional qualifications

Acade Name startir Scien Acade	ng date: tific or art f	itution w	where the te	eacher works full time and	Borovac A. Bi Full Professo					
Name startir Scien Acade	e of the inst ng date: tific or art f emic cariee	ield:	where the te	eacher works full time and						
startir Scien Acade	ng date: tific or art fi emic cariee	ield:		Name of the institution where the teacher works full time and			Faculty of Technical Sciences - Novi Sad			
Acade	emic cariee		starting date:			01.10.1975				
Acade					Mechatronics, Robotics and Automation and Integral Systems					
	emic title el	Academic carieer Year Institution					Field			
PhD t		ection:	1998	Faculty of Technical Sci	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Integral Systems			
	hesis		1986	Faculty of Technical Sci	ences - Novi Sa	ad	Robotics and Flexible Automation			
Magis	ster thesis		1982	Faculty of Technical Science	ences - Novi Sa	ad	Robotics and Flexible Automation			
Bache	elor's thesis	S	1975	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanical Engineering			
List of	f 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.	EM436	Mecha	itronics			( M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies			
2.	H102	Funda	mentals in I	Product Development		(H00) Mec	chatronics, Undergraduate Academic Studies			
						(H00) Mec	chatronics, Undergraduate Academic Studies			
3.	H1404	Mecha	tronics				hnical Mechanics and Technical Design, uate Academic Studies			
4.	H308	Industr	rial Robotic	S		(H00) Mec	chatronics, Undergraduate Academic Studies			
						(F10) Eng Studies	ineering Animation, Undergraduate Academic			
5.	1600	Industr	rial Robotic	5		( MR0) Measurement and Control Engineering, Undergraduate Academic Studies				
							er, Electronic and Telecommunication g, Undergraduate Academic Studies			
6.	BM116A	Basics	of medical	robotics		( BM0) Bio Studies	medical Engineering, Undergraduate Academic			
7.	EM436A	Mecha	tronics			(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies				
8.	II1035	Industr	rial robotics			(110) Indus Studies	strial Engineering, Undergraduate Academic			
0.	11000	maasa					hnical Mechanics and Technical Design, uate Academic Studies			
9.	H1503	Non In	dustrial Rol	botics and Automation in I	Buildinas		chatronics, Master Academic Studies			
Ŭ.							strial Engineering, Master Academic Studies			
10.	HDOK1 S	Select	ed topics in	industrial robotics		Èngineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies			
11.	HDOK2 S	Select	ed topics in	non-industrial robotics		( 112) Indus	strial Engineering, Specialised Academic Studies			
12.	IMDR0S	Selecter and co	•	in enterprise's design, or	ganization		strial Engineering, Specialised Academic Studies neering Management, Specialised Academic			
13.	NIT05	Advan	ced Techno	ology for Material Handling	]		strial Engineering - Advanced Engineering ies, Master Academic Studies			
14.	AD0007	Interactive systems in architecture					ital Techniques, Design and Production in e and Urban Planning, Master Academic Studies			
15.	H828	Advan	ced robotic	S		(H00) Mec	chatronics, Master Academic Studies			
						( 110) Indus	strial Engineering, Master Academic Studies			
16.	H829	Advan	ced robotic	S		(M40) Technical Mechanics and Technical Design, Mas Academic Studies				
17.	IIDS6	Select	ed chapters	in automation		( 112) Indus	strial Engineering, Specialised Academic Studies			
18.	GD018					· /	I Engineering, Doctoral Academic Studies thematics in Engineering, Doctoral Academic			



Mechatronics



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## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

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

List c	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	ime name, study type					
					Electronic and Telecommuni octoral Academic Studies	cation				
19.	HDOK-1	Soloctod Chaptors in Industrial Bob	atics	(H00) Mechatronics, Doctoral Academic Studies						
19.	HDOK-1	Selected Chapters in Industrial Rob	Jucs	(M40) Technica	al Mechanics, Doctoral Aca	demic Studies				
				( OM1) Mathem Studies	atics in Engineering, Docto	ral Academic				
					lectronic and Telecommuni octoral Academic Studies	cation				
				(H00) Mechatro	onics, Doctoral Academic S	tudies				
20.	HDOK-2	Selected Chapters in Non-Industrial	Robotics	( I20) Industrial Doctoral Acade	Engineering / Engineering I mic Studies	Vanagement,				
				(M40) Technica	al Mechanics, Doctoral Aca	demic Studies				
				( OM1) Mathem Studies	atics in Engineering, Docto	ral Academic				
				(H00) Mechatro	onics, Doctoral Academic S	tudies				
21.	HDOKL1	Selected topics in non-industrial rob	otics	( M00) Mechani	cal Engineering, Doctoral A	cademic Studies				
				(M40) Technica	al Mechanics, Doctoral Aca	demic Studies				
22.	HDOKL2	Selected topics in non-industrial rob	otics	(H00) Mechatro	onics, Doctoral Academic S	tudies				
				(M40) Technical Mechanics, Doctoral Academic Studies						
23.	IMDR0	Science of Industrial Engineering an	d Management	( I20) Industrial Doctoral Acade	Engineering / Engineering I mic Studies	Vanagement,				
24.	IMDR80	Selected chapters in automation		( I20) Industrial Doctoral Acade	Engineering / Engineering I mic Studies	Vanagement,				
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.		oratović, V. Potkonjak, K. Babković, E Dynamics, Volume 17, Number 1, (Fe								
2.		ović M., Borovac B., Potkonjak V., To (2007) Vol. 25, pp. 87-101	wards a Unified Unde	erstanding of Basi	c Notions and Terms in Hur	nanoid Robotics,				
3.		ović M., Borovac B., Potkonjak V., ZM p. 2 (2006), pp. 153-176	IP: A Review of Some	e Basic Misunder-	standings, Int. Jour. of Hum	anoid Robotics,				
4.		njak, M. Vukobratović, K. Babković, B s and Verification, Int. Jour. of Human				lotion: Feasibility,				
5.		ović M., Borovac B., Babković K., "Co d Robotics, Vol. 2, No. 3 (2005), pp. 3		y of Anthropomor	phism of Humanoid Robots	", Int. Jour. of				
6.	Vukobrat	ović M., Borovac B., Note on the Artic , Vol. 2, No.2, June 2005, pp. 225-227	le "Zero-Moment Poi	nt- Thirty Five Yea	ars of its Life", Int. Jour. of ⊦	lumanoid				
7.	Vukobrat	ović M., Borovac B., "Zero-Moment P 104, pp. 157-173		s of its Life", Int. J	our. of Humanoid Robotics,	Vol. 1, No.1,				
8.	M. Vukob	pratović, D. Andrić, B. Borovac, "How d Robotic Systems, Vol. 1., No. 2, Pa		ait Patterns from S	Single Nominal ", Internation	nal Journal of				
9.	L. Juhas,	A. Vujanić, N. Adamović, L. Nagy, B. pnics, Vol. 11, (2001), pp.869-897	<b>0</b>	for Micro-Positior	ing Based on Piezo-Legs",	The Journal of				
10.	M. Vukot Patterns	pratović, D. Andrić, B. Borovac, "Huma from a Single Nominal ", Cutting Edge /er-lag Robert Mayer-Scholz, © 2005	Robotics, Edited by	V. Kordic, A. Laza	anica, M. Merdan, Published					
Sur	Summary data for teacher's scientific or art and professional activity:									
	ation total :		1998							
		CI) list papers :	35	1.	1					
Curre	ent projects	:	Domestic :	2	International :	1				



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

# AND THE REAL PROPERTY OF

Mechatronics

Name and last name:					Budak M. Igor			
Academic title:					Assistant Professor			
		titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:				06.09.2001			
					Metrology, Q	uality, Fixtur	es and Ecological-Engineering Aspects	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	lection:	2010	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
PhD	thesis		2009	Faculty of Mechanical E	ngineering - Lji	ubljana	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Magi	ster thesis		2004	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
Bach	elor's thesis	S	1998	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	gramme name, study type	
1.	IA018	3D Dig	gitalization I	Methods		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
2.	P1401	Fixture	e Design an	d Measuring Machines		( P00) Proo Studies	duction Engineering, Undergraduate Academic	
						( P00) Proo Studies	duction Engineering, Undergraduate Academic	
3.	P1508	Revers	se Enginee	ring and CAQ			tware Engineering and Information Technologies, uate Academic Studies	
						(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
						(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies		
4.	P209	Measu	irements ar	nd Quality		J J	duction Engineering, Undergraduate Academic	
5.	P306	Fixture	es				duction Engineering, Undergraduate Academic	
6.	Z207	Mecha	inical Engin	eering in Environmental E	Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	Z207A	Mecha	nical Engin	eering in Environmental E	Ingineering	(Z01) Safety at Work, Undergraduate Academic Studies		
8.	Z301	Polluti	on Measure	ement and Control		(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies		
9.	Z416	EMS S	Systems			(Z20) Environmental Engineering, Undergraduate Academic Studies		
10.	ZRI441	Materia protec		systems for environmenta	al and labor	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
11.	Z416			i naziv na engleskom)		(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
12.	BM119D	Revers engine		ing and rapid prototyping	in biomedical	( BM0) Bio Studies	medical Engineering, Undergraduate Academic	
13.	P322	Introdu	uction to Pro	ecision Engineering		( P00) Prod Studies	duction Engineering, Undergraduate Academic	
14.	ZC036	Measu	irement and	d control of pollution		( ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
15.	P1409	Materi	al Control S	ntrol Systems and CAI			duction Engineering, Master Academic Studies	
16.	P1501	Ecolog	gical Techno	ologies and Systems		(M40) Technical Mechanics and Technical Design, Master Academic Studies		
		<b>-</b> ·				, ,	duction Engineering, Master Academic Studies	
17.	Z416A	Enviro	nment Prot	ection System Manageme	ent	<u>, , , , , , , , , , , , , , , , , , , </u>	duction Engineering, Master Academic Studies	
18.	1907	Autom	ated Assen	nbly Systems for High Acc	curacy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies		
19.	P321	Revers	se Enginee	ring and Rapid Prototyping	g	(110) Industrial Engineering, Master Academic Studies		
20.	PIP16	Plastic	s and envir	onmental protection		(PM0)Pro	duction Engineering, Master Academic Studies	



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

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

List c	ist of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	ne name, study type					
21.	PLIS1	Logistics and Simulation in Technolo Processing	ogies of Plastics	(PM0) Productio	on Engineering, Master Acad	lemic Studies				
22.	PP103	Measurement and tools in precision	engineering	(PM0) Production Engineering, Master Academic Studies						
23.	SM3	Software support for reverse engine	ering and CAQ	(PM0) Productio	on Engineering, Master Acad	lemic Studies				
24.	SZSP18	Contemporary scientific approaches in life cycle								
25.	DM411	Contemporary Approach to Integrati Engineering of Rapid Prototyping, To Virtual Manufacturing	ools, Products and	(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies				
26.	DP001	Design and Research Methods in Pr Engineering		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies				
27.	DP006	State and development trends of me fixtures	trology, quality and	(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies				
28.	DP013	Ecological Engineering Aspects		(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies				
29.	DP019	Selected topics in technical diagnosi	S	(M00) Mechanic	al Engineering, Doctoral Ac	ademic Studies				
30.	ZDH1	Modern Methods of Eco-design		(Z00) Environm Studies	ental Engineering, Doctoral	Academic				
31.	ZSP18	Modern Scientific Approaches in Pro Assessment (LCA)	oduct Life Cycle	( Z00) Environm Studies	ental Engineering, Doctoral	Academic				
Rep	Representative refferences (minimum 5, not more than 10)									
1.	1. Budak I., Vukelić Đ., Bračun D., Hodolič J., Soković M.: Pre-Processing of Point-Data from Contact and Optical 3D Digitization Sensors, Sensors, 2012, Vol. 12, No 1, pp. 1100-1126, ISSN 1424-8220									
2.	Tadić B., Jeremić B., Todorović P., Vukelić Đ., Proso U., Mandić V., Budak I.: Efficient workpiece clamping by indenting cone-									
3.		, Nagode A., Budak I., Antić A., Kose 2011, Vol. 18, pp. 450-454, ISSN 13		ion from the drive	of a cement mill, Engineerin	ng Failure				
4.		Soković M., Barišić B.: Accuracy imp cision-making, MEASUREMENT, 201				<sup>-</sup> uzzy logic-				
5.		Hodolič J., Soković M.: Developmen f Materials Processing Technology, 2				Engineering,				
6.	manufact	<i>r</i> ić D., Puškar T., Budak I., Vukelić Đ., ure of removable partial dentures with I. 46, No 2, pp. 123-129, ISSN 1580-2	a biocompatibility and							
7.		B., Budak I., Todorović A., Hodolič J., icy Measurement of Ceramic Crowns,								
8.		<ol> <li>Kljajin M., Budak I., Tadić B., Vukel hicles' environmental performances, T</li> </ol>								
9.	workpiec	)., Miljanić D., Ranđelović S., Budak I. e penetration (Article in press, date of je, 2012, ISSN 1580-2949								
10.		)., Tadić B., Miljanić D., Budak I., Todo J machining performance, Tehnički vje								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
Quot	ation total :		25							
Total	of SCI(SS	CI) list papers :	20							
Curre	ent projects	:	Domestic :	4	International :	7				







Mechatronics

#### Science, arts and professional qualifications

MASTER ACADEMIC STUDIES

Name and last name: Crnojević S						ladimir		
					-	Crnojević S. Vladimir Associate Professor		
		tution v	where the te	eacher works full time and		iculty of Technical Sciences - Novi Sad		
starting da					10.11.1995			
Scientific	or art fi	eld:			Telecommuni	cations and	Signal Processing	
Academic	c cariee	r	Year	Institution	-		Field	
Academic	c title ele	ection:	2010				Telecommunications and Signal Processing	
PhD thesi	is		2004	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing	
Magister t	thesis		1999	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing	
Bachelor's	s thesis	;	1995	Faculty of Technical Sci	ences - Novi S	ad	Telecommunications and Signal Processing	
List of cou	urses be	eing he	ld by the te	acher in the accredited stu	udy programme	es		
ID		Course	e name			Study pro	gramme name, study type	
1. E	K412	Shape	Recognitio	n		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
2. E	K421	Digital	Image Pro	ressing		Studies (S01) Pos	ineering Animation, Undergraduate Academic tal Traffic and Telecommunications,	
2.	-11721	Digital	iniuge i ro	ocooning		(E10) Pow	uate Academic Studies er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3. UR	RZP32	System	ns for Dete	ction, Alarm and Warning		(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies		
4. BM	1129A	Digital	Image Pro	cessing		( BM0) Bio Studies	medical Engineering, Undergraduate Academic	
5.	E137	Basics	of Telecon	nmunications		· · ·	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
6. E	EK463	Patterr	n Recogniti	on		(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
7. DE	311S	Select	ed topics in	Pattern Recognition			ver, Electronic and Telecommunication g, Specialised Academic Studies	
8. DE	412S	Digital	image proc	cessing algorithms		(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies		
9. DE	511S	Wirele	ss sensor r	etworks			ver, Electronic and Telecommunication g, Specialised Academic Studies	
10. E	K520	Medica	al Image Pr	ocessing			er, Electronic and Telecommunication g, Master Academic Studies	
11. E	K522	Compu	uter Vision	(Digital Image Processing	2)		ineering Animation, Master Academic Studies er, Electronic and Telecommunication	
						Engineering, Master Academic Studies		
12. ⊦	11420	Funda	mentals in	Mechanical Vision		· ,	chatronics, Master Academic Studies	
13. IM	DS54		uter Vision i jement	in Industrial Engineering a	ind	<b>`</b> '	strial Engineering, Specialised Academic Studies neering Management, Specialised Academic	
14. Z	ZP508	Desigr	n and Maint	enance of the Fire Detect	ion Systems	(ZP1) Disa Academic	aster Risk Management and Fire Safety, Master Studies	
15. D	DE311	Selected Chapters in Pattern Recognition					ver, Electronic and Telecommunication g, Doctoral Academic Studies	
16. D	)E412	Digital Image Processing Algorithms				(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies (OM1) Mathematics in Engineering, Doctoral Academic		
17. D	DE511	Wireless Sensor Networks				Studies ( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		
18. IM	DR54	A Computer Vision in Industrial Engineering and Management			ind	( I20) Indus	strial Engineering / Engineering Management, cademic Studies	
Represe	entative		·	num 5, not more than 10)				



## Study Programme Accreditation



MASTER ACADEMIC STUDIES

#### Mechatronics

Re	Representative refferences (minimum 5, not more than 10)							
1.	Dejan Vukobratovic, Cedomir Stefanovic, Vlad Data Gathering in Wireless Sensor Networks", 1179, September 2010.							
2.	Petrovic, N.I.; Crnojevic, V.: Universal Impulse Noise Filter Based on Genetic Programming, IEEE Transactions on Image Processing, 2008, Vol. 17, No. 7, str. 1109- 1120, ISSN 1057-7149							
3.	D. Culibrk, M. Mirkovic, V.Zlokolica, M. Pokric, V. crnojevic, D. Kukolj, "Salient Motion Features for Video Quality Assessment", IEEE Trans. on Image Processing, Volume: 20 Issue:4, pp(s): 948 - 958, ISSN: 1057-7149							
4.	<ul> <li>Cedomir Stefanovic, Dejan Vukobratovic, Francesco Chiti, Lorenzo Niccolai, Vladimir Crnojevic, Romano Fantacci: "Urban</li> <li>Infrastructure-to-Vehicle Traffic Data Dissemination Using UEP Rateless Codes", IEEE Journal on Selected Areas in Communications, Vol. 29, No. 1, pp. 94-102, January 2011.</li> </ul>							
5.	Vladimir Crnojević, Nemanja Petrović, "Impulse Noise Filtering Using Robust Pixel-Wise S-estimate of Variance", EURASIP Journal on Advances in Signal Processing, vol. 2010, Article ID 830702, 10 pages, 2010,							
6.	<ul> <li>V. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters,</li> <li>vol.11, No. 7, 2004, str. 589-593. Crnojević, V. Šenk, Ž. Trpovski, "Advanced Impulse Detection Based on Pixel-Wise MAD", IEEE Signal Processing Letters, vol.11, No. 7, 2004, str. 589-593.</li> </ul>							
7.	B. Antić, V. Crnojević, "Joint Domain-Range M 4678, Springer-Verlag, Berlin Heidelberg 2007		cenes with Adapti	ve Kernel Bandwidth", pp.77	'7-788, LNCS			
8.	N. Petrović, V. Crnojević, "Evolutionary Tree-S Verlag, Berlin Heidelberg 2006.	tructured Filter for Imp	ulse Noise Remo	val", pp.103-113, LNCS 417	9, Springer-			
9.	N. Petrović, V. Crnojević, "Impulse Noise Dete 3708, Springer-Verlag, Berlin Heidelberg 2005		Statistics and Ge	enetic Programming", pp.643	3-649, LNCS			
10.	V. Crnojević,,,Impulse Noise Filter With Adaptiv Italy, 11-14. September, 2005.	e Mad-Based Thresho	old", International	Conference on Image Proce	ssing, Genoa,			
Su	Summary data for teacher's scientific or art and professional activity:							
Quo	tation total :	135						
Tota	I of SCI(SSCI) list papers :	10						
Curr	Current projects : Domestic : 3 International : 10							







Mechatronics

#### Science, arts and professional qualifications

MASTER ACADEMIC STUDIES

	e and last n emic title:	ame:				Časnji F. Ferenc			
						Full Professor Faculty of Technical Sciences - Novi Sad			
	e of the inst ng date:	itution v	vhere the te	acher works full time	e and	30.01.1971			
	ntific or art f	eld:				30.01.1971 Motor Vehicles			
Academic carieer Year Institution				Field					
Acad	emic title el	ection:	1996	Faculty of Technica	al Sci	ences - Novi Sa	ad	Motor Vehicles	
	thesis		1985	Faculty of Technica				Motor Vehicles	
Magi	ster thesis		1977	Faculty of Agricultu				Motor Vehicles	
Bach	elor's thesis	6	1971	Faculty of Mechani			ovi Sad	Motor Vehicles	
List c	of courses b	eing he	ld by the tea	acher in the accredite	ed stu	udy programme	s		
	ID	Course	e name				Study pro	ogramme name, study type	
1.	H2402	Motor '	Vehicle Me	chatronics			(H00) Med	chatronics, Undergraduate Academic Studies	
2.	M2404A	Motor	Vehicles					chanization and Construction Engineering, luate Academic Studies	
2	M202	Funda	mentals of	Matar				chanization and Construction Engineering, luate Academic Studies	
3.	M303	Funda	mentals of	Motor Vehicles				chnical Mechanics and Technical Design, luate Academic Studies	
4.	M310A	Road	Vehicle The	eory			(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies		
5.	S0I361	361 Road Vehicles					( S00) Traffic and Transport Engineering, Undergraduate Academic Studies		
6.	ZR403A	Motor	vehicles op	eration safety			(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	M2515	5 Motor Vehicle Simulation and Modelling				(M22)Mee Academic	chanization and Construction Engineering, Master Studies		
8.	M2549	ROAD	TRAFFIC I	FORENSIC ENGINE	ERIN	IG	(M22)Meo Academic	chanization and Construction Engineering, Master Studies	
9.	LIM14	Monito	oring and Di	agnostics of Transpo	ortatio	on Means	( LIM) Logistic Engineering and Management, Master Academic Studies		
10.	H797	Mecha	tronics in m	nechanization - adva	inced	topics	(H00) Mechatronics, Master Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more thar	n 10)				
1.	Časnji F:	Ergono	mski nedos	taci poljoprivrednih t	trakto	ra, Monografija	, Fakultet te	hničkih nauka, Novi Sad, 1991, str.157.	
2.			D: Pregled e c, 2005. str.		eristika	a traktora velike	e snage, Mo	onografija povodom 30 godina izdavanja časopisa	
3.	Časnji F.,	Stojić B	: Razvoj hil	oridnih elektro-dizel t	trakto	ra, Traktori i po	gonske ma	šine, 13 (2008)4, Novi Sad 54-59	
4.	Časnji F., 180	Torović	ć T., Muzikr	avić V: Energetska e	efikas	nost traktora, N	lonografija,	Fakultet tehničkih nauka - Novi Sad, 2009, str.	
5.	Ružić D., applicatio	Časnji l ns, ed.	F.: Therma Salim N. Ka	Interaction Between azi, Vol. 1, pp. 295-3	a Hu 18, In	uman Body and Tech. Rijeka,	l Vehicle Ca 2012.	abin, in: Heat transfer Phenomena and	
6.				je goriva pomoću me Sad, 2010, str. 41-57		oničkih sistema	u transmisi	iji traktora, poglavlje u monografiji "Aktuelni pravci	
7.								ke povećanjem akustičke apsorpcije, Zbornik c, 2004, str. 352-360.	
8.				ić V: Savremene ten 2001.god. str.80	Idenci	ije u automobils	skoj tehnici -	- mehaničke komponente i elektronski sistemi,	
9.	Milidrag S Novi Sad			ravić V., Poznanović	: N.: S	istemi upravlja	nja motornil	h vozila, monografija, Fakultet tehničkih nauka,	
10.				g S.: Stanje i pravci ašinstvo za XXI vek"				a, monografija naučne konferencije sa	
Sur	nmary data	for teac	her's scient	tific or art and profes	siona	I activity:			
	ation total :				38				
	of SCI(SSC	<i>,</i> .	apers :		0				
Current projects : Domestic :					0	International : 0			



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Nam	Name and last name:					Čavić M. Maja			
	lemic title:				Assistant Professor				
Nam	e of the inst	titution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad				
starti	ng date:				03.11.1988				
Scier	ntific or art f	ield:			Machine Elements, Construction Principles, Machine and Mechanizm				
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title e	lection:	2012				Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication		
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication		
Magi	ster thesis		1994	Faculty of Mechanical E	ngineering - Be	eograd	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication		
Bach	elor's thesis	8	1987	Faculty of Technical Science	ences - Novi S	ad	Machine Elements,Construction Principles, Machine and Mechanizm Theory, Power and Motion Transfer and Eng.Communication		
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.	H306	Machir	ne Mechani	cs		(H00) Mec	hatronics, Undergraduate Academic Studies		
2.	M208	Theory	/ of Mechar	iisms and Machines		Undergrad	chanization and Construction Engineering, uate Academic Studies chnical Mechanics and Technical Design,		
							uate Academic Studies		
3.	M2409	Power and Motion Transmission				(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies			
4.	M2410	Mecha	inism Synth	esis		(M20) Mechanization and Construction Engineering Undergraduate Academic Studies			
	-					(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies			
5.	M2525	Mecha	inisms			( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies			
6.	S012	Descri	ptive Geom	etry and Engineering Dra	wing	<ul> <li>(S00) Traffic and Transport Engineering, Undergraduate Academic Studies</li> <li>(S01) Postal Traffic and Telecommunications,</li> </ul>			
					Undergraduate Academic Studies				
7.	H570	Mecha	inisms in M	echatronics		(H00) Mechatronics, Master Academic Studies			
8.	M2653	Power Machir		n Transmission in Agricultu	ural	(M22)Meo Academic	chanization and Construction Engineering, Master Studies		
9.	H797			nechanization - advanced	•	· ,	chatronics, Master Academic Studies		
10.	DM215			s in Machine and Mechan		, ,	chanical Engineering, Doctoral Academic Studies		
11.	DM409			in Power and Motion Trar	nsmission	( M00) Meo	chanical Engineering, Doctoral Academic Studies		
Rep			,	num 5, not more than 10)					
1.	CENTRC	DES, M , Editoria	lanufacturin	ig Intelligent Design and C	Optimization Pro	ocesses, Jo	GONAL HOLES DRILLING APPLYING urnal of Machine Engineering,Vol 7, No 2, 2007, Federation NOT, Wroclaw, Poland, 2007, ISSN		
2.	Sorli, M.,	Ferrare		rski (Cavic), M., Borovac, 32, No. 1, pp. 51-77, ISSN		ić, M.: Mech	nanics of turin parallel robot, Mechanism and		
3.	Kolarski ( of balanc	(Cavic), ed robo	M., Vukobr	atović, M., Borovac, B.: Dy ms, Mechanism and Mach	ynamic analysi				
4.							PLANAR MECHANISM, 12th IFToMM World mm.org, www.iftomm2007.com		
5.	skupa: 12	2th IFTo	MM World				SKINEMATIC GROUP MECHANISMS Naziv and Machine Science - IFToMM, Besancon, 18-21		



5	TAS STUD		UNIVERSITY OF NO	OVI SAD		WHKMX Ha		
OR		FACULTY OF TECHNICAL SCI	ENCES 21000 NOV	SAD, TRG DO	SITEJA OBRADOVIĆA 6			
0.2		Study F	Study Programme Accreditation					
.0	LANTEN	MASTER ACADEMIC STUDIES			Mechatronics	HO		
Re	Representative refferences (minimum 5, not more than 10)							
6.	Zlokolica, M., Cavic, M., Kostic, M.: Analytical description of polygonal holes boring - General approach, Strojniski Vestnik - Journal of Mechanical Engineering, 2010, Vol. 56, No. 7-8, pp. 511-520, ISSN: 0039-2480.							
7.	Kostić M., Čavić M., Zlokolica M., Veselinović Č.: ABOUT DRIVING-TRANSMISSION SYSTEMS IN THERMOFORMING MACHINES, 2. Power Transmissions, Novi Sad, 25-26 April, 2006, pp. 509-514, ISBN 86-85211-78-6							
8.	Čavić M.: M 2012	MODULARNI PRISTUP ANALIZI I S	SINTEZI MEHANIZAI	MA SA KINEMA	TIČKIM GRUPAMA VIŠE KL	ASE, Novi Sad,		
9.		ostić M., Zlokolica M.: Dynamical C SBN 978-86-7892-105	Condition for Mechan	ism Synthesis, I	Monografija Machine Design,	2008, pp. 109-		
10.	Kostić M., Čavić M., Zlokolica M.: PERFORMANCE OF LEVER-CAM DWELL MECHANISM, Machine Design, 2009, pp. 115-120, ISSN 1821-1259							
Su	mmary data fo	r teacher's scientific or art and profe	essional activity:					
Quo	tation total :		0					
Tota	I of SCI(SSCI)	list papers :	3					
Curr	ent projects :		Domestic :	0	International :	0		



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

	e and last n	ame:			Čuš Franci				
	emic title:				Guest Profes	sor			
	e of the inst ng date:	titution v	vhere the te	eacher works full time and	-				
	ntific or art f	ield:			Proizvodni si	stemi, organ	izacija i menadžment (menađment inovacija i		
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	lection:	2009				Proizvodni sistemi, organizacija i menadžment (menađment inovacija i promena)		
PhD	thesis		1988	Faculty of Mechanical E	ngineering - M	aribor	Processes for Material Removal Processing		
Magi	ster thesis		1985	Faculty of Mechanical E	ngineering - M	aribor	Processes for Material Removal Processing		
Bachelor's thesis 1978 Faculty of Mechanical E			Faculty of Mechanical E	ngineering - M	aribor	Mechanical Engineering			
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID Course name				Study pro	ogramme name, study type			
1.	Z421	Opera	cioni mena	džment(uneti naziv na eng	gleskom)	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
2	ll1053	Droduk	ation Svoto	<b>m</b> 0		( F00) Gra Academic	phic Engineering and Design, Undergraduate Studies		
2.	111003		ction Syster	110		( P00) Pro Studies	duction Engineering, Undergraduate Academic		
3.	IM1114	Energy Flows in the Enterprise				(I20) Engir Studies	neering Management, Undergraduate Academic		
4.	ZR401A	Scienc	e on Work			<u> </u>	Safety at Work, Undergraduate Academic Studies		
5.	HDOK4 S	Selected chapters from automation of work			processes	( I12) Indu	(112) Industrial Engineering, Specialised Academic Studies		
6.	IMDR0S	Selected chapters in enterprise's design, or and control			ganization	<ul> <li>(112) Industrial Engineering, Specialised Academic Studies</li> <li>(122) Engineering Management, Specialised Academic Studies</li> </ul>			
7.	ZR502	Occupational Risk Assessment					ety at Work, Master Academic Studies		
						(I10) Industrial Engineering, Master Academic			
8.	IM2102	Manufa EFPS)		ategy (KAIZEN, LEAN, KA			(M50) Energy Management, Master Academic Studies		
		LIF3)				(I20) Engineering Management, Master Academic Stu			
9.	IM2124	Produc	ction and S	ervice Systems		(H00) Mechatronics, Master Academic Studies			
<u>.</u>	11112 12-1	TTOUL				(M50) Energy Management, Master Academic Studies			
10.	IM2207		ology mana			<u> </u>	20) Engineering Management, Master Academic Studies		
11.	IM2215	Value	engineering	]			neering Management, Master Academic Studies		
12.	HDOK-4	Select	ed Chapter	s in Production Process A	utomation	<ul> <li>(H00) Mechatronics, Doctoral Academic Studies</li> <li>(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies</li> </ul>			
10	HDOKL4	Sala at	od oborter	s from automation of work	process		cademic Studies		
13. 14.	IMDR57	Strateg	gic Planning	g and Designing Procedur		( 120) Indu	strial Engineering / Engineering Management,		
15.	ZRD27A	Operat		nd of Product Lifecycle gement in the security and	d occupational		cademic Studies ety at Work, Doctoral Academic Studies		
16.	ZRD28A	safety Selecte	ed topics in	the science of occupation	nal safetv	(Z01) Safe	ety at Work, Doctoral Academic Studies		
			•	num 5, not more than 10)		,, can			
1.		inc, BAL	IČ, Jože. C	. ,	cess by GA app	oroach. Rob	ot. computintegr. manuf [Print ed.], 2003, vol.		
2.	ČUŠ, Fra	inc, MUI			ological inform	ation syster	ns. J. mater. process. technol [Print ed.], Dec.		
3.				, MILFELNER, Matjaž. Dy October 2006, vol. 35, no			roach for tool cutting force modelling of end milling SI-ID 10604310]		
4.				/latjaž, BALIČ, Jože. An in [Print ed.], June 2006, vol.			ring and optimization of ball-end milling process.		
5.				, KIKER, Edvard, MILFEL v. Mater. Manuf. Eng., Jul			ntroller design for feedrate maximization of /2, str. 237-240.		



4	TAS STUR		UNIVERSITY OF NO	VI SAD		WIKHX W.		
ALL DIO		FACULTY OF TECHNICAL SCI	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
U. N		Study F	Programme A	ccreditatio	on	Con Participation		
.01	LANTER	MASTER ACADEMIC STUDIES			Mechatronics	HO		
Rep	Representative refferences (minimum 5, not more than 10)							
6.	ČUŠ, Franc, ŽUPERL, Uroš. Approach to optimization of cutting conditions by using artificial neural networks. J. mater. process. technol [Print ed.], 2006, vol. 173, iss. 3, str. 281-290.							
7.	ČUŠ, Franc, BALIČ, Jože, ŽUPERL, Uroš. Hybrid ANFIS-ants system based optimisation of turning parameters. J. Achiev. Mater. Manuf. Eng., Sep. 2009, vol. 36, iss. 1, str. 79-86.							
8.		dolf, ČUŠ, Franc. Vpliv toplotne ob 3. [COBISS.SI-ID 3324444]	delave na obdelovalno	ost materialov pri	vrtanju. Stroj. vestn., 1983,	let. 29, št. 10-12,		
9.	ŠOSTAR, A 30, št. 9-10	dolf, ČUŠ, Franc. Načrtovanje prei , str. 197-203. [COBISS.SI-ID 3324	zkusov in izračun eksp 700]	oonentov za optim	niranje odrezovanja. Stroj. v	estn., 1984, let.		
10.	ČUŠ, Franc. Odvisnosti in zakonitosti postopka čelnega frezanja. Stroj. vestn., 1986, 32, št. 4/6, str. 60-63. [COBISS.SI-ID 94468]							
Sur	mmary data fo	r teacher's scientific or art and profe	essional activity:					
Quot	tation total :		21					
Tota	I of SCI(SSCI)	list papers :	28					
Current projects : Domestic : 0 International : 1					1			



## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Name and last name:					Ćosić P. Ilija			
	lemic title:				Full Professor			
		itution	whore the t-	acher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:	ILULION V	vnere the te	acher works full time and	22.12.1972			
	ntific or art f	ield <sup>.</sup>			Production Systems, Organization and Management			
	lemic carie		Year	Institution	Field			
	lemic title el		1993	Faculty of Technical Sci	ences - Novi S	ad	Production Systems, Organization and Management	
PhD	thesis		1983	Faculty of Technical Sci	ences - Novi S	ad	Production Systems, Organization and Management	
Magi	ster thesis		1979	Faculty of Technical Sci	ences - Novi S	ad	Production Systems, Organization and Management	
Bach	elor's thesis	S	1972	Faculty of Mechanical E	ngineering - No	ovi Sad	Mechanical 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.	M316	Produc	ction Syster	ns		Studies	desy and Geomatics, Undergraduate Academic	
							uate Academic Studies	
2.	II1017	Production System Design				Studies	strial Engineering, Undergraduate Academic	
3.	II1053	Production Systems				Academic	phic Engineering and Design, Undergraduate Studies duction Engineering, Undergraduate Academic	
						Studies		
4.	4. IM1027 Productio		roduction systems			Studies	neering Management, Undergraduate Academic	
		Troud				Undergrad	asurement and Control Engineering, uate Academic Studies	
						Studies	desy and Geomatics, Undergraduate Academic	
5.	IM1039	Fundamentals of Operations management				<ul> <li>(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies</li> <li>(ZC0) Clean Energy Technologies, Undergraduate</li> </ul>		
						Academic	Studies	
						( ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies		
6.	IM1116	Work 9	Study and E	raonomics		( I10) Indu: Studies	strial Engineering, Undergraduate Academic	
υ.		VVOIK	Study allu E			(I20) Engir Studies	eering Management, Undergraduate Academic	
7.	ZR401A	Scienc	e on Work			(Z01) Safe	ety at Work, Undergraduate Academic Studies	
8.	IMDR0S	Selecter and co		s in enterprise's design, or	ganization	· ,	strial Engineering, Specialised Academic Studies neering Management, Specialised Academic	
9.	IMDSPI	Select	ed Chanter	s in Design for Excellence	<u> </u>		strial Engineering, Specialised Academic Studies	
9.		Selected Chapters in Design for Excellence				, ,	neering Management, Specialised Academic Studies	
10.	IS001	Effecti	ve manage	ment		Studies (IB0) Engi	neering Management - MBA, Specialised	
						Profession		
11.	ZR502			Assessment			ety at Work, Master Academic Studies	
12.	IIDS5	and co		in enterprise's design, or	ganization	( I12) Indu	strial Engineering, Specialised Academic Studies	
13.	IIDS9			on and Service Systems		(112) Industrial Engineering, Specialised Academic Studies (122) Engineering Management, Specialised Academic Studies		

# HE TAS STUDIORUM

UNIVERSITY OF NOVI SAD

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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

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

List o	ist of courses being held by the teacher in the accredited study programmes							
	ID	Course name		Study program	me name, study type			
14.	IM2101	Intelligent Enterprising and Effective	Management		lanagement, Master Acader g Management, Master Aca			
15.	IM2102	Manufacturing strategy (KAIZEN, LE EFPS)	EAN, KANBAN,	<ul> <li>(110) Industrial Engineering, Master Academic Studies</li> <li>(M50) Energy Management, Master Academic Studies</li> <li>(I20) Engineering Management, Master Academic Studies</li> </ul>				
16.	IM2119	Layout and location of the enterprise (120) Engineering Management, Master Academic Studie						
17.	IM2124	Production and Service Systems		(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies				
18.	IMDR0	Science of Industrial Engineering an	d Management	· · · · · · · · · · · · · · · · · · ·	Engineering / Engineering M			
19.	IMDR31	Effective Production and Service Sy	stems	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,		
20.	IMDR56	Traceability of Product Lifecycle	Engineering / Engineering M nic Studies	anagement,				
21.	IMDR57	Strategic Planning and Designing Pr Systems at the End of Product Lifed		(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,		
22.	IMDRPI	Selected Chapters in Design for Exc	allence	( F00) Graphic E Studies	ngineering and Design, Doo	ctoral Academic		
22.			( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
23.	IMDR5	Selected chapters in enterprise's dea and control	(120) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
24.	IMDR85	Effective technological and production		(120) Industrial Engineering / Engineering Management, Doctoral Academic Studies				
25.	ZRD27A	Operations management in the secu safety	rity and occupational	(Z01) Safety at	Work, Doctoral Academic St	tudies		
26.	ZRD28A	Selected topics in the science of occ	upational safety	(Z01) Safety at	Work, Doctoral Academic St	tudies		
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.		Development of Knowledge-Based S ent of Parts Bins at Assembly Workpla				d Selection arid		
2.		ć D., Ćosić I., Šormaz D., Šišarica Z.: f Production Research, 1987, Vol. 25			ective production systems ,	International		
3.		Stevanov B., Ćosić I., Anišić Z., Sren Furniture Manufacturing, Strojniski ve				logy: A Case		
4.	product t	ć M., Ostojić G., Ćosić I., Stankovski S racking based on radio-frequency ider -4787, ISSN 1992-2248	S., Vukelić Đ., Zečević htification (RFID) techr	I.: Product lifecy nology, Scientific I	cle management (PLM) met Research and Essays, 2011	hodology for , Vol. 6, No 22,		
5.		Lalić D., Ćosić I., Mitrović V.: Integra cal Engineering, 2010, Vol. 56, No 3, p			op control, Strojniski vestnik	= Journal of		
6.		ki S., Lazarević M., Ostojić G., Ćosić ssembly Automation, 2009, Vol. 29, N			ct/Part Tracking During the V	Whole Life		
7.		Lazarević M., Šooš L., Onderova I.: F nauka, FTN Grafički centar GRID, 20			ntaža i reciklaža, Novi Sad,	Fakultet		
8.		ć D., Ćosić I., Maksimović R.: IIM - pr 125-133, ISSN 0040-2176, UDK: 322		h proizvodnih sist	ema za budućnost, Tehnika	, 2010, Vol. 65,		
9.		Ćosić I., Anišić Z.: SIMULATION BAS nal journal of Simulation Modelling-IJ				EMS ,		
10.		Ćosić I., Poli M.: Project Strategy Mat f Industrial Engineering and Managen				International		
Sur		for teacher's scientific or art and profe						
Quot	ation total :		96					
		CI) list papers :	15					
Curre	urrent projects : Domestic : 2 International : 2					2		



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Nam	Name and last name: Dorić Ž. Jovan								
	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:				01.10.2008				
Scier	ntific or art f	ield:			Internal Combustion Engines				
Academic carieer Year Institution					Field				
Acad	lemic title e	lection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Internal Combustion Engines		
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Internal Combustion Engines		
Mast	er's thesis		2008	Faculty of Technical Sci	ences - Novi S	ad	Internal Combustion Engines		
Bachelor's thesis 2008					Internal Combustion Engines				
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	H2421	EC En	ginees Med	chatroncis		( H00) Med	chatronics, Undergraduate Academic Studies		
2.	M213	Machi	ne Usage				chanization and Construction Engineering, uate Academic Studies		
3.	M2403A	IC Eng	jines				chanization and Construction Engineering, uate Academic Studies		
4.	M2523	IC Eng	jine Equipn	nent		( S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies		
5.	M302	Funda	mentals of	IC Engines			chanization and Construction Engineering, uate Academic Studies		
6.	S0I241	Interna	al Combusti	on Engines			Traffic and Transport Engineering, Undergraduate mic Studies		
7.	M2514	Simulation and design of IC engines				(M22)Meo Academic	chanization and Construction Engineering, Master Studies		
8.	M2519	IC Engines and Vehicle Testing				(M22)Mee Academic	chanization and Construction Engineering, Master Studies		
9.	M2553	Select	ed Chapter	s of IC Engines and Motor	r Vehicles	(M22)Mee Academic	chanization and Construction Engineering, Master Studies		
10.	LIM14	Monito	oring and Di	agnostics of Transportation	on Means	( LIM) Logistic Engineering and Management, Master Academic Studies			
11.	H797	Mecha	tronics in n	nechanization - advanced	topics	(H00) Med	chatronics, Master Academic Studies		
12.	DM420	Select	ed Chapter	s – Internal Combustion (I	C) Engines	( M00) Mechanical Engineering, Doctoral Academic Studies			
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.				of a new IC engine conce ISSN 0354-9836.	ept with variable	e piston mot	ion, Thermal Science, 2012, doi:		
2.				characteristics of a new 0 530158D, ISSN 0354-983		t Volume Co	mbustion spark ignition engine, Thermal Science,		
3.			The realis		ew thermodyna	mic cycle fo	r internal combustion engine, Thermal Sciencel,		
4.				bezventilski motor SUS s 8, str. 1639-1640, ISBN 0			og tela, Beograd, Zavod za intelektualnu svojinu		
5.	Dorić J., 104, ISSI			Constant Volume Combus	stion Cyle for I	C Engines, F	ME Transactions, 2011, Vol. 29, No 3, pp. 97-		
6.				<ul> <li>J.: Uporedni prikaz dva a</li> <li>IK-14 - Istraživanje i razvo</li> </ul>			sanja polarnog dijagrama opterećenja glavnih 3-10, ISSN 0354-6829.		
7.				ić Ž., Dorić J.: An Algorith , 2011, Vol. 39, No 4, pp.			al Wear Diagram of IC Engine Crankshaft Main		
8.				of a Valveless IC engine gue, 14-16 Septembar, 20		plete expan	sion, 1. International Conference on Innovative		
9.	ACTUAL	TASKS	ON AGRIC				ry, 39. 39th INTERNATIONAL SYMPOSIUM: agrebu Agronomski Fakultet, Hrvatska, 22-25		
10.	Nikolić N. Torović T. Antonić Ž. Dorić I. A Comparative Approach to the Load Determination of IC Engine Main Bearings. 7								
Sur	nmary data	for tead	her's scien	tific or art and professiona	activity:				
Quot	ation total :			0					



SITAS STUD		UNIVERSITY OF NOVI SAD						
No RI	FACULTY OF TECHNICAL SCI	STATE .						
12000	Study F	on	Col					
PLANTER	MASTER ACADEMIC STUDIES			Mechatronics	HO			
Total of SCI(SSCI	) list papers :	3						
Current projects :		Domestic :	2	International :	0			



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

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 art field:       Mechatronics, Robotics and Automation and Intelligent Systems         Academic title election:       2012       Faculty of Technical Sciences - Novi Sad         PhD thesis       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automation and Intelligent Systems         Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automat Intelligent Systems         Bachelor's thesis       1999       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         Ib       Courses being held by the teacher in the accredited study programmes       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programme name, study type       1.       H102         1.       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological	Dudić P. Slobodan			
Name of the institution where the teacher works full time and starting date:         Faculty of Technical Sciences - Novi Sad           Scientific or art field:         Mechatronics, Robotics and Automation and Intelligent Systems           Academic carieer         Year         Institution         Field           Academic carieer         Year         Institution         Field           Academic title election:         2012         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           PhD thesis         2012         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           Magister thesis         1999         Faculty of Technical Sciences - Novi Sad         Production Systems, Organization an Management           Bachelor's thesis         1995         Faculty of Technical Sciences - Novi Sad         Production Systems, Organization an Management           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type           1.         H102         Fundamentals in Product Development         (H00) Mechatronics, Undergraduate Academic S           2.         H1401         Material Handling Technologies         (H00) Mechatronics, Undergraduate Academic S           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Acad				
starting date:       21.08.1995         Scientific or art field:       Mechatronics, Robotics and Automation and Intelligent Systems         Academic carieer       Year       Institution       Field         Academic title election:       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automatintelligent Systems         PhD thesis       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automatintelligent Systems         Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automatintelligent Systems         Bachelor's thesis       1995       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programmes       Production Systems, Organization an Management         1       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         4.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technologica				
Academic carieer         Year         Institution         Field           Academic title election:         2012         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automat Intelligent Systems           PhD thesis         2012         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automat Intelligent Systems           Magister thesis         1999         Faculty of Technical Sciences - Novi Sad         Production Systems, Organization an Management           Bachelor's thesis         1995         Faculty of Technical Sciences - Novi Sad         Production Systems, Organization an Management           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type           1.         H102         Fundamentals in Product Development         (H00) Mechatronics, Undergraduate Academic S           2.         H1401         Material Handling Technologies         (H00) Mechatronics, Undergraduate Academic S           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic S           5.         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic S           6.         II1011         Automation of work processes 1         (110) Industrial Engineering, Undergraduate Academic S           7.         II103         Materia				
Academic title election:       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automat Intelligent Systems         PhD thesis       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automat Intelligent Systems         Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automat Intelligent Systems         Bachelor's thesis       1995       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programmes       Production Systems, Organization an Management         1.       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packagin				
Academic title election:       2012       Paculty of Technical Sciences - Novi Sad       Intelligent Systems         PhD thesis       2012       Faculty of Technical Sciences - Novi Sad       Mechatronics, Robotics and Automat Intelligent Systems         Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         Bachelor's thesis       1995       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programmes       Production Systems, Organization an Management         10       Course name       Study programme name, study type         1.       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H10) Industrial Engineering, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S <td></td>				
Prior tries       2012       Paculity of Technical Sciences - Novi Sad       Intelligent Systems         Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         Bachelor's thesis       1995       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programmes       Production Systems, Organization an Management         1       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1084       Automation of work processes 2       (110) Industrial Engineering, Undergraduate	on and			
Magister thesis       1999       Faculty of Technical Sciences - Novi Sad       Management         Bachelor's thesis       1995       Faculty of Technical Sciences - Novi Sad       Production Systems, Organization an Management         List of courses being held by the teacher in the accredited study programmes       Study programme name, study type         I       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1042       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S	on and			
Bachelor's thesis       1995       Paculity of Technical Sciences - NoV Sad       Management         List of courses being held by the teacher in the accredited study programmes       Study programme name, study type         ID       Course name       Study programme name, study type         1.       H102       Fundamentals in Product Development       (H00) Mechatronics, Undergraduate Academic S         2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S         10.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2 </td <td>d</td>	d			
IDCourse nameStudy programme name, study type1.H102Fundamentals in Product Development(H00) Mechatronics, Undergraduate Academic S2.H1401Material Handling Technologies(H00) Mechatronics, Undergraduate Academic S3.H1403Automation of work processes(H00) Mechatronics, Undergraduate Academic S4.H1504Computer Integration of Production Systems(H00) Mechatronics, Undergraduate Academic S5.H310Components of technological systems(H00) Mechatronics, Undergraduate Academic S6.II1011Automation of work processes 1(110) Industrial Engineering, Undergraduate Academic S7.II1013Material Handling Technologies(110) Industrial Engineering, Undergraduate Academic S8.II1023Packaging technology(110) Industrial Engineering, Undergraduate Academic S9.II1038Automation of work processes 2(110) Industrial Engineering, Undergraduate Academic S10.II1042Automation of Continual Processes(110) Industrial Engineering, Undergraduate Academic S	d			
1.H102Fundamentals in Product Development(H00) Mechatronics, Undergraduate Academic S2.H1401Material Handling Technologies(H00) Mechatronics, Undergraduate Academic S3.H1403Automation of work processes(H00) Mechatronics, Undergraduate Academic S4.H1504Computer Integration of Production Systems(H00) Mechatronics, Undergraduate Academic S5.H310Components of technological systems(H00) Mechatronics, Undergraduate Academic S6.II1011Automation of work processes 1(110) Industrial Engineering, Undergraduate Academic S7.II1013Material Handling Technologies(110) Industrial Engineering, Undergraduate Academic S8.II1023Packaging technology(110) Industrial Engineering, Undergraduate Academic S9.II1038Automation of work processes 2(110) Industrial Engineering, Undergraduate Academic S10.II1042Automation of Continual Processes(110) Industrial Engineering, Undergraduate Academic S				
2.       H1401       Material Handling Technologies       (H00) Mechatronics, Undergraduate Academic S         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         4.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Academic S				
3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         4.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Academic S	tudies			
3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic S         4.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (I10) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (I10) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (I10) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (I10) Industrial Engineering, Undergraduate Academic S         10.       II1042       Automation of Continual Processes       (I10) Industrial Engineering, Undergraduate Academic S				
4.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic S         5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Academic S				
5.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic S         6.       II1011       Automation of work processes 1       (110) Industrial Engineering, Undergraduate Academic S         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Academic S         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Academic S         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Academic S         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Academic S				
6.       II1011       Automation of work processes 1       (10) Industrial Engineering, Undergraduate Acad Studies         7.       II1013       Material Handling Technologies       (110) Industrial Engineering, Undergraduate Acad Studies         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Acad Studies         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Acad Studies         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Acad Studies				
7.       Inforts       Naterial Handling Technologies       Studies         8.       II1023       Packaging technology       (110) Industrial Engineering, Undergraduate Acad Studies         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Acad Studies         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Acad Studies				
8.       ITTO23       Packaging technology       Studies         9.       II1038       Automation of work processes 2       (110) Industrial Engineering, Undergraduate Acad Studies         10.       II1042       Automation of Continual Processes       (110) Industrial Engineering, Undergraduate Acad Studies	lemic			
10.     II1042     Automation of Continual Processes     Studies       10.     II1042     Automation of Continual Processes     (110) Industrial Engineering, Undergraduate Acad Studies	lemic			
Introduction     Studies	lemic			
	lemic			
11.     IM1114     Energy Flows in the Enterprise     (I20) Engineering Management, Undergraduate A Studies	cademic			
12.       H505       Implementation of automated systems       ( H00) Mechatronics, Master Academic Studies         ( 110) Industrial Engineering, Master Academic St	udies			
13. HDOK4 S Selected chapters from automation of work processes (112) Industrial Engineering, Specialised Academ	ic Studies			
14. I829 Automation of packaging processes (110) Industrial Engineering, Master Academic St	udies			
15.       1830       Energy efficiency of compressed air systems       (110) Industrial Engineering, Master Academic St				
(110) Industrial Engineering, Master Academic St				
16.       PLM02       Product Development and Management in PLM       (110) Industrial Engineering - Product Lifecycle N         and Development, Master Academic Studies				
17.         PLM04         Sustainable Production and LCA         ( I1U) Industrial Engineering - Product Lifecycle M and Development, Master Academic Studies	lanagement			
18.     LIM34     Material Handling     ( LIM) Logistic Engineering and Management, Ma Academic Studies				
19.     NIT02     Factory Automation     (NIT) Industrial Engineering - Advanced Engineering - Engineering - Advanced -	ring			
20.         NIT05         Advanced Technology for Material Handling         ( NIT) Industrial Engineering - Advanced Enginee           Technologies, Master Academic Studies	ring			
21. BMIM4C Fluid filtration and separation (BM0) Biomedical Engineering, Master Academic	Studies			
22. I911 Sustainable production (110) Industrial Engineering, Master Academic St	udies			
23. IIDS27 Selected chapters of the energy efficiency of automated (112) Industrial Engineering, Specialised Academ				
24. IIDS6 Selected chapters in automation (112) Industrial Engineering, Specialised Academ	ic Studies			



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List o	List of courses being held by the teacher in the accredited study programmes							
	ID	Course name		Study program	ne name, study type			
25.	IM2103	New technologies in engineering and	d management	. ,	Engineering, Master Academ g Management, Master Acad			
26.	IMDR86	Selected chapters from energy effici air systems	ency of compressed	<b>`</b> ,	nics, Doctoral Academic Stu Engineering / Engineering Ma nic Studies			
27.	IMDR80	30 Selected chapters in automation (120) Industrial Engineering / Engineering Management, Doctoral Academic Studies						
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.	1. Šešlija D., Ignjatović I., Dudić S.: Increasing the Energy Efficiency in Compressed Air Systems, Rijeka, InTech, 2012, str. 151- 174, ISBN 978-953-51-0800-9							
2.	Dudić S., Ignjatović I., Šešlija D., Blagojević V., Miodrag S.: Leakage quantification of compressed air using ultrasound and infrared thermography, MEASUREMENT, 2012, Vol. 45, No 7, pp. 1689-1694, ISSN 0263-2241							
3.	Ignjatović I., Šešlija D., Tarjan L., Dudić S.: Wireless sensor system for monitoring of compressed air filters, Journal of Scientific and Industrial Research (JSIR), 2012, Vol. 71, No 5, pp. 334-340, ISSN 0022-4456							
4.	Jocanović M., Šević D., Karanović V., Beker I., Dudić S.: Increased Efficiency of Hydraulic Systems Through Reliability Theory and Monitoring of System Operating Parameters, Strojniški vestnik - Journal of Mechanical Engineering, 2012, Vol. 58, No 4, pp. 281-288, ISSN 0039-2480							
5.		Ignjatović I., Šešlija D., Blagojević V. sion, Thermal Science, 2012, Vol. 16,			n of compressed air on pip	bes using		
6.		., Ignjatović I., Dudić S., Lagod B.: Po Management, 2011, Vol. 5, No 14, p			ir systems in Serbia, African	Journal of		
7.		ć V., Šešlija D., Stojiljković M., Dudić ding mode, Sadhana - Academy Proc				pass valve and		
8.	and Engi	., Ignjatović I., Dudić S.: Compressed neering of Serbia, Soko Banja: Univer 8-21 Oktobar, 2011, pp. 649-658, ISB	sity of Nis, Faculty of I					
9.		., Dudić S., Ignjatović I.: Cost effectiv nal Scientific Conference "Flexible Te						
10.	Dudić S., Ignjatović I., Šešlija D.: Usage of non-destructive methods in compressed air system, 15. International Scientific							
	•	for teacher's scientific or art and profe	· · · · · ·					
	ation total :		0					
	,	CI) list papers :	6 Domestic :	0	International :	0		
Curre	rrent projects : 0 International : 0							



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Name and last name:					Đurić M. Nikola			
Academic title:			Assistant Professor					
		itution w	here the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
starti	ng date:				01.10.1997			
Scier	ntific or art f	ield:		í	Theoretical Electrotechnics			
Academic carieer Year Institution				Institution			Field	
Acad	emic title el	ection:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Theoretical Electrotechnics	
PhD	thesis		2009	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering	
Magi	ster thesis		2003	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering	
Bach	elor's thesis	S	1997	Faculty of Technical Sci	ences - Novi Sa	ad	Electrical and Computer Engineering	
List c	of courses b	eing hel	d by the te	acher in the accredited stu	idy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	E216	Funda	mentals of	Electrical Engineering		Àcadémic	ver Software Engineering, Undergraduate	
2.	EE300	Electro	magnetics				er, Electronic and Telecommunication g, Undergraduate Academic Studies	
3.	H104	Funda	mentals of	Electrical Engineering 1		(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H108	Funda	mentals of	Electrical Engineering 2		(H00) Med	chatronics, Undergraduate Academic Studies	
						Undergrad	chanization and Construction Engineering, luate Academic Studies	
						(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
5.	M112	Electric	cal Enginee	ering and Electric Machine	s		chnical Mechanics and Technical Design, uate Academic Studies	
0.		LIGOUN			0	(P00)Pro Studies	duction Engineering, Undergraduate Academic	
						(S00) Trat Academic	ffic and Transport Engineering, Undergraduate Studies	
							tal Traffic and Telecommunications, uate Academic Studies	
6.	E105	Funda	mentals of	Electrical Engineering 1		Èngineerin	ver, Electronic and Telecommunication g, Undergraduate Academic Studies	
0.	2100	T undu					asurement and Control Engineering, uate Academic Studies	
7.	E110	Funda	mentals of	Electrical Engineering 2			ver, Electronic and Telecommunication g, Undergraduate Academic Studies	
1.		i unudi		Lioundur Engineening Z		Undergrad	asurement and Control Engineering, uate Academic Studies	
8.	BMI94	Funda	mentals of	Electrical Engineering		Studies	medical Engineering, Undergraduate Academic	
9.	DE416S	Investi	gation of el	ectromagnetic fields		Èngineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
10.	DE517S	Techno	ology of ma	agnetic and optical data sto	orage	Èngineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies	
11.	EE543	Electro	Magnetic	Energy		Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies	
12.	E1IEP	Investi	nation of o	ectromagnetic fields		( MR0) Me Academic	asurement and Control Engineering, Master Studies	
12.		invest	yation of el				er, Electronic and Telecommunication g, Master Academic Studies	
13.	H799	Fieldbu	uses and p	rotocols		(H00) Med	chatronics, Master Academic Studies	
14.	H845	Motion	control			(H00) Mechatronics, Master Academic Studies		
15.	DE416	Investigation of electromagnetic fields				( 110) Industrial Engineering, Master Academic Studies ( E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies		

SPS1	TAS STUDIO		UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
inn-z		Study Programme Accreditation						
FO	LANTEN	MASTER ACADEMIC STUDIES	0		Mechatronics	HOBI		
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				
16.	DE517	Technology of magnetic and optical	data storage		ectronic and Telecommunic ctoral Academic Studies	ation		
Re	presentative	refferences (minimum 5, not more th	ian 10)					
1.	Durić N., Despotović M. : Application of MTR soft-decision decoding in multiple-head magnetic recording systems, Sadhana - Academy Proceedings in Engineering Science, 2009, Vol. 34, Broj 3, str. 381-392, ISSN 0256-2499							
2.	Durié S. Nad L. Dampianovié M. Durié N. Živanov Li .: A novel application of planar type meander sensors. Microelectronics							
3.	Đurić N., Kavecan N.: Internet Portal of the SEMONT Information Network for the EM Field Monitoring, 4. International Conference							
4.	4. Đurić N., Kavečan N., Kljajić D.: The EM Field Register of the SEMONT Broadband Monitoring Network, 10. SISY - International Symposium on Intelligent systems and Informatics, Subotica, 20-22 Septembar, 2012, pp. 27-30, ISBN 978-1-4673-4748-8							
5.		Šenk V.: The MAP Implementation i m - EMS, Malta, 14-16 Novembar, 2				ean Modeling		
6.		Prša M., Kasaš-Lažetić K.: Informatic ng Sciences - IJES, 2011, Vol. 1, No			etic Fields Monitoring, Interr	national Journal		
7.		ović B., Đurić N.: Monitoring of EMF v gnetics and bioeffects of electromag						
8.		, Đurić N., Herceg D.: Serbian Laws 10. International Conference on Appl						
9.	<ul> <li>Đurić N., Prša M., Kasaš-Lažetić K., Bajović V.: Serbian Remote Monitoring System for Electromagnetic Environmental Pollution,</li> <li>10. International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8</li> <li>Oktobar, 2011, pp. 701-704, ISBN 978-1-4577-2016-1</li> </ul>							
10.	<ul> <li>Đurić N., Šenk V., Vasić B.: MAP Decoding of MTR Codes in Multiple-Head Magnetic Recording Systems, 10. International</li> <li>Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS, Niš, 5-8 Oktobar, 2011, pp. 164-167, ISBN 978-1-4577-2018-5</li> </ul>							
		for teacher's scientific or art and prof						
	tation total :		0					
	``	CI) list papers :	2	0				
Curr	ent projects		Domestic :	3	International :	2		





Study Programme Accreditation

MASTER ACADEMIC STUDIES

## Mechatronics

# Science, arts and professional qualifications Name and last name: Erdeljan M. Aleksandar Academic title: Associate Professor

Academic title:					Associate Professor				
		titution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				24.07.1989				
Scier	ntific or art f	ield:			Automatic Control and System Engineering				
Acad	lemic caries	er	Year	Institution			Field		
Academic title election: 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 Eng	ineering - Beog	rad	Automatic Control and System Engineering		
Bach	elor's thesis	s	1989	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering		
List of courses being held by the teacher in the accredited stud			udy programme	S					
	ID	Course	e name			Study pro	gramme name, study type		
1.	E126	Syster	n Control, N	Nodeling and Simulation		· · ·	er, Electronic and Telecommunication g, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies		
						(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
2.	E232	System Modeling and Simulation				. ,	nical Mechanics and Technical Design, uate Academic Studies		
2.							asurement and Control Engineering, uate Academic Studies		
							tware Engineering and Information Technologies, uate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies		
3.	GI303A	Distrib	uted Syster	ns in Geomatics		( GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
4.	H213	Syster	n Modelling	and Simulation 1		( GI0) Geodesy and Geomatics, Undergraduate Academic Studies			
						, ,	0) Mechatronics, Undergraduate Academic Studies		
5.	BMI124	Syster	n Modeling	and Simulation		( BM0) Bio Studies	BM0) Biomedical Engineering, Undergraduate Academic tudies		
6.	E2312	Softwa	are desian f	or SCADA systems		Academic			
			- Seegn h			( SEL) Software Engineering and Information Technologie Loznica, Undergraduate Academic Studies			
7.	ESI001	Softwa	are Tools in	Power Engineering		Academic			
8.	ESI010	Basics	of control i	n power systems		(ES0) Pow	ver Software Engineering, Undergraduate Studies		
	201010	2000					er, Electronic and Telecommunication g, Undergraduate Academic Studies		
9.	ESI015	Distrib	uted Comp	uter Systems in Power Sy	stems	(ES0) Pov Academic	ver Software Engineering, Undergraduate Studies		
10.	SEAU02	SCAD	A Software				tware Engineering and Information Technologies, uate Academic Studies		
11.	SEAU09	Softwa	are design o	of SCADA systems		( SE0) Software Engineering and Information Technologie Undergraduate Academic Studies			
	0000					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	ver Software Engineering, Undergraduate Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

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

LISU		eing held by the teacher in the accred	nied study programme					
	ID	Course name		Study program	me name, study type			
				( E20) Computin Academic Studie	g and Control Engineering, es	Master		
13.	AU502	Distributed Control Systems		(MR0) Measurement and Control Engineering, Master Academic Studies				
					ectronic and Telecommunica ster Academic Studies	ation		
14.	H301	System Modeling and Symulation	nics, Master Academic Stuc	ies				
15.	S054	Computer Modelling and Simulation		(S01) Postal Tra Academic Studie	affic and Telecommunication	ns, Master		
16.	BMIM3D	Development of integrated biomedic	al systems	(BM0) Biomedic	al Engineering, Master Aca	demic Studies		
17.	E2532	Automatic Control Systems Project	Management	( E20) Computin Academic Studie	g and Control Engineering, es	Master		
18.	E2533	Discrete event simulation		( E20) Computin Academic Studie	g and Control Engineering, es	Master		
19.	E2535	Software Algorithms in Supervisory	Control and Data	( E20) Computin Academic Studie	g and Control Engineering, es	Master		
19.	L2000	Acquisition Systems			ectronic and Telecommunica ster Academic Studies	ation		
20.	ESI030	Distributed Software Architectures for Grids	or Smart Energy	( ES0) Power So Studies	oftware Engineering, Master	Academic		
21.	SEAM06	Integration of Distributed Control Sys	stems	( SE0) Software Engineering and Information Technologies Master Academic Studies				
22.	DAU006	Selected Chapters in Modeling and Solution Systems	Simulation of	( E20) Computin Academic Studie	g and Control Engineering,	Doctoral		
23.	DAU018	Selected Chapters in Distributed Co	ntrol Systems	(E20) Computing and Control Engineering, Doctoral Academic Studies				
24.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at	Work, Doctoral Academic S	tudies		
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.		, Erdeljan A., Popović D.: Algorithm f pl. 61, No. 3, 715-721 (2011). ISSN 0		jies in the Commo	on Information Model (CIM),	Computers		
2.		rić S., Erdeljan A., Čapko D., Lendak I cal neural network, International Jourr 33						
3.		., Erdeljan A., Švenda G., Popović M.: Electronics and electrical engineering				gement		
4.		ıkmirović S., Erdeljan A., Kulić F.: Hyl 2012, Vol. 16, No S, pp. 215-224, ISS		etwork System for	Short-Term Load Forecast	ng, Thermal		
5.	electrical	rić S., Erdeljan A., Čapko D., Lendak I engineering, 2011, Vol. 107, No 1, pp	o. 59-64, ISSN 1392-12	215				
6.		., Erdeljan A., Popović M., Švenda G.: f Advances in Electrical and Compute				nent Systems,		
7.		., Erdeljan A., Vukmirović S., Lendak I UTION MANAGEMENT SYSTEMS, Ir						
8.		rić S., Nedić N., Erdeljan A., Lendak I. Scheduling, Information technology a				System		
9.		rić S., Erdeljan A., Lendak I., Čapko D strial Research (JSIR), 2010, Vol. 201				al of Scientific		
10.		., Erdeljan A., Popović M., Švenda G.: 010, str. 555-558, ISBN 978-3-642-15		ship-Based Partiti	oning of Large Datasets, LN	CS, Springer		
		for teacher's scientific or art and profe	<b>,</b>					
	ation total :		1					
		CI) list papers :	9					
Curre	ent projects	:	Domestic :	3	International :	0		



## e Accreditation Mechatronics



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Name and last name:					Georgijević S. Milosav				
Acad	emic title:				Full Professo				
Nam	e of the inst	itution v	vhere the te	eacher works full time and	Faculty of Tee	chnical Scie	ences - Novi Sad		
starti	ng date:				01.02.1977				
Scier	ntific or art f	ield:			Machine Con	structions, 7	Transport Systems and Logistics		
Academic carieer Year Institution							Field		
Acad	emic title el	ection:	2000	University of Novi Sad -	Novi Sad		Machine Constructions, Transport Systems and Logistics		
PhD	thesis		1989	Faculty of Philosophy - N	Novi Sad		Machine Constructions, Transport Systems and Logistics		
Magi	ster thesis		1982	Faculty of Technical Scie	ences - Novi Sa	ad	Machine Constructions, Transport Systems and Logistics		
Bach	elor's thesis	6	1973	University of Novi Sad -	Novi Sad		Machine Constructions, Transport Systems and Logistics		
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	H2463	Mecha	nization Ma	anagement		(H00) Med	chatronics, Undergraduate Academic Studies		
2.	M2405	Wareh	ouses and	Equipment			chanization and Construction Engineering, luate Academic Studies		
3.	M308	Engine	eering Logis	stics and Simulation			chanization and Construction Engineering, luate Academic Studies		
4.	S0218	Reload	d Logistics			( S00) Traf Academic	ffic and Transport Engineering, Undergraduate Studies		
5.	S1218	Reload	d Logistics				tal Traffic and Telecommunications, luate Academic Studies		
6.	ZR407A	Occup wareh		ety in internal transport, rel	loading and	(Z01) Safe	ety at Work, Undergraduate Academic Studies		
7.	M2528	Eurolo	gistics			( M22) Me Academic	chanization and Construction Engineering, Master Studies		
						(H00) Mechatronics, Master Academic Studies			
8.	M2535	Logisti	c Processe	s Management		(M22) Me Academic	echanization and Construction Engineering, Master c Studies		
9.	LIM04	Interna	al Transport	t and Storage		( LIM) Logistic Engineering and Management, Master Academic Studies			
10.	LIM06	Simula	ation and O	ptimization in Logistics			I) Logistic Engineering and Management, Master lemic Studies		
11.	LIM15	Techn	ical Intralog	istics		( LIM) Logi Academic	istic Engineering and Management, Master Studies		
12.	LIM23	Logisti	c Centers			( LIM) Logi Academic	istic Engineering and Management, Master Studies		
13.	LIM27	Logisti	cs of Ware	housing and Commissioni	ng	( LIM) Logi Academic	istic Engineering and Management, Master Studies		
14.	LIM28	Intralo	gistic Syste	m Planning		( LIM) Logi Academic	istic Engineering and Management, Master Studies		
15.	LIM29	Simula	ation of Larg	ge Logistic Systems		( LIM) Logi Academic	istic Engineering and Management, Master Studies		
16.	H797			nechanization - advanced		(H00) Med	chatronics, Master Academic Studies		
17.	DM213	Conter Constr		ethods of Designing and M	lachine	( M00) Me	chanical Engineering, Doctoral Academic Studies		
18.	DM331		ed Chapter	s in Transport and Constru	uction	( M00) Me	chanical Engineering, Doctoral Academic Studies		
19. DOM20 Engineering Analysis Methods			( M00) Me	chanical Engineering, Doctoral Academic Studies					
20. DOM27 Logistics and Simulation				( M00) Me	chanical Engineering, Doctoral Academic Studies				
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.			nwendung 90, Nr.10, s		der dynamisch	en Analyse	von Hebezeugen, dhf - deutsche hebe und		
2.				der konstruktiven Lösung u 1. Nr. 6, s. 64-69	und Antriebsreo	gulierung au	If Dynamik von Hafenhebezeugen, dhf-deutsche		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Re	presentative	refferences (minimum 5, not more th	an 10)						
3.		ic M.: Einfluss der Wippantrieb-Regu technik, 1992, Nr. 3, s. 74-81	ulierung auf Lastpende	l und Dynamik vo	on Wippdrehe Krannen, dhf	- deutsche hebe			
4.	Georgijevic M, Milisavljevic B.: Pendeln des Containers bei der Katzenbewegung der Portalkrane, dhf - deutsche hebe und fördertechnik, 1994, Nr.9, s. 41-47								
5.	Georgijevi	Georgijevic M.: Zur Regelung und Steuerung bei Kranen, dhf- deutsche hebe und fördertechnik, Nr. 1/2-97, s. 58-64,							
6.	Georgijev	ić M.: Using Simulation in Material F	low Processes and Ma	achine Design, Si	mulation News Europe, Jul	y 2002, p.18,19			
7.	M. Georgijevic, R. Kostic, Erhöhung der Lebensdauer von Fördermaschinen durch mechatronische Systeme, 30. Tagung DVM – Arbeitskreis Betriebsfestigkeit Mechatronik und Betriebsfestigkeit - Stuttgart, 8. und 9. Oktober, 2003, s.139-163 (Predavanje po pozivu)								
8.		ic M, Radanovic R.: Simulation komp ungshilfe: Neuere Werkzeuge und A							
9.	Georgijev	ic M.: Fuzzy Control zur Regelung e	iner Krananlage, Erfol	gsbilanz fur Fuzzy	y Logik, Ausgburg, 1992				
10.		janic V, Georgijevic M, Bojanic,: Ap t Operation , ACTA POLYTECHNIC/				Ferminal			
Su	mmary data f	or teacher's scientific or art and profe	essional activity:						
Quot	tation total :		0						
Tota	I of SCI(SSC	I) list papers :	1	-					
Curr	ent projects :		Domestic :	2	International :	1			



# Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Nam	e and last n	ame:			Herakovič S. Niko				
	emic title:				Guest Profes				
		itution v	vhere the te	eacher works full time and					
	ng date:				01.01.2007	<u> </u>	· ·		
	ntific or art f	ield:				, Robotics a	nd Automation and Integral Systems		
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	ection:	2012				Mechatronics, Robotics and Automation and Integral Systems		
PhD	thesis		1995	University of Ljubljana -	Ljubljana		Mechanical Engineering		
Magi	ster thesis		1991	University of Ljubljana -	Ljubljana		Mechanical Engineering		
Bach	elor's thesis	5	1988	University of Ljubljana -	Ljubljana		Mechanization and Constructional Mechanical Engineering		
List c	of courses b	eing he	Id by the te	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	EOS19	Disma	ntling and r	ecycling technologies			er Engineering - Renewble Sources of Electrical dergraduate Professional Studies		
2.	H105			Computer science		(H00) Mec	chatronics, Undergraduate Academic Studies		
3.	H1410	Progra contro		application of programma	able logic	( H00) Mec	chatronics, Undergraduate Academic Studies		
4.	BMI106			vices and systems		( BM0) Bio Studies	medical Engineering, Undergraduate Academic		
5.	IM1116	Work Study and Ergonomics				Studies	strial Engineering, Undergraduate Academic eering Management, Undergraduate Academic		
6.	IMDS56	Produ	ct traceabili	ty during the lifetime			strial Engineering, Specialised Academic Studies		
7.		Strate	gic Planning	g and Designing Procedur	es and		strial Engineering, Specialised Academic Studies		
1.	IMDS57	Syster	ns at the E	nd of Product Lifecycle		· ,			
8.	IMDS93			s and Collaborative System	ms	Studies	ineering Management, Specialised Academic		
9.	H799		uses and p			· ,	chatronics, Master Academic Studies		
10.	H828	Advan	ced robotic	s		· ,	chatronics, Master Academic Studies		
11.	1907	Autom	ated Assen	nbly Systems for High Acc	curacy	·	chatronics, Master Academic Studies duction Engineering, Master Academic Studies		
12.	IIDS6	Select	ed chapters	s in automation		, ,	strial Engineering, Specialised Academic Studies		
						. ,	strial Engineering, Master Academic Studies		
13.	IM2102	Manuf EFPS)	acturing str	ategy (KAIZEN, LEAN, KA	ANBAN,		ergy Management, Master Academic Studies		
		LI F 3)	/			(I20) Engin	eering Management, Master Academic Studies		
4.4	INACACA	D	ation and C	ondoo Suctores		(H00) Mec	chatronics, Master Academic Studies		
14.	IM2124	Produ	cuon and So	ervice Systems		( M50) Ene	ergy Management, Master Academic Studies		
15.	IMDR56	Tracea	ability of Pro	oduct Lifecycle			strial Engineering / Engineering Management, cademic Studies		
16.	IMDR93	Virtual	Enterprise	s and Collaborative System	ms		strial Engineering / Engineering Management, cademic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	axial-noto	ched lon cher Lä	igitudinal sli	ide valves as example [Du	urchflusskennlir	nien für die v	es for valve simulation: Using the hydraulically /entilsimulation - Am Beispiel axialgekerbter sue 3, March 2012, Pages 27-31, ISSN:		
2.		f Sciend	ce and Tech				Medium-Sized Production Enterprises. Iranian 010 – Enclosure 6 – Certificate of the paper		
3.	= Analiza	vpliva i					uence on the characteristics of a pneumatic valve er. tehnol., 2010, letn. 44, št. 1, str. 37-40.		

c	TAS STU		UNIVERSITY OF NO	/I SAD		WAKNX 4	
	A DIO	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI S	SAD, TRG DOSIT	EJA OBRADOVIĆA 6	STATE	
200		Study F	Programme A	ccreditatio	on		
01	LANTER	MASTER ACADEMIC STUDIES			Mechatronics	HO	
Rep	presentative r	efferences (minimum 5, not more th	an 10)				
4.	axial and ra	acob D. van der, MINARIK, Martin, adial flow impellers. Acta chim. slov. OBISS.SI-ID 33809925]					
5.		IČ, Niko, ŠIMIC, Marko, TRDIČ, Fra gs. Mach. vis. appl., 2010, 15 str., do /245					
6.		IČ, Niko. Flow-force analysis in a hy iI-ID 10449691]	/draulic sliding-spool v	alve. Strojarstvo,	2007, letn. 49, št. 3, str. 117	-126.	
7.	Stroj. vestn	IČ, Niko. Računalniški in strojni vid n., 2007, letn. 53, št. 12, str. 858-873 , [JCR, WoS], 100/107			nachine vision in robot-base	d assembly.	
8.		IČ, Niko, NOE, Dragica. Analiza del If pilot-stage piezo-actuator valves.					
9.	composites	Gaceva, G., Dimeski, D., Heraković, s evaluated by differential scanning Engineering, Volume 30, Issue 2, IS	calorimetry and thermo	-gravimetric anal			
10.	HERAKOVIČ Niko DUHOVNIK Jožo NOE Dragica. Sila tropia v provinatičnom valju - Eriction force in the provination						
Sur	mmary data fo	or teacher's scientific or art and profe	essional activity:				
	tation total :		11				
	I of SCI(SSCI	) list papers :	13			·	
Curre	ent projects :		Domestic :	1	International :	3	





Mechatronics

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Nam	e and last n	amo.			Ivandić I. Želj	ko			
-	e and last n	ame.			Guest Profes				
		itution	whore the te	acher works full time and	- Guest Fibles	501			
	e of the inst ng date:	itution v	vnere the te	acher works full time and	-				
	ntific or art f	ield:			Mechatronics, Robotics and Automation and Integral Systems				
Acad	emic cariee	er	Year	Institution	-		Field		
Acad	emic title el	ection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Integral Systems		
PhD	PhD thesis 2002 Faculty of Mechanical Er Architecture - Zagreb		0 0		Mechanical Engineering				
Magister thesis 1996 Faculty of Mechanical En Architecture - Zagreb		0 0		Mechanical Engineering					
	elor's thesis		1990	Mechanical Engineering Slavonski Brod	-		Mechanical Engineering		
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es I			
	ID	Course	e name			Study pro	gramme name, study type		
1.	H102	Funda	mentals in I	Product Development		( H00) Med	chatronics, Undergraduate Academic Studies		
2.	H105	Funda	mentals in (	Computer science		(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H109	Funda	mentals in I	Programming		(H00) Med	chatronics, Undergraduate Academic Studies		
4.	H1409	-	ent System			(H00) Med	chatronics, Undergraduate Academic Studies		
5.	H1410	Progra contro		application of programma	able logic	( H00) Meo	chatronics, Undergraduate Academic Studies		
6.	H1501A	Syster	ns for Surva	ailance and Visualisation of	of Process	(H00) Med	chatronics, Undergraduate Academic Studies		
7.	H308	Indust	rial Robotics	3		(H00) Med	hatronics, Undergraduate Academic Studies		
8.	ll1015	Progra	ammable Lo	gic Controllers (PLC)		(110) Indus Studies	strial Engineering, Undergraduate Academic		
9.	ll1048	Artifici	al intelligen	ce in engineering		( I10) Indus Studies	strial Engineering, Undergraduate Academic		
10.	H301	Syster	n Modeling	and Symulation		(H00) Med	chatronics, Master Academic Studies		
11.	HDOS12	Resea techno		rea of automatic identifica	tion	( 112) Indus	2) Industrial Engineering, Specialised Academic Studies		
12.	HDOS13	Motior	n control and	d application of MEMS		( 112) Indus	112) Industrial Engineering, Specialised Academic Studies		
13.	HDOS14		dustrial auto			( 112) Indus	strial Engineering, Specialised Academic Studies		
14.	PLM09	Syster Cycle	ns and Dev	ices for Tracking Products	s Through Life		strial Engineering - Product Lifecycle Managemen opment, Master Academic Studies		
15.	NIT06	Advan	ced Techno	logies for Manufacturing	Support		strial Engineering - Advanced Engineering ies, Master Academic Studies		
16	H845	Motion	n control			( H00) Med	chatronics, Master Academic Studies		
16.	11043					( 110) Indu	strial Engineering, Master Academic Studies		
17.	1903	Applic	ation of mic	roelectromechanical syste	ems	( 110) Indu	strial Engineering, Master Academic Studies		
18.	IIDS6	Select	ed chapters	in automation		( 112) Indu	strial Engineering, Specialised Academic Studies		
19.	IM2516	Artifici	al Intelligen	ce in Engineering		(I20) Engin	neering Management, Master Academic Studies		
20.	IM2721			tion, alarming and warnin	-	(I20) Engin	neering Management, Master Academic Studies		
21.	HDOK12	Resea techno		rea of automatic identifica	tion	( H00) Meo	chatronics, Doctoral Academic Studies		
22.	HDOK13	Motion	n control and	d the application of MEMS	3	( H00) Med	chatronics, Doctoral Academic Studies		
23.	HDOK14	Non-in	dustrial Aut	omation		( H00) Mec	chatronics, Doctoral Academic Studies		
24. HDOK-3 Selected Chapters in Automation Systems Ir		Integration	( H00) Med	chatronics, Doctoral Academic Studies					
25.	HDOKL3	Select	ed Chapters	s in Automation Systems	Integration	( H00) Med	chatronics, Doctoral Academic Studies		
26.	HDOL12	Resea techno		rea of automatic identifica	tion	( H00) Meo	chatronics, Doctoral Academic Studies		
27.	HDOL13		-	nd application of MEMS		( 120) Indus	Mechatronics, Doctoral Academic Studies Industrial Engineering / Engineering Management, ral Academic Studies		

RSI	TAS STUD		UNIVERSITY OF NO		WHYTERE ALL				
NN C		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
0.75		Study Programme Accreditation							
.01	LANTER	MASTER ACADEMIC STUDIES		Ме	echatronics				
List o	of courses b	eing held by the teacher in the accred	lited study programme	s					
	ID	Course name		Study programme name, stud	ly type				
				(H00) Mechatronics, Doctoral Academic Studies					
28.	HDOL14	Nonindustrial automation		( I20) Industrial Engineering / E Doctoral Academic Studies	Engineering Management,				
Rep	oresentative	refferences (minimum 5, not more th	an 10)						
1.		K., Ohlídal, M., Valíček, J., Hloch, S., I ny by spectral analysis techniques (20			produced titan surfaces				
2.		., Ivandić, Z., Kontajić, P. Determinati pritiska v vročevodni cevi s korozijsk							
3.	Balicević, (1), pp. 31	P., Ivandić, Z., Kraljević, D. Tempera 1-34.	ture transitional pheno	omena in spherical reservoir wa	ll (2010) Tehnicki Vjesnik, 17				
4.		., Ergić, T., Kljajin, M. Welding robots 2009) Tehnicki Vjesnik, 16 (4), pp. 35		evaluation of based on concept	ual models using the potential				
5.	Ergić, T.,	Ivandić, Ž. Ultra-light telescopic crane	e/platform mechanism	s feature analysis (2009) Tehnio	cki Vjesnik, 16 (4), pp. 87-91.				
6.		., Ergić, T., Kokanović, M. Conceptua o, 51 (4), pp. 281-291.	I model and evaluatio	n of design characteristics in pro	oduct development (2009)				
7.		, P., Valíček, J., Hloch, S., Greger, M. copper surface texture created by ab							
8.		xá, A., Ergić, T., Ivandić, Ž., Hloch, S. v abrasive water-jet (2009) Strojarstvo		, J. Technical possibilities of no	ise reduction in material				
9.		á, M., Valiček, J., Hloch, S., Ergić, T., amics oscillating system (2008) Stroja			ity parameters of				
10.	Dunder, N pp. 325-3	<ol> <li>Ivandić, Ž., Samardžić, I. Selectior</li> <li>30.</li> </ol>	n of arc welding param	eters of micro alloyed HSLA ste	eel (2008) Metalurgija, 47 (4),				
Sur	nmary data	for teacher's scientific or art and profe	-						
	ation total :		14						
	``	CI) list papers :	13	i					
Curre	ent projects	:	Domestic :	1 International	: 1				





Study Programme Accreditation

MASTER ACADEMIC STUDIES

Name	e and last n	ame:			Jovanović M.	Vukica			
	emic title:				Guest Profes				
Name	e of the inst	itution v	vhere the te	acher works full time and	-				
startir	ng date:								
Scier	ntific or art f	ield:			Mechatronics	, Robotics a	nd Automation and Integral Systems		
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	ection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Integral Systems		
PhD	thesis		2010	Purdue University - Wes	st Lafayette		Mechatronics, Robotics and Automation and Intelligent Systems		
Magi	Magister thesis 2006 Faculty of Technical Scie		ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems				
Bach	Bachelor's thesis 2001 Faculty of Technical Scie		ences - Novi S	ad	Production Systems, Organization and Management				
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	gramme name, study type		
1.	H105	Funda	mentals in (	Computer science		( H00) Med	chatronics, Undergraduate Academic Studies		
2.	H109	Funda	mentals in I	Programming		(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H1409	Intellig	ent System	s		(H00) Med	chatronics, Undergraduate Academic Studies		
4.	H1410			application of programma	able logic		chatronics, Undergraduate Academic Studies		
5.	BMI110	control Senso		ators in medicine		( BM0) Bio Studies	medical Engineering, Undergraduate Academic		
6.	II1009	Automatic identification systems					strial Engineering, Undergraduate Academic		
7.	II1010	Control of technical systems				( I10) Indus Studies	strial Engineering, Undergraduate Academic		
8.	ll1015	Progra	immable Lo	gic Controllers (PLC)		( I10) Indus Studies	strial Engineering, Undergraduate Academic		
9.	II1029	Compu	uter integrat	ed manufacturing		(110) Indus Studies	strial Engineering, Undergraduate Academic		
10.	ll1045	System	ns for meas	urement, surveillance and	d control	(110) Indus Studies	strial Engineering, Undergraduate Academic		
11.	ll1048	Artificia	al intelligen	ce in engineering		(110) Indus Studies	strial Engineering, Undergraduate Academic		
12.	IM1001	Funda	mentals of i	ndustrial engineering		Studies	neering Management, Undergraduate Academic		
13.	IM1022	Funda	mentals of f	echnical systems control		Studies	neering Management, Undergraduate Academic		
						Undergrad	chanization and Construction Engineering, uate Academic Studies		
14.	IM1035	Identifi	cation tech	nologies in enterprises		Studies	neering Management, Undergraduate Academic		
15.	IM1117	Compu	uter integrat	ted manufacturing (CIM)		Studies	neering Management, Undergraduate Academic		
16.	IM1719	Implen	nentation of	information systems in in	surance	Studies	neering Management, Undergraduate Academic		
17.	HDOK2 S	Selecte	ed topics in	non-industrial robotics		( 112) Indus	strial Engineering, Specialised Academic Studies		
18.	HDOS12	Resea techno		rea of automatic identifica	tion	( I12) Indus	strial Engineering, Specialised Academic Studies		
19.	HDOS13	Motion	control and	d application of MEMS		( 112) Indu	strial Engineering, Specialised Academic Studies		
20.	HDOS14	Noning	dustrial auto	omation		( 112) Indus	strial Engineering, Specialised Academic Studies		
21.	NIT08	Funda	mentals of	Computer Science and Int	formatics		strial Engineering - Advanced Engineering ies, Master Academic Studies		
22.	H799	Fieldbu	uses and pr	otocols			chatronics, Master Academic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

List o	ist of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program	me name, study type					
23.	1907	Automated Assembly Systems for H	igh Accuracy	·	nics, Master Academic Stud					
24.	IM2516	Artificial Intelligence in Engineering		· /	g Management, Master Acad					
25.	IM2716				g Management, Master Acad					
26.	IM2721		Systems for detection, alarming and warning (I20) Engineering Management, Master Academic St							
27.	HDOK12	Research in the area of automatic ic technologies	-	(H00) Mechatronics, Doctoral Academic Studies						
28.	HDOK13	Motion control and the application of	f MEMS	(H00) Mechatro	nics, Doctoral Academic Stu	ıdies				
29.	HDOK14	Non-industrial Automation		(H00) Mechatro	nics, Doctoral Academic Stu	ıdies				
30.	HDOK-3	Selected Chapters in Automation Sy	stems Integration	(H00) Mechatro	nics, Doctoral Academic Stu	ıdies				
31.	HDOKL3	Selected Chapters in Automation Sy	stems Integration	(H00) Mechatro	nics, Doctoral Academic Stu	ıdies				
32.	HDOL12	Research in the area of automatic ic technologies	lentification	(H00) Mechatro	nics, Doctoral Academic Stu	ıdies				
33.	HDOL13	Motion controla and application of M	IEMS	·	nics, Doctoral Academic Stu Engineering / Engineering M nic Studies					
34.	HDOL14	Nonindustrial automation		·	nics, Doctoral Academic Stu Engineering / Engineering M nic Studies					
Rep	oresentative	e refferences (minimum 5, not more th	an 10)							
1.		., Stankovski S., Tarjan L., Šenk I., Jo I Engineering Courses, International J								
2.		ć V., Filipović S., Ostojić G., Stankovs nbly, Facta universitatis - series: Mech								
3.	Ostojić G RFID Teo	., Lazarević M., Jovanović V., Stanko chnology  , Journal for Fluid Power, A	vski S., Ćosić I.: Desigutomation and Mechat	gn Process in the ronics – Ventil, 20	Assembly and Disassembly 006, Vol. 6, pp. 385-389, ISS	Systems Using N 1318-7279				
4.		ski S., Ostojić G., Jovanović V., Stevar cal Engineering, 2006, Vol. 4, No 1, pj				ersitatis - series:				
5.	Journal fo	., Lazarević M., Jovanović V., Stanko or Fluid Power, Automation and Mech -31/33 681.523								
6.		c, V., DeAgostino, T.H., Thomas, M.B EE Annual Conference and Expositio			students to succeed in a glo	bal workplace,				
7.	Internatio	5., Jovanović V., Stankovski S., Lazare onal Manufacturing Science and Engir is (ASME), 4-7 Oktobar, 2009, ISBN \$	eering Conference (M							
8.	Manufact	ć V., Savić B.: Determining the Optim turing Science and Engineering Confe 4-7 Oktobar, 2009, ISBN 9780791843	erence (MSEC), West I							
9.	Product I	ć V.: An Overview of Possible Integra Lifecycle Management, 4. ASME Inter American Society of Mechanical Eng	national Manufacturing	g Science and En	gineering Conference (MSE)					
10.	Educatio	ć V., Ncube L.: The Curriculum as a l n Project, 7. Annual ASEE Global Col n (ASEE), 1 Januar, 2008								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:							
	ation total :		9							
	`	CI) list papers :	1	1						
Curre	Current projects : Domestic : 1 International : 2									



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Nam	e and last n	ame:			Juhas T. Anamarija				
Acad	emic title:				Assistant Pro	sistant Professor			
-		itution v	vhere the te	eacher works full time and		Faculty of Technical Sciences - Novi Sad			
	ng date:				01.11.1990				
	ntific or art f		X		Theoretical E	lectrotechni			
	emic caries		Year	Institution					
	emic title el	ection:	2010	Faculty of Technical Sci			Theoretical Electrotechnics		
	PhD thesis         2009         Faculty of Technical Scient           Magister thesis         1994         School of Electrical Engine					Electrical and Computer Engineering			
	· · · · · · · · · · · · · · · · · · ·								
							Electrical and Computer Engineering		
List of courses being held by the teacher in the accredited study progr ID Course name					day programme		gramme name, study type		
1.	EE300	Electro	omagnetics				er, Electronic and Telecommunication g, Undergraduate Academic Studies		
2.	EOS01	Funda	mental elec	ctrical engineering		(E01) Pow	ver Engineering - Renewble Sources of Electrical ndergraduate Professional Studies		
3.	1087	Electri	cal Engine	ering in Industrial Engineer	ring	( GI0) Geo Studies	desy and Geomatics, Undergraduate Academic		
						Undergrad	chanization and Construction Engineering, uate Academic Studies		
				Academic					
4.	M112	Electri	cal Enginee	ering and Electric Machine	es	Undergrad	chnical Mechanics and Technical Design, uate Academic Studies		
					-	Studies	duction Engineering, Undergraduate Academic		
						(S00) Traf	fic and Transport Engineering, Undergraduate Studies		
						Undergrad	tal Traffic and Telecommunications, uate Academic Studies		
5.	Z107	Electri	cal Enginee	ering, Environment and Pr	otection		01) Safety at Work, Undergraduate Academic Studies 20) Environmental Engineering, Undergraduate Academic udies		
6.	ll1007	Funda	mental elec	ctrical engineering		Studies	strial Engineering, Undergraduate Academic		
0.		T dilida		Saloar onginooning		Academic			
7.	URZP12	Introdu	uction to ele	ectrical engineering		Undergrad	aster Risk Management and Fire Safety, uate Academic Studies		
8.	DE208S	Select	ed Chapter	s on Electromagnetic Con	npatibility	Engineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
9.	DE408S	Select	ed chapters	s inl electromagnetics		Èngineerin	ver, Electronic and Telecommunication g, Specialised Academic Studies		
10.	EE543		o Magnetic			Èngineerin	er, Electronic and Telecommunication g, Master Academic Studies		
11.	H799	Fieldb	uses and p	rotocols		· /	chatronics, Master Academic Studies		
12.	DE208	Select	ed Chapter	s on Electromagnetic Con	npatibility	Èngineerin	ver, Electronic and Telecommunication g, Doctoral Academic Studies		
13.	DE408			s in Electromagnetics			ver, Electronic and Telecommunication g, Doctoral Academic Studies		
Rep				num 5, not more than 10)					
1.	IEEE Tra	nsactior	ns of Microv	wave Theory and Technique	ues, vol. 57, no	o. 6, pp. 162	plifier based upon a finite number of harmonics"," 3-1625, June 2009. ISSN 0018-9480.		
2.	Applicatio	ons", IEE	EE Transac	tions on Broadcasting, vo	l. 47, no. 1, pp.	38-45, 2001			
3.				ihas, "Increasing Efficienc ng, vol. 47, no. 1, pp.32-37			HPTA by Injection of Two Harmonics", IEEE		

ASTAS STUDIORUM			UNIVERSITY OF NO	VI SAD		WHEN A				
		FACULTY OF TECHNICAL SCI	CHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
		Study F MASTER ACADEMIC STUDIES	Programme A	ccreditatio	<b>)N</b> Mechatronics	Hoon Co				
Rep	presentative re	efferences (minimum 5, not more th	an 10)							
4.		A. Juhas, M. Milutinov,." A design c tronics and Energetics, 2009, Vol. 2				niversitatis -				
5.	L. A. Novak pp. E7-E10	, A. Juhas, "O broju maksimuma u , 1994.	dvočlanim složenoper	iodičnim funkcijar	na: krive katastrofa", Elektr	otehnika, br. 1-2,				
6.		1. Milutinov, M. Prša, "Magnetic field Proceedings of the 7th Int. Power S								
7.		v, A. Juhas, M. Prša, "Electric and n s of the 2nd Int.I Conf. on Modern F 3323.								
8.	,	1. Milutinov, N. Pekarić-Nađ, "Iskust 0-77, 2011. ISSN 1820-7782	va u primeni nacional	nih pravilnika o ne	jonizujućim zračenjima", T	elekomunikacije,				
9.		1. Milutinov, D. Herceg, M. Prša, N. za potrebe biomagnetskih ekspreim				ja kontrolisanog				
10.	Proceeding	I. Pekarić-Nađ, D. Herceg, "Estima s of International PhD Seminar on o 2010, Sofia, Bulgaria, 10-13 Sep., 20	computational electror	nagnetics and opt	imization in electrical engir					
Sun	nmary data fo	r teacher's scientific or art and profe	essional activity:							
Quot	ation total :		5							
Total of SCI(SSCI) list papers :			3			•				
Curre	ent projects :		Domestic :	1	International :	0				



## Study Programme Accreditation



Mechatronics

Name and last name:					Kamberović L. Bato				
	lemic title:				Full Professor				
		itution w	vhere the te	acher works full time and					
	ng date:				15.03.1979				
Scier	ntific or art f	ield:			Quality, Effect	tiveness and	d Logistics		
Acad	lemic cariee	er	Year	Institution		Field			
Acad	lemic title el	ection:	2007	Faculty of Technical Sci	ences - Novi S	ad	Quality, Effectiveness and Logistics		
PhD	thesis		1996	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management		
Magi	ster thesis		1985	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management		
Bach	elor's thesis	S	1978	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management		
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.	II1014	Produc	ct measurer	nent and control techniqu	es	(110) Indus Studies	strial Engineering, Undergraduate Academic		
2.	II1036	Metho	ds and tech	niques of quality improve	ment	(110) Indus Studies	strial Engineering, Undergraduate Academic		
3.	II1050	TRIBO	DLOGY AND	UUBRICATION		Studies	strial Engineering, Undergraduate Academic		
						(110) Indus Studies	strial Engineering, Undergraduate Academic		
4.	IM1020	Quality	/ Managem	ent System			neering Management, Undergraduate Academic		
5.	IM1606	Designing, Auditing and Analyses of Quality Management System			/	(110) Indus Studies	strial Engineering, Undergraduate Academic		
						Studies	eering Management, Undergraduate Academic		
6.	IM1612	Methods and techniques of quality system in			-	Studies	eering Management, Undergraduate Academic		
7.	IM1613			nent and control techniqu	es	Studies	eering Management, Undergraduate Academic		
8.	IM1616	Quality	/ planning			Studies			
9.	IM1617	Quality	/ Managam	ent System in Service Pro	ovision	(I20) Engineering Management, Undergraduate Academic Studies			
10.	IM1619	-	and Procu			Studies	Engineering Management, Undergraduate Academic ss		
11.	1503			nce in Quality Manageme	nt Systems		(110) Industrial Engineering, Master Academic Studies		
12.	1504	Integra	ated Manag	ement Systems			strial Engineering, Master Academic Studies		
13.	IMDS95	Trends	s in Custom	er Relationship Managem	ient		strial Engineering, Specialised Academic Studies neering Management, Specialised Academic		
14.	1309	Quality	/ Managem	ent System		( LIM) Logi Academic	stic Engineering and Management, Master Studies		
15.	LIM18	Life Cy	cle Costs a	ind Supply		( LIM) Logi Academic	stic Engineering and Management, Master Studies		
16.	LIM21	Total C	Quality Man	agement and Logistics		( LIM) Logi Academic	stic Engineering and Management, Master Studies		
17.	1843	Mainte	nance effe	ctiveness			chatronics, Master Academic Studies strial Engineering, Master Academic Studies		
18.	1912	Proces	s approach	and quality			strial Engineering, Master Academic Studies		
-							strial Engineering, Specialised Academic Studies		
19.	IIDS12	Quality and organizational performance				(122) Engineering Management, Specialised Academic Studies			
20.	IIDS30	Trends	in the envi	ronmental management s	systems		strial Engineering, Specialised Academic Studies neering Management, Specialised Academic		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

List o	of courses b	eing held by the teacher in the accrec	lited study programme	s			
	ID	Course name		Study program	me name, study type		
21.	IIDS7	Selected topics in quality engineering	g and logistics	(112) Industrial E	Engineering, Specialised Aca	ademic Studies	
22.	IM2613	Models of Excellence in Quality Man	agement Systems	(I20) Engineerin	g Management, Master Acad	lemic Studies	
23.	IM2614	Integrated Management Systems		(I20) Engineering	g Management, Master Acad	lemic Studies	
24.	IM2616	Product and service quality improver	ment - lean six sigma	(I20) Engineerin	g Management, Master Acad	lemic Studies	
25.	IM2623	Total Quality Management		(I20) Engineering	g Management, Master Acad	lemic Studies	
26.	IMDS74	Selected Topics in Quality Managem	nent and Logistics	(I22) Engineerir Studies	ng Management, Specialised	Academic	
27.	IMDS76	Selected topics in industrial marketin engineering	ig and media	( I22) Engineerir Studies	ng Management, Specialised	Academic	
28.	IMDR94	Trends in the environmental manage	ement systems	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,	
29.	IMDR95	Trends in Customer Relationship Ma	inagement	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,	
30.	IMDR74	Selected Topics in Quality Managem	nent and Logistics	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,	
31.	IMDR76	IMDR76         Selected topics in industrial marketing and media engineering         ( 120) Industrial Engineering / Engineering Manager					
32.	IMDR79	Selected topics in quality engineering	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,		
33.	IMDR83	Quality abd organisational performar	(120) Industrial E Doctoral Acader	Engineering / Engineering M nic Studies	anagement,		
34.	ZRD212	Integrating occupational health and s into management systems	safety requirements	(Z01) Safety at	Work, Doctoral Academic St	udies	
Rep	oresentative	e refferences (minimum 5, not more th	an 10)				
1.	<ol> <li>Delić M., Radlovački V., Kamberović B., Vulanović S., Hadžistević M., Tasić N.: ESTIMATES OF QUALITY MANAGEMENT SYSTEMS IN SERBIA, Metalurgia international, 2013, No 4, ISSN 1582-2214</li> </ol>						
2.		ć R., Radlovački V., Pečujlija M., Kam s to be taken to improve quality in tran					
3.	WITH TH	ki V., Pečujlija M., Kamberović B., Jov IE APPLICABILITY OF THEIR KNOW 785, ISSN 1840-1503					
4.	Managen	ki V., Beker I., Majstorović V., Pečujlij nent Principles Application in Certified Journal of Mechanical Engineering, 20	Organisations in Tran	sitional Condition	is - Is Serbia Close to TQM,		
5.		brović: MODEL INTEGRALNOG SIST ke sisteme i IIS - Istraživački i tehnolo			Univerzitet u Novom Sadu,	Institut za	
6.	Kambero	vić B., Kecojević S.: ISO 9000 I ODR	ŽAVANjE , Novi Sad,	Fakultet tehnički	h nauka - Institut za industrij	ske sisteme	
7.	Kambero	vić B., Radaković N.: QFD METODA	, Novi Sad, Fakultet t	ehničkih nauka -	Institut za industrijske sistem	ie	
8.	Stanivuko 9001:200	vić B., Radlovački V.: SISTEM UPRA ović, Bato Kamberović, R. Maksimović )0, Novi Sad, Fakultet tehničkih nauka 978-86-907041-3-2, UDK: 005.336.3	<ul> <li>Nikola Radaković, V</li> <li>Institut za industrijsł</li> </ul>	'. Radovački, M. Š	ilobad: SISTEM KVALITET	A ISŐ	
9.	Vojislav V., Kamberović B.: KONTROLNE KARTE u knjizi: Dr Vojislav Vulanović, Dragutin Stanivuković, Bato Kamberović, R. Maksimović, Nikola Radaković, V. Radovački, M. Šilobad: METODE I TEHNIKE UNAPREĐENJA PROCESA RADA - STATISTIČKE * INŽENJERSKE * MENADŽERSKE, Novi Sad, Fakultet tehničkih nauka - Institut za industrijske sisteme i IIS- Istraživački i tehnološki centar, 2003, str. 60-120, UDK: 658.5						
10.	investme	Kamberović B., Radlovački V., Delić I nt profitability - Relative net present va o 26, pp. 331-337, ISSN 1993-8233	,	0 1	5		
Sur		for teacher's scientific or art and profe	essional activity:				
	ation total :		0				
Tota	of SCI(SS	CI) list papers :	6				
Curre	ent projects		Domestic :	0	International :	0	



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Name and last name:					Klinar J. Ivan					
	lemic title:					Full Professor				
		itution w	where the ta	acher works full time	and			nces - Novi Sad		
	ng date:					01.02.1972				
	ntific or art f	ield:				Internal Combustion Engines				
Acad	lemic cariee	er	Year	Institution		Field				
Acad	lemic title el	ection:	1999	Faculty of Technica	al Scie	ences - Novi S	ad	Internal Combustion Engines		
PhD	thesis		1988	Faculty of Technica	al Scie	ences - Novi S	ad	Internal Combustion Engines		
Magi	ster thesis		1978	Faculty of Agricultu	ire - N	lovi Sad		Motor Vehicles		
Bach	elor's thesis	6	1971	Faculty of Technica	al Scie	ences - Novi S	ad	Internal Combustion Engines		
List c	of courses b	eing he	ld by the te	acher in the accredite	ed stu	udy programme	es			
	ID	Course	e name				Study pro	gramme name, study type		
1.	M213	Machir	ne Usage				(M20)Mee Undergrad	chanization and Construction Engineering, uate Academic Studies		
2.	M2418	Mecha	tronics of N	Notors and Road Veh	nicles			chanization and Construction Engineering, uate Academic Studies		
3.	M2523	IC Eng	jine Equipn	nent			Academic			
4.	S0I241	Interna	al Combusti	on Engines			( S00) Traf Academic	fic and Transport Engineering, Undergraduate Studies		
5.	H2403	Equipr	ment and IC	Engines Mechatroni	ics		(H00) Mec	chatronics, Master Academic Studies		
6.	M2403	IC Eng	jines				(M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies		
7.	M2547	Equipment of IC engines and motor vehicles			s	( M22) Meo Academic	chanization and Construction Engineering, Master Studies			
8.	M2548	Diagnostics and maintenance of IC engines and v			and vehicles	( M22) Meo Academic	chanization and Construction Engineering, Master Studies			
9.	LIM14	Monito	oring and Di	agnostics of Transpo	ortatio	on Means	( LIM) Logi Academic	istic Engineering and Management, Master Studies		
10.	DM420	Select	ed Chapter	s – Internal Combust	tion (I	C) Engines	( M00) Me	chanical Engineering, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than	า 10)					
1.				ć A., Bošnjaković S.:I ceedings, A7-1-13, Br			additives for	r fuel on efektiveness of engine, 38. International		
2.	Klinar I.: I	Motori S	US, osnov	ni udžbenik, Fakultet	tehni	ičkih nauka-No	vi Sad, 200	5. UDK621.43(075.8), ISBN86-85211-47-6		
3.								Sad, 1993. UDK621.43(075.8)		
4.		Sistemi	napajanja g					N-Institut za mehanizaciju, 1991.		
5.	Dorić J., I	Klinar I.:	,		f a ne	w thermodyna	mic cycle fo	r internal combustion engine, Thermal Science,		
6.	Dorić J., I	Klinar I.:	Efficiency				Volume Co	mbustion spark ignition engine, Thermal Science,		
7.	Dorić J.,	Klinar I.:	Efficiency	,	conce		e piston mot	tion, Thermal Science, 2012,		
8.		Stefanov	vić A., Rajk	,		ston-cylinder di	agnostics of	fits of engines, Tribology in industry, vol.21,		
9.	Klinar I.,	Dorić J.: zijum o l	One meth					ameters of I.C. engine piston-cylinder assemblies, čkih nauka, 29-30 Septembar, 2010, pp. 305-310,		
10.	ACTUAL	TASKS	ON AGRIC	CULTURAL ENGINE	ERIN	G, Opatija: Sve		ry, 39. 39th INTERNATIONAL SYMPOSIUM: agrebu Agronomski Fakultet, Hrvatska, 22-25		
Sur	Februar, 2011, pp. 149-160, ISBN 1333-2651, UDK: 631 Summary data for teacher's scientific or art and professional activity:									
	ation total :									
Total of SCI(SSCI) list papers : 3										
Curre	ent projects			C	Dome	estic :	0	International : 0		



# JA OBRADOVIĆA 6



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Name and last name:					Kozak V. Dra	žen			
	emic title:				Guest Profes				
		titution w	where the te	acher works full time and	-				
	ng date: ntific or art f	iold:			Mochatronica	Pohotics a	and Automation and Integral Systems		
	emic carie		Year	Institution	Mechalionics	, RUDULICS a	and Automation and Integral Systems		
				institution		Mechatronics, Robotics and Automation			
Acad	emic title el	lection:	2012				Integral Systems		
PhD	thesis		2001	Faculty of Mechanical E Architecture - Zagreb Faculty of Mechanical E			Mechanical Engineering		
Magi	ster thesis		1995	Architecture - Zagreb	0 0		Mechanical Engineering		
	elor's thesis		1991	Mechanical Engineering Slavonski Brod	-		Mechanical Engineering		
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	gramme name, study type		
1.	H102	Funda	mentals in I	Product Development		( H00) Med	chatronics, Undergraduate Academic Studies		
2.	H105	Funda	mentals in (	Computer science		( H00) Med	chatronics, Undergraduate Academic Studies		
3.	H109			Programming			chatronics, Undergraduate Academic Studies		
4.	H1410	Progra control		application of programma	able logic	( H00) Med	chatronics, Undergraduate Academic Studies		
5.	H1501A			ailance and Visualisation of	of Process	(H00) Med	chatronics, Undergraduate Academic Studies		
6.	H308	Industi	rial Robotic	3		( H00) Mea	chatronics, Undergraduate Academic Studies		
7.	BMI106	Rehabilitation devices and systems				( BM0) Bio Studies	10) Biomedical Engineering, Undergraduate Academic lies		
8.	H301	System Modeling and Symulation				( H00) Mec	chatronics, Master Academic Studies		
9.	HDOS12	Research in the area of automatic identificatechnology			tion	( 112) Indus	strial Engineering, Specialised Academic Studies		
10.	HDOS13	Motion control and application of MEMS				( 112) Indus	strial Engineering, Specialised Academic Studies		
11.	HDOS14	Nonindustrial automation				( 112) Indus	strial Engineering, Specialised Academic Studies		
12.	NIT06	Advan	ced Techno	logies for Manufacturing	Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies			
13.	NIT08	Funda	mentals of	Computer Science and Inf	formatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies			
14.	H828	Advan	ced robotic	3		(H00) Mechatronics, Master Academic Studies			
15.	IIDS6			in automation		(112) Industrial Engineering, Specialised Academic Studies			
16.	IM2516			ce in Engineering		(I20) Engineering Management, Master Academic Studies			
17.	IM2721	-		tion, alarming and warning	-	(I20) Engineering Management, Master Academic Studies			
18.	HDOK12	Resea techno		rea of automatic identifica		( H00) Meo	chatronics, Doctoral Academic Studies		
19.	HDOK13	Motion	control and	the application of MEMS	;	( H00) Meo	chatronics, Doctoral Academic Studies		
20.	HDOK14	Non-in	dustrial Aut	omation		( H00) Med	chatronics, Doctoral Academic Studies		
21.	HDOK-3	Select	ed Chapter	s in Automation Systems I	Integration	(H00) Med	chatronics, Doctoral Academic Studies		
22.	HDOKL3	Select	ed Chapter	s in Automation Systems I	Integration	( H00) Med	chatronics, Doctoral Academic Studies		
23.	HDOL12	Resea techno		rea of automatic identifica	tion	( H00) Med	chatronics, Doctoral Academic Studies		
24.	HDOL13					( 120) Indus	chatronics, Doctoral Academic Studies strial Engineering / Engineering Management, cademic Studies		
25.	HDOL14	Noning	dustrial auto	mation		( 120) Indu	chatronics, Doctoral Academic Studies strial Engineering / Engineering Management, cademic Studies		
Rep	oresentative	e refferei	nces (minin	num 5, not more than 10)					
1					ad solutions o	f heterogene	eous welded joints (2009) International Journal of		
١.	<ol> <li>Kozak, D., Gubeljak, N., Konjatić, P., Sertić, J. Yield load solutions of heterogeneous welded joints (2009) International Journal of Pressure Vessels and Piping, 86 (12), pp. 807-812.</li> </ol>								

5	TAS STUD		UNIVERSITY OF NC	VI SAD		WHEN HA			
AN AN	O HAR	FACULTY OF TECHNICAL SC	ENCES 21000 NOVI	SAD, TRG DOSITE	JA OBRADOVIĆA 6	STATE OF			
NO. NEO		Study F	Study Programme Accreditation						
4	LANTER	MASTER ACADEMIC STUDIES			Mechatronics	- 10			
Rep	presentative r	efferences (minimum 5, not more th	an 10)						
2.	<ul> <li>Hloch, S., Valíček, J., Kozak, D., Tozan, H., Chattopadhyaya, S., Adamčík, P. Analysis of acoustic emission emerging during</li> <li>hydroabrasive cutting and options for indirect quality control (2012) International Journal of Advanced Manufacturing Technology, pp. 1-14.</li> </ul>								
3.		Hloch, S., Kozak, D. Surface geom rnational Journal of Advanced Man				terjet technology			
4.	Kladaric, I., Kozak, D., Krumes, D. The effect of aging parameters on properties of maraging steel (2009) Materials and Manufacturing Processes, 24 (7-8), pp. 747-749.								
5.	Haluzíková	Čep, R., Rokosz, K., Łukianowicz, , B. New way to take control of a stu senschaft und Werkstofftechnik, 43	ructural grain size in tl						
6.		, Ohlídal, M., Valíček, J., Kozak, D., pography generated by abrasive wa				alysis of metallic			
7.		M., Mrkvica, I., Čep, R., Kozak, D., I 011) Tehnicki Vjesnik, 18 (4), pp. 60		tions after heat treat	ment and their influence	on cutting			
8.		., Rakin, M., Medjo, B., Gubeljak, N smatched welded CCT specimens							
9.		Vojvodić, D., Kozak, D., Sertić, J., Mehulić, K., Celebic, A., Komar, D. Influence of depth alignment of E-glass fiber reinforcements on dental base polymer flexural strength (2011) Materialpruefung/Materials Testing, 53 (9), pp. 528-535.							
10.	Kozak D. Jvandić Z. Kontajić P. Determination of the critical process for a bet water nine with a correction defect (2010)								
Sur	mmary data fo	or teacher's scientific or art and prof	essional activity:						
Quot	tation total :		39						
	I of SCI(SSCI	) list papers :	36	;i		-			
Curre	ent projects :		Domestic :	1	nternational :	1			



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Name and last name:					Lalić P. Bojan				
	emic title:				Assistant Professor				
		itution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				17.06.2002				
Scier	ntific or art f	ield:		í.	Production Systems, Organization and Management				
Academic carieer Year Institution						Field			
Acad	emic title el	ection:	2011				Production Systems, Organization and Management		
PhD	thesis		2011	Faculty of Technical Scie	ences - Novi S	ad	Engineering Management		
Magi	ster thesis		2004	Faculty of Technical Scie	ences - Novi S	ad	Engineering Management		
Bach	elor's thesis	S	2001	Faculty of Technical Scie	ences - Novi S	ad	Mechanical Engineering		
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.	EOS39	Projek	tni menadž	ment			ver Engineering - Renewble Sources of Electrical Indergraduate Professional Studies		
2.	ll1017	Produc	ction Syster	n Design			strial Engineering, Undergraduate Academic		
3.	II1019	Projec	t Managem	ent		(110) Indus Studies	strial Engineering, Undergraduate Academic		
4.	IM1019	Comm	ercial Proce	esses		( I20) Engii Studies	neering Management, Undergraduate Academic		
5.	IM1026	E-Business				( I20) Engii Studies	(120) Engineering Management, Undergraduate Academic Studies		
6.	IM1027	Production systems				Studies	neering Management, Undergraduate Academic asurement and Control Engineering,		
7.	IM1046	Structural and Development Projects				(I20) Engii	uate Academic Studies neering Management, Undergraduate Academic		
		011000				Studies	neering Management, Undergraduate Academic		
8.	IM1104	Strate	gic Manage	ment		Studies			
9.	IM1106	Busine	ess Process	Simulation		Studies	strial Engineering, Undergraduate Academic		
						(I20) Engineering Management, Undergraduate Aca Studies			
10.	IM1319	Platfor	ms and sys	stems for knowledge trans	fer	(I20) Engin Studies	neering Management, Undergraduate Academic		
	11.10.101	0	4 <sup>1</sup>				ergy Management, Master Academic Studies		
11.	IM2123	Operat	tions manag	gement		(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic		
12.	IS001	Effectiv	ve manage	ment		( I20) Engii Studies	neering Management, Specialised Professional		
, 2.	10001	LICOU	. o managel			(IB0) Engi Profession	neering Management - MBA, Specialised al Studies		
13.	MBA304	Busine	ess Strategi	es		Profession			
		Version	adac Orist	mo and Drain at Marian	opt	( I20) Engii Studies	neering Management, Specialised Professional		
14.	MBA413	KNOWI	euge Syste	ms and Project Managem	ent	( IB0) Engi Profession	neering Management - MBA, Specialised al Studies		
15	MBA601	Applic		and Internet in husiness		( I20) Engii Studies	neering Management, Specialised Professional		
10.	15. MBA601 Applied use			d use of IT and Internet in business		(IB0) Engineering Management - MBA, Specialised Professional Studies			
16.	PLM05	Manag	gement of P	LM Projects			strial Engineering - Product Lifecycle Management opment, Master Academic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List c	of courses b	eing held by the teacher in the accredited study programme					
	ID	Course name	Study programme name, study type				
17.	SZP003	Selected Chapters in Applied Management	( I20) Engineering Management, Specialised Professional Studies				
	02.000		(IB0) Engineering Management - MBA, Specialised Professional Studies				
18.	RPR005	Project Cycle Management	( RPR) Regional Development Planning and Management, Master Academic Studies				
19.	IM2101	Intelligent Enterprising and Effective Management	<ul><li>(M50) Energy Management, Master Academic Studies</li><li>(I20) Engineering Management, Master Academic Studies</li></ul>				
20.	IM2123	Operations management	(M50) Energy Management, Master Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies				
21.	IM2124	Production and Service Systems	(H00) Mechatronics, Master Academic Studies (M50) Energy Management, Master Academic Studies				
22.	IM2307	Strategic Project Management	(M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies (Z20) Environmental Engineering, Master Academic Studies				
23.	IM2314	Program and Portfolio management	(120) Engineering Management, Master Academic Studies				
			(110) Industrial Engineering, Master Academic Studies				
24.	IM2316	Theory of Constraints	(120) Engineering Management, Master Academic Studies				
25.	IM2319	Project evaluation	( OM1) Mathematics in Engineering, Master Academic Studies				
			(I20) Engineering Management, Master Academic Studies				
26.	IM2922						
27.	IMDS71	Selected topics of project management	( I22) Engineering Management, Specialised Academic Studies				
28.	S1I594	E-Business	(S01) Postal Traffic and Telecommunications, Master Academic Studies				
29.	UP002	Applied Project Cycle Management	( I20) Engineering Management, Specialised Professional Studies ( IB0) Engineering Management - MBA, Specialised				
			Professional Studies				
30.	IMDR71	Selected topics of project management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies				
31.	ZRD27A	Operations management in the security and occupational safety	( Z01) Safety at Work, Doctoral Academic Studies				
Rep	presentative	e refferences (minimum 5, not more than 10)					
1.		Ćosić I., Anišić, Z.: SIMULATION BASED DESIGN AND RE mal journal of Simulation Modelling, IJSIMM, issn 1726-452 er 2005.					
2.	R. Maksi	movic, B.Lalić; Flexibility and Complexity of Effective Enterp	rises, Strojniski Vesnik, 2008.				
3.	Cruz-Cur Organiza	nha, P. Goncalves, N. Lopes, E.M. Miranda and G.D. Putnik	communication satisfaction within the organizations. In: M.M. , ed. Handbook of Research on Business Social Networking: ork, Business Science Reference (IGI Global), 2011, str. 545-				
4.	challenge	Marjanović U.: Organizational Readiness/Preparedness. In: ss and opportunities for SMEs: driving competitiveness., Ner ISBN 978-1-61692-880-3	: M.M. Cruz-Cunha and J. Varajao, ed. E-business issues, w York, Business Science Reference (IGI Global), 2011, str.				
5.	Simeuno	vić N., Ćosić I., Radaković N., Lalić B.: The General Work F nal Scientific Book, 2009, str. 281-288, ISBN 987-3-901509					
6.	Lalić B., I		ing and Evaluating Projects, International journal of Simulation				
7.		Ćosić I., Anišić Z.: SIMULATION BASED DESIGN AND RE nal journal of Simulation Modelling-IJSIMM, 2005, Vol. 4, N					
8.	making p	c M., Moreno Perez J., Lalić B., Todorovic V., Jovanović M.: roject management decisions in construction, Projektna mre 9, ISSN 1580-0229	: Use of cost analysis, estimation and risk management in eza Slovenije - Project Management Review, 2010, Vol. 8, No				
9.		Ćosić I., Poli M.: Project Strategy Matching Project Structur f Industrial Engineering and Management - IJIEM, 2010, Vo					

SITAS STUDIO UNIVERSITY OF NOVI SAD FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6 Study Programme Accreditation MASTER ACADEMIC STUDIES Mechatronics Representative refferences (minimum 5, not more than 10) Poli M., Mithiborwala H., Maksimović R., Lalić B.: PROJECT STRATEGY: SELECTING THE BEST PROJECT STRUCTURE, 9. PICMET Conference, Portland: Portland International Center for Management of Engineering and Technology, 2-6 Avgust, 2009, 10. pp. 1276-1281, ISBN 978-1-890843-20/5 Summary data for teacher's scientific or art and professional activity: Quotation total : 4 Total of SCI(SSCI) list papers : 2 Current projects Domestic : 2 International : 2



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Name and last name:					Lazarević M. Milovan			
-	emic title:				Assistant Professor			
-		itution v	where the te	acher works full time and	Faculty of Tee	chnical Scie	nces - Novi Sad	
	ng date:				11.11.2000			
	ntific or art f				Production Sy	/stems, Org	anization and Management	
Acad	emic cariee	er	Year	Institution			Field	
	emic title el	ection:	2010	Faculty of Technical Scie			Production Systems, Organization and Management	
PhD	thesis		2009	Faculty of Technical Scie	ences - Novi Sa	ad	Engineering Management	
Magi	ster thesis		2006	Faculty of Technical Scie	ences - Novi Sa	ad	Production Systems, Organization and Management	
Bach	elor's thesis	5	2000	Faculty of Technical Scie	ences - Novi Sa	ad	Production Systems, Organization and Management	
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.	EOS19	Disma	ntling and r	ecycling technologies			ver Engineering - Renewble Sources of Electrical ndergraduate Professional Studies	
2.	M316	Produc	ction Syster	ns		( GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
<u> </u>	1010		cion cyster			Undergrad	hnical Mechanics and Technical Design, uate Academic Studies	
3.	II1012	Assembly Technologies				Studies	strial Engineering, Undergraduate Academic	
4.	II1017	Production System Design				Studies	strial Engineering, Undergraduate Academic	
5.	II1037	Disassembly and recycling technologies				(110) Indus Studies	strial Engineering, Undergraduate Academic	
6.	ll1053	Produc	ction Syster	ns		Academic		
			,			Studies	duction Engineering, Undergraduate Academic	
7.	IM1027	Produc	ction systen	ns		Studies	neering Management, Undergraduate Academic	
			,			Undergrad	asurement and Control Engineering, uate Academic Studies	
8.	IM1114	Energy	/ Flows in tl	ne Enterprise		(I20) Engin Studies	eering Management, Undergraduate Academic	
9.	IM1119	Produc	ct managen	nent at end of life		Studies	eering Management, Undergraduate Academic	
10.	EI504	Manao	ement of S	mall and Medium Enterpri	ses	Academic		
		3	,		-	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		
11.	IMDR0S	Selector and co	•	s in enterprise's design, or	ganization		strial Engineering, Specialised Academic Studies neering Management, Specialised Academic	
12.	IMDS56	Product traceability during the lifetime					strial Engineering, Specialised Academic Studies	
13.	IMDS57	Strategic Planning and Designing Procedure Systems at the End of Product Lifecycle			es and		strial Engineering, Specialised Academic Studies	
14.	IMDS93	Virtual Enterprises and Collaborative System			ns	( I22) Engi Studies	neering Management, Specialised Academic	
15		Busine	ee intollioo	nce concents		( I20) Engii Studies	neering Management, Specialised Professional	
15.	MBA411	Business intelligence concepts				(IB0) Engineering Management - MBA, Specialised Professional Studies		
16.	PLM02	Produc	ct Developn	nent and Management in F	PLM	Professional Studies (110) Industrial Engineering, Master Academic Studies (11U) Industrial Engineering - Product Lifecycle Managem and Development, Master Academic Studies		

# ASS STUDIO

UNIVERSITY OF NOVI SAD

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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List c	of courses b	eing held by the teacher in the accred	lited study programme	s		List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	me name, study type									
17.	PLM06	Technologies for Disposal at the Pro	oducts End-Of-Life		Engineering - Product Lifecy nt, Master Academic Studies									
18.	1907	Automated Assembly Systems for H	igh Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies										
				, ,										
19.	IIDR5S	Advanced Engineering Technologies	S		Engineering, Specialised Ac ng Management, Specialised									
				(M50) Energy N	lanagement, Master Acader	nic Studies								
				, ,	Engineering, Specialised Ac									
20.	IIDS10	10 Effective technological and production structures (122) Engineering Management, Specialised Academic Studies												
				(110) Industrial E	Engineering, Master Acaden	nic Studies								
21.	IM2102	Manufacturing strategy (KAIZEN, LE EFPS)	EAN, KANBAN,	(M50) Energy N	lanagement, Master Acader	nic Studies								
				(I20) Engineering	g Management, Master Aca	demic Studies								
22.	IM2120	Virtual Enterprises		(I20) Engineering	g Management, Master Aca	demic Studies								
				, , <u> </u>	nics, Master Academic Stud									
23.	IM2124	Production and Service Systems		(M50) Energy M	lanagement, Master Acader	nic Studies								
24.	PLM02	Applied Product Development		, , ,	ng Management, Specialised									
25.	IMDR0	Science of Industrial Engineering an	d Management	(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,								
26.	IMDR56	Traceability of Product Lifecycle		(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,								
27.	IMDR57	Strategic Planning and Designing Pr Systems at the End of Product Lifed		(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,								
28.	IMDR93	Virtual Enterprises and Collaborative	e Systems	(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,								
29.	IMDR85	Effective technological and production	on structures	(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,								
Rep	oresentative	e refferences (minimum 5, not more th	an 10)											
1.		0., Ostojić G., Stankovski S., Lazarevie environment, Assembly Automation, 2				oly/disassembly								
2.	of accept	iki S., Ostojić G., Tarjan L., Škrinjar D ance 14. March 2010), Iranian Journa	al of Science & Techno	ology, Transaction	ns B, 2011, ISSN 1028-6284	· ·								
3.	Ostojić G Journal o	i., Lazarević M., Stankovski S., Ćosić f Mechanical Engineering, 2008, Vol.	I. : RFID Technology A 54, Broj 11, str. 759-7	Application in Disa 67, ISSN 0039- 2	assembly Systems, Strojnis 2480, UDK: 658.5	ski vestnik =								
4.		ki S., Lazarević M., Ostojić G., Ćosić ssembly Automation, 2009, Vol. 29, B			ct/Part Tracking During the	Whole Life								
5.	product to	ć M., Ostojić G., Ćosić I., Stankovski S racking based on radio-frequency ider -4787, ISSN 1992-2248												
6.	technolog	i., Stankovski S., Vukelić Đ., Lazarevi gy in a process of fixture assembly/dis 19-825, ISSN 0039-2480												
7.	Lazarevid	ć M., Ostojić G., Stankovski S., Ćosić a, Broj priznatog patenta: 51796, datu				korišćenjem								
8.	Vukelić E Internatio	0., Tadić B., Hodolič J., Budak I., Laza nal Conference on Accomplishments ka: Faculty of Mechanical Engineering	rević M.: Developmer in Electrical and Mech	nt an expert system nanical Engineerin	m for machining fixture designs and Information Technolo									
9.		ć, M., Ćosić, I., Anišić, Z.: RFID Tehno d Technologies for Developing Countr				Conference on								
10.		Lazarević M., Sremčev N.: Design fo kultet tehničkih nauka, 29-30 Septeml				jnu – KOD,								
Sur		for teacher's scientific or art and profe												
Quotation total : 11														
Total	of SCI(SS	CI) list papers :	6			i								
Curre	urrent projects : Domestic : 4 International : 3													



## Study Programme Accreditation



Mechatronics

Name and last name:					Maksimović M. Rado			
	emic title:				Full Professo			
Nam	e of the inst	itution v	where the te	acher works full time and			nces - Novi Sad	
	ng date:				12.06.1979			
Scier	ntific or art f	ield:			Production S	ystems, Org	anization and Management	
Acad	emic cariee	er	Year	Institution	Field			
Acad	emic title el	ection:	2008	University of Novi Sad -	Novi Sad		Production Systems, Organization and Management	
PhD	thesis		1998	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management	
Magi	ster thesis		1989	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management	
Bach	elor's thesis	S	1978	Faculty of Technical Sci	ences - Novi S	ad	Engineering Management	
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.	Z421	Opera	cioni menao	džment(uneti naziv na eng	leskom)	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
2.	BM118C	Medica	al managen	nent		( BM0) Bio Studies	medical Engineering, Undergraduate Academic	
3.	IM1021	Develo	opmental Pr	rocesses in Company		( I20) Engi Studies	neering Management, Undergraduate Academic	
4.	IM1031	Entorn	rise's organ	nization		( I10) Indu: Studies	strial Engineering, Undergraduate Academic	
4.	11111031	Enterprise's organization				(I20) Engineering Management, Undergraduate Studies		
5.	IM1113	Improvement of products and processes				(I20) Engir Studies	neering Management, Undergraduate Academic	
		Selected chapters in enterprise's design, org		ganization		strial Engineering, Specialised Academic Studies		
6.	IMDR0S	and co				(I22) Engi Studies	neering Management, Specialised Academic	
7.	IMDS60	Enterp	rise Compl	exity and Flexibility		<ul> <li>(112) Industrial Engineering, Specialised Academic Studies</li> <li>(122) Engineering Management, Specialised Academic</li> </ul>		
		•	•	- <b>·</b>		Studies		
8.	IMDS63	Intollia	ent Organic	sation			strial Engineering, Specialised Academic Studies	
0.		intenig	ent Organis			Studies	neering Management, Specialised Academic	
9.	IMDS65		•	and Organizational Devel	opment	Studies	neering Management, Specialised Academic	
10.	1901	Manuf	acturing pe	rformace measurement		(110) Industrial Engineering, Master Academic Studies		
11.	1907	Autom	ated Assen	nbly Systems for High Acc	curacy		chatronics, Master Academic Studies	
$\mid$					-		duction Engineering, Master Academic Studies	
12.	IIDS10	Effectiv	ve technolo	gical and production struc	tures		strial Engineering, Specialised Academic Studies	
12.	10310	LIEUU			Auros	(122) Engi Studies	neering Management, Specialised Academic	
						( 112) Indu	strial Engineering, Specialised Academic Studies	
13.	IIDS19	Organi	izational str	uctures		( I22) Engi Studies	neering Management, Specialised Academic	
14.	IIDS5	Selecter and co	•	s in enterprise's design, or	ganization	( I12) Indu	strial Engineering, Specialised Academic Studies	
			_ ·				strial Engineering, Specialised Academic Studies	
15.	IIDS9	Lffectiv	ve Producti	on and Service Systems		( I22) Engi Studies	neering Management, Specialised Academic	
		M	ootu-l			( 110) Indu	strial Engineering, Master Academic Studies	
16.	IM2102	Manufa EFPS)		ategy (KAIZEN, LEAN, KA	NNDAN,		ergy Management, Master Academic Studies	
$\mid$		-)				(I20) Engineering Management, Master Academic Studies		
17.	IM2103	New te	chnologies	in engineering and mana	gement		strial Engineering, Master Academic Studies	
		New technologies in engineering and mana			J	(I20) Engineering Management, Master Academic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	me name, study type				
18.	IM2113	Design of enterprise's organization			Engineering, Master Acaden g Management, Master Acad				
19.	IM2114	Enterprise's performances		(I20) Engineering	g Management, Master Aca	demic Studies			
20.	IM2119	Layout and location of the enterprise	9	(I20) Engineering	g Management, Master Aca	demic Studies			
21.	IM2321	Management of project oriented enter	erprises	(I20) Engineering	g Management, Master Aca	demic Studies			
22.	IMDS69	Selected chapters in enterprise's dea and control	sign, organization	( I22) Engineering Management, Specialised Academic Studies					
23.	IMDR0	Science of Industrial Engineering an	d Management	(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
24.	IMDR12	Organizational structures		(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
25.	IMDR31	Effective Production and Service Sy	stems	(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
26.	IMDR60	Enterprise Complexity and Flexibility	/	(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
27.	IMDR63	Intelligent Organisation		(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
28.	IMDR65	Entrepreneurship and Organizationa	al Development	(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
29.	IMDR5	Selected chapters in enterprise's deand control	sign, organization	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
30.	IMDR69	Selected chapters of enterprise's ma control	anagement and	(120) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,			
31.	IMDR85	Effective technological and production structures (120) Industrial Engineering / Engineering Management, Doctoral Academic Studies							
32.	ZRD27A	Operations management in the secu safety	irity and occupational	(Z01) Safety at	Work, Doctoral Academic St	tudies			
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.		V., Maksimović R.: The overview of ransformations in Business & Econor				nce risk transfer			
2.	method,	V., Maksimović R.: A contribution to INTERNATIONAL JOURNAL OF SOF 569, ISSN 0218-1940							
3.	COMPAN	5, D., Ćosić, I., Maksimović, R.: IISE - IIES, U: Suresh, N.C, Kay, M.J.: GRC rch & Practice, New York: Cluwer Pre	OUP TECHNOLOGY 8	CELLULAR MAN	AGEMENT - A state of-The				
4.	Maksimo	vić, R, Lalić, B: Flexibility and Comple I. 54, No. 11, pp. 768- 782, UDK: 658.	xity of Effective Enterp			cal engineering,			
5.		vić, R., Stankovski, S., Ostojić, G., Pe fic and Industrial Research, 2009, 10			Flexibility of Production Strue	ctures, Journal			
6.	a Strateg	., Ćosić I., Lalić B., Maksimović R.: A ic Approach, Strojniski vestnik = Jouri I:10.5545/sv-jme.2010.030							
7.		B., Njegomir, V., Maksimović, R.: The ve, Economic research, 2010, Vol. 23			e insurance industry - Global	and regional			
8.	Obadović M., Maksimović R., Obadović M.: The estimate of the market risk by the application of historical simulation method in								
9.		, Maksimović, R., Adamović, Ž.: Key p SS MANAGEMENT, 4 (6): 890-902, 20		in a joint-stock co	ompany, AFRICAN JOURN	AL OF			
10.		O., Radišić, M., Maksimović, R. et al. 3 51 (6): 487-492. SPE-157689-PA. http			eAn Example of a Drilling F	Rig. J Can Pet			
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total :		8						
	```	CI) list papers :	11						
Curre	ent projects	:	Domestic :	2	International :	1			



## Study Programme Accreditation



Mechatronics

Name and last name:			Martinov L. Milan						
	emic title:				Full Professor				
		itution v	where the te	eacher works full time and			nces - Novi Sad		
	ng date:				10.12.1978				
Scier	ntific or art f	ield:		í	Biosystems E	ngineering			
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	ection:	1999	Faculty of Technical Science	ences - Novi S	nces - Novi Sad Biosystems Engineering			
Bach	elor's thesis	S	2000	Faculty of Mechanical E	ngineering - No	ovi Sad	Mechanical Engineering		
PhD	thesis		1988	Faculty of Technical Sci	ences - Novi S	ad	Biosystems Engineering		
Magi	ster thesis		1981	Faculty of Agriculture - Z	agreb		Biosystems Engineering		
List c	of courses b	eing he	ld by the te	acher in the accredited stu	idy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	M2407	Biosys	tem Machi	nes 2			chanization and Construction Engineering, uate Academic Studies		
2.	M304	Biosys	tem Machii	nes 1		( M20) Mee Undergrad ( M40) Tec	chatronics, Undergraduate Academic Studies chanization and Construction Engineering, uate Academic Studies chnical Mechanics and Technical Design, uate Academic Studies		
3.	URZP54	Device	es in the Pro	ocess Industry		(ZP0) Disa	aster Risk Management and Fire Safety, uate Academic Studies		
4.	Z475A	Enviro	nmental en	gineering in biosystems		(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic		
5.	Z476	Energy and renewable energy sources in r			ral areas	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic Studies			
6.	ZRI421	Occupational Safety in Agriculture and For			strv		ety at Work, Undergraduate Academic Studies		
7.	Z475	Inženierstvo zaštite životne sredine u biosi			•	, ,	ronmental Engineering, Undergraduate Academic		
8.	Z476			ivi izvori energije u ruralnir aziv na engleskom)	n	(Z20) Environmental Engineering, Undergraduate Academic Studies			
9.	H2405	IT in B	iosystems			(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Maste Academic Studies			
10.	M2651	Tracto	rs			( M22) Meo Academic	chanization and Construction Engineering, Master Studies		
11.	M2652	Agricu	ltural mach	inery for renewable energy	y sources	(M22) Mee Academic	chanization and Construction Engineering, Master Studies		
12.	Z477			ulture Engineering		, ,	ronmental Engineering, Master Academic Studies		
13.	Z478A			ology support sustainable	,	(Z20) Envi	ronmental Engineering, Master Academic Studies		
14.	Z477	Inženje engles		ve poljoprivrede(uneti naz	iv na	(Z20) Envi	ronmental Engineering, Master Academic Studies		
15.	Z478	Inform	aciono-tehi	nološka podrška održivom naziv na engleskom)	razvoju	(Z20) Envi	ronmental Engineering, Master Academic Studies		
16.	H797	Mecha	tronics in n	nechanization - advanced	topics	· ,	chatronics, Master Academic Studies		
17.	SZSP14	Conter	mporary ap	proach to the biosystems	engineering	(Z00) Env Studies	ironmental Engineering, Specialised Academic		
18.	SZSP16	-	-	newable enery sources in	-	(Z00) Env Studies	ironmental Engineering, Specialised Academic		
19.	SZSP18			entific approaches in life c oducts (LCA)	ycle	( Z00) Env Studies	ironmental Engineering, Specialised Academic		
20.	ZCM12	Logistic of energy biomass				( ZC0) Clean Energy Technologies, Master Academic Studies			
21.	ZR406A	System Regulations and EU Practice in Od Health and Safety				、 ,	ety at Work, Master Academic Studies		
22.	DM207	Standardization in biosystems engineering safety			related to the	(Z01) Safe	ety at Work, Doctoral Academic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

LIST O	ist of courses being held by the teacher in the accredited study programmes								
	ID	ID Course name Study programme name, study type							
23.	DOM24	Procedure and Machines for Sustain	able Agriculture	(M00) Mechanic	al Engineering, Doctoral Ac	cademic Studies			
24.	HDOK11 Advanced Application of ICT in Agriculture (H00) Mechatronics, Doctoral Academic Studies								
25.	HDOL11 Advanced application of ICT in agriculture (H00) Mechatronics, Doctoral Academic Studies								
26.	ZSP14 Contemporary Approaches to Sustainable Engineering (Z00) Environmental Engineering, Doctoral Academic Studies								
27.	ZSP16 Engineering of Renewable Energy in Agriculture (OM1) Mathematics in Engineering, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic								
				Studies	entar Engineering, Dootorar	/ loudernie			
28.	ZRD235	Systemic regulation in the field of oc and health	cupational safety	(Z01) Safety at	Work, Doctoral Academic S	tudies			
Rep	oresentative	refferences (minimum 5, not more th	an 10)						
1.	<ul> <li>Bojić S., Golub M., Müller J., Obradović R., Martinov M.: Convective drying of naked seeded oil pumpkin seeds (Cucurbita pepo L.) in a medium scale batch dryer with different modes of air circulation., Zeitschrift für Arznei- und Gewürzpflanzen, 2012, Vol. 17, No 3, pp. 108-115, ISSN 1431-9292</li> </ul>								
2.	2. Đatkov Đ., Effenberger M., Lehner A., Martinov M., Tešić M., Gronauer A.: New method for assessing the performance of agricultural biogas plants, Renewable energy, 2012, Vol. 40, No 1, pp. 104-112								
3.	Gavrić M., Martinov M., Bojić S., Đatkov Đ., Pavlović M.: Short- and long-term dynamic accuracies determination of satellite- based positioning devices using a specially designed testing facility, Computer and Electronics in Agriculture, Elsevier, Amsterdam, the Netherlands, 2011, Vol. 76, No 2, pp. 297-305								
4.		I., Martinov M., Dallemand J.: Assess and limitations for bioenergy use, Wa							
5.		n M., Starcevic N., Martinov M., Maur 2544-2548	er C., Mueller J.: App	licability of biogas	digestate as solid fuel, Fue	el, 2010, Vol. 89,			
6.		M, Mujic I, Müller J. 2007. Impact of d t für Arznei- und Gewürzpflanzen, 12(		on course of dryin	g and quality of Hypericum	perforatum L.			
7.		M., Veselinov B., Bojić S., Đatkov Đ.: International Scientific Journal, 2011				el, Thermal			
8.		Mujić, I., Martinov, M., Velić, D., Bilić istic of wild asparagus Czech Journal			Irying procedure on colour a	and rehydration			
9.		S, Martinov, M. 2007. Medicinal and A Press, New York.	romatic Crops, Harve	sting, Drying and	Processing, Haworth Food	and Agricultural			
10.	Martinov, M., Tesic, M. and M. Ilic. 2006. Latest developments on RES policy, implementation and planning in Serbia. Workshop:								
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total :		20						
Total	of SCI(SSC	CI) list papers :	10	ii					
Curre	ent projects	:	Domestic :	4	International :	1			



## Study Programme Accreditation



#### Mechatronics

Academic IIII:         Assistant Professor           Name of the Institution where the teacher works full time and starting date:         Faculty of Technical Sciences - Novi Sad           Academic carter         Year         Institution of the Institution of the Institution           Academic carter         Year         Institution date:           Academic carter         Year         Institution           PhD thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           PhD thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Bacheolry is thesis         1990         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Ibit of courses being held by the teacher in the accredited study programmes         Used programme name, study type         Ist of courses have a study type           1         H100         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2         H100         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           3         H1402         Automation of work processe         (H00) Mechatronics, Undergraduate Academic Studies           4         H1504         Computer	Name and last name:					Ostojić M. Gordana			
starting date:         06 03 2000           Scientific or at field         Mechatronics, Robotics and Automation and Integral Systems           Acade-mic card field         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Magister thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Bachelor is thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Bachelor is thesis         1999         Faculty of Technical Sciences - Novi Sad         Quality, Effectiveness and Logistics           It         H105         Course name         Study programme name, study type           1         H105         Fundamentals in Programming         (H00) Mechatronics, Undergraduate Academic Studies           3         H103         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           6         H1101         Computer nets of science         (H00) Mechatronics, Undergraduate Academic Studies           7         BM168         Acquisition, analysis and monitoring of mecical data         SBM0) Biomedical Engineering, Undergraduate Academic Studies           8         BM1106         Computer intergraduate Academic Studies         SBM0) Biomedical Eng	Academic title:					· · ·			
starting date:         06.03.2000           Scientific or at field:         06.03.2000           Academic carlier         Year         Institution         Field           Academic carlier         Year         Institution         Field           Academic carlier         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           N=D thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           N=D thesis         2003         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           N=D thesis         1999         Faculty of Technical Sciences - Novi Sad         Quality, Effectiveness and Logistics           List of courses beine Hold by the teacter in the accredited study programme=         Edudy programme name, study type           1         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           3         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           6         H1504         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           7         BM116B         Acquisition, analysis and moninoring of medical dat			itution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad			
Academic carieer         Year         Institution         Field           Academic title election         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Inlegal Systems           PhD thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           Magister thesis         2003         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           Bachelor's thesis         1999         Faculty of Technical Sciences - Novi Sad         Quality, Effectiveness and Logistics           Lit         Course being held by the teacher in the accredited study programmes         Quality, Effectiveness and Logistics           Lit         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           1.         H105         Fundamentals in Programming         (H00) Mechatronics, Undergraduate Academic Studies           2.         H106         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1506         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies <t< td=""><td>starti</td><td>ng date:</td><td></td><td></td><td></td><td>06.03.2000</td><td colspan="3"></td></t<>	starti	ng date:				06.03.2000			
Academic title election:         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Integral Systems           Magister thesis         2008         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           Magister thesis         2003         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robotics and Automation and Intelligent Systems           ID         Courses being held by the teacher in the accredited study programmes         Quality, Effectiveness and Logistics           ILIST of courses being held by the teacher in the accredited study programme         Study programme name, study type           1.         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2.         H109         Fundamentals in Programming         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1404         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1504         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           6.         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7.         BM1162         Automatic identification in bioengineering         (BM0) Biomedical Engineering, Undergr	Scier	ntific or art f	ield:			Mechatronics, Robotics and Automation and Integral Systems			
Academic Title election         2008         Faculty of Technical Sciences - Novi Sad         Integral Systems           PhD thesis         2008         Faculty of Technical Sciences - Novi Sad         Machatronics, Robolics and Automation and Intelligent Systems           Magister thesis         2008         Faculty of Technical Sciences - Novi Sad         Machatronics, Robolics and Automation and Intelligent Systems           Ib         Course name         Side Viet of Technical Sciences - Novi Sad         Quality, Effectiveness and Logistics           1         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2         H109         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           3         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           5         H1504         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           6         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7         BM1168         Acquisition, analysis and monitoring of medical data         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8         BM1106         Rehabilitation devices and systems         (H00) Mechatronics, Undergraduate Academic	Acad	emic cariee	er	Year	Institution			Field	
PID Inerso         2000         Paculty of Technical Sciences - Novi Sad         Intelligent Systems           Magister thesis         2003         Faculty of Technical Sciences - Novi Sad         Mechatronics, Robbits and Automation and Intelligent Systems           Bachelor's thesis         1999         Faculty of Technical Sciences - Novi Sad         Quality, Effectiveness and Logistics           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type         1           1         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2         H103         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           3         H1401         Systems for Survalance and Visualisation of Process (H00) Mechatronics, Undergraduate Academic Studies           6         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7         BM116B         Acquisition, analysis and monitoring of medical data         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8         BM110C         Melon control         (BM0) Biomedical Engineering, Undergraduate Academic Studies           10         BM1106         Rehabilitation devices and systems         (H00) Industrial Engineering, Undergraduate Academic Studies	Acad	emic title el	ection:	2008	Faculty of Technical Scie	ences - Novi S	ad		
Midglight metrics         2003         Production Sciences - Novi Sad         Intelligent Systems           Backelor's thesis         1999         Faculty of Technical Sciences - Novi Sad         Quality. Effectiveness and Logistics           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type           1.         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2.         H109         Fundamentals in Programming         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1504         Systems for Survalance and Visualisation of Process         (H00) Mechatronics, Undergraduate Academic Studies           6.         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7.         BM116E         Acutomatic identification in bioengineering         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8.         BM1106         Rehabilitation devices and systems         (110) Industrial Engineering, Undergraduate Academic Studies           11.         II100         Automatic identification systems         (110) Industrial Engineering, Undergraduate Academic Studies           11.	PhD	thesis		2008	Faculty of Technical Scie	ences - Novi S	ad		
List of courses being held by the teacher in the accredited study programmes           ID         Course name         Study programme name, study type           1.         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2.         H109         Fundamentals in Programming         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           4.         H1501A         Systems for Survaliance and Visualisation of Process         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1504         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           6.         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7.         BM116E         Acquisition, analysis and monitoring of medical data         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8.         BM119C         Automatic identification in bioengineering         (BM0) Biomedical Engineering, Undergraduate Academic Studies           10.         BM1106         Rehabilitation devices and systems         (H10) Industrial Engineering, Undergraduate Academic Studies           11.         II1009         Automatic identification systems	Magi	ster thesis		2003	Faculty of Technical Scie	ences - Novi S	ad		
ID         Course name         Study programme name, study type           1.         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1403         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           4.         H1501A         Systems for Survaliance and Visualisation of Process         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1504         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           6.         H310         Computer Integration of Production Systems         (H00) Mechatronics, Undergraduate Academic Studies           7.         BM116B         Acquisition, analysis and monitoring of medical data         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8.         BM116C         Automatic identification in bioengineering         (BM0) Biomedical Engineering, Undergraduate Academic Studies           10.         BM1106         Rehabilitation devices and systems         (H10) Industrial Engineering, Undergraduate Academic Studies           11.         II1009         Automatic identification systems         (H10) Industrial Engineering, Undergraduate Academic Studies           12.         II1010         Control of technical systems         (H10) Industrial Engineering, Undergraduate Academic Studies	Bach	elor's thesis	S	1999	Faculty of Technical Scie	ences - Novi S	ad	Quality, Effectiveness and Logistics	
Image: Non-State         Image: Non-State           1.         H105         Fundamentals in Computer science         (H00) Mechatronics, Undergraduate Academic Studies           2.         H103         Automation of work processes         (H00) Mechatronics, Undergraduate Academic Studies           3.         H1403         Automation of Work processes         (H00) Mechatronics, Undergraduate Academic Studies           5.         H1504         Systems for Survaliance and Visualisation of Process         (H00) Mechatronics, Undergraduate Academic Studies           6.         H310         Components of technological systems         (H00) Mechatronics, Undergraduate Academic Studies           7.         BM1166         Acquisition, analysis and monitoring of medical data         (BM0) Biomedical Engineering, Undergraduate Academic Studies           8.         BM116C         Motion control         (BM0) Biomedical Engineering, Undergraduate Academic Studies           10.         BM1190         Automatic identification in bioengineering         (BM0) Biomedical Engineering, Undergraduate Academic Studies           11.         II100         Automatic identification systems         (I10) Industrial Engineering, Undergraduate Academic Studies           12.         II1010         Control of technical systems         (I10) Industrial Engineering, Undergraduate Academic Studies           13.         II1015         Programmable L	List c	of courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	es		
2.       H109       Fundamentals in Programming       (H00) Mechatronics, Undergraduate Academic Studies         3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic Studies         4.       H1501A       Systems for Survailance and Visualisation of Process       (H00) Mechatronics, Undergraduate Academic Studies         5.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic Studies         6.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic Studies         7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         8.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (110) Industrial Engineering, Undergraduate Academic Studies         11.       Il1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       Il1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       Il1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       Il1029<		ID	Course	e name			Study pro	gramme name, study type	
3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic Studies         4.       H1501A       Systems for Survailance and Visualisation of Process       (H00) Mechatronics, Undergraduate Academic Studies         5.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic Studies         6.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic Studies         7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       Il1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       Il1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       Il1012       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       Il1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15. <td>1.</td> <td>H105</td> <td>Funda</td> <td>mentals in (</td> <td>Computer science</td> <td></td> <td>( H00) Med</td> <td>chatronics, Undergraduate Academic Studies</td>	1.	H105	Funda	mentals in (	Computer science		( H00) Med	chatronics, Undergraduate Academic Studies	
3.       H1403       Automation of work processes       (H00) Mechatronics, Undergraduate Academic Studies         4.       H1501A       Systems for Survailance and Visualisation of Process       (H00) Mechatronics, Undergraduate Academic Studies         5.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic Studies         6.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic Studies         7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       Il1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       Il1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       Il1012       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       Il1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15. <td>2.</td> <td>H109</td> <td></td> <td></td> <td></td> <td></td> <td>(H00) Med</td> <td>chatronics, Undergraduate Academic Studies</td>	2.	H109					(H00) Med	chatronics, Undergraduate Academic Studies	
5.       H1504       Computer Integration of Production Systems       (H00) Mechatronics, Undergraduate Academic Studies         6.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic Studies         7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         8.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM119C       Automatic identification in bioengineering       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies	3.	H1403	Autom	ation of wo	rk processes				
6.       H310       Components of technological systems       (H00) Mechatronics, Undergraduate Academic Studies         7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         8.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM119C       Automatic identification in bioengineering       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering Management, Undergraduate Academic Studies<	4.	H1501A	Systen	ns for Surva	ailance and Visualisation o	of Process	(H00) Med	chatronics, Undergraduate Academic Studies	
7.       BM116B       Acquisition, analysis and monitoring of medical data       (BM0) Biomedical Engineering, Undergraduate Academic Studies         8.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM119C       Automatic identification in bioengineering       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduat	5.	H1504	Compu	uter Integra	tion of Production System	S	( H00) Med	chatronics, Undergraduate Academic Studies	
7.       BM TIBB       Acquisition, analysis and monitoling of medical data       Studies         8.       BM116C       Motion control       (BM0) Biomedical Engineering, Undergraduate Academic Studies         9.       BM119C       Automatic identification in bioengineering       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (110) Industrial Engineering Management, Undergraduate Academic Studies <tr< td=""><td>6.</td><td>H310</td><td>Compo</td><td>onents of te</td><td>chnological systems</td><td></td><td>( H00) Mec</td><td>chatronics, Undergraduate Academic Studies</td></tr<>	6.	H310	Compo	onents of te	chnological systems		( H00) Mec	chatronics, Undergraduate Academic Studies	
a.       BM1100       Multiculturit       Studies         9.       BM119C       Automatic identification in bioengineering       (BM0) Biomedical Engineering, Undergraduate Academic Studies         10.       BM1106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1033       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.	7.	BM116B	Acquis	ition, analy	sis and monitoring of med	ical data			
Studies       Studies         10.       BMI106       Rehabilitation devices and systems       (BM0) Biomedical Engineering, Undergraduate Academic Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (120) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robo	8.	BM116C	Motion control					medical Engineering, Undergraduate Academic	
10.       BMINO       Renabilitation devices and systems       Studies         11.       II1009       Automatic identification systems       (110) Industrial Engineering, Undergraduate Academic Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (120) Engineering, Maagement, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (110) Industrial Engineering, Master Academic Studies	9.	BM119C	Automatic identification in bioengineering					medical Engineering, Undergraduate Academic	
11.       Introde       Audinatic identification systems       Studies         12.       II1010       Control of technical systems       (110) Industrial Engineering, Undergraduate Academic Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (I20) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification       (112) Industrial Engineering, Specialised Academic Studies <td>10.</td> <td>BMI106</td> <td>Rehab</td> <td>ilitation dev</td> <td>rices and systems</td> <td></td> <td></td> <td>medical Engineering, Undergraduate Academic</td>	10.	BMI106	Rehab	ilitation dev	rices and systems			medical Engineering, Undergraduate Academic	
12.       INUID       Control of rechnical systems       Studies         13.       II1015       Programmable Logic Controllers (PLC)       (110) Industrial Engineering, Undergraduate Academic Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (120) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	11.	II1009	Autom	atic identific	cation systems		Studies		
13.       Infors       Programmable Logic Controllers (PLC)       Studies         14.       II1029       Computer integrated manufacturing       (110) Industrial Engineering, Undergraduate Academic Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (I20) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	12.	II1010	Contro	I of technic	al systems			strial Engineering, Undergraduate Academic	
14.       111029       Computer integrated manufacturing       Studies         15.       II1045       Systems for measurement, surveillance and control       (110) Industrial Engineering, Undergraduate Academic Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (I20) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (I12) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (I12) Industrial Engineering, Specialised Academic Studies         24.       HDOS14       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	13.	II1015	Progra	immable Lo	gic Controllers (PLC)				
15.       Interst Systems for measurement, surveinance and control       Studies         16.       II1048       Artificial intelligence in engineering       (110) Industrial Engineering, Undergraduate Academic Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (I20) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (I12) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (I12) Industrial Engineering, Specialised Academic Studies         22.       HDOS14       Motion control and application of MEMS       (I12) Industrial Engineering, Specialised Academic Studies	14.	ll1029	Compu	uter integrat	ted manufacturing		Ot all a s		
16.       III 1048       Artificial intelligence in engineering       Studies         17.       IM1022       Fundamentals of technical systems control       (120) Engineering Management, Undergraduate Academic Studies         18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (120) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	15.	ll1045	System	ns for meas	surement, surveillance and	d control			
17.IM1022Fundamentals of technical systems controlStudies (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies18.IM1035Identification technologies in enterprises(120) Engineering Management, Undergraduate Academic Studies19.IM1117Computer integrated manufacturing (CIM)(120) Engineering Management, Undergraduate Academic Studies20.H1503Non Industrial Robotics and Automation in Buildings(H00) Mechatronics, Master Academic Studies21.HDOS12Research in the area of automatic identification technology(112) Industrial Engineering, Specialised Academic Studies22.HDOS14Motion control and application of MEMS(112) Industrial Engineering, Specialised Academic Studies	16.	ll1048	Artificia	al intelligen	ce in engineering				
18.       IM1035       Identification technologies in enterprises       (120) Engineering Management, Undergraduate Academic Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (120) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	17	IM1022	Funda	mentals of	technical systems control			neering Management, Undergraduate Academic	
18.       INFIGUS       Identification technologies in enterprises       Studies         19.       IM1117       Computer integrated manufacturing (CIM)       (I20) Engineering Management, Undergraduate Academic Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies			. and		Section of the sectio		Undergrad	uate Academic Studies	
19.       INFTTY       Computer Integrated manufacturing (CiW)       Studies         20.       H1503       Non Industrial Robotics and Automation in Buildings       (H00) Mechatronics, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	18.	IM1035	ldentifi	cation tech	nologies in enterprises			neering Management, Undergraduate Academic	
20.       H1503       Non Industrial Robotics and Automation in Buildings       (110) Industrial Engineering, Master Academic Studies         21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	19.	IM1117	Compu	uter integrat	ted manufacturing (CIM)			neering Management, Undergraduate Academic	
21.       HDOS12       Research in the area of automatic identification technology       (112) Industrial Engineering, Specialised Academic Studies         22.       HDOS13       Motion control and application of MEMS       (112) Industrial Engineering, Specialised Academic Studies	20.	H1503	Non In	dustrial Rol	botics and Automation in E	Buildings	`´´´		
22.     Motion control and application of MEMS     (142) Industrial Engineering, Specialized Academic Obudies       HDOS14     (142) Industrial Engineering, Operation of MEMS	21.				rea of automatic identifica	tion	, ,		
23. HDOS14 Nonindustrial automation (112) Industrial Engineering, Specialised Academic Studies	22.	HDOS13	Motion	control and	d application of MEMS		( 112) Indus	strial Engineering, Specialised Academic Studies	
	23.	HDOS14	Noning	dustrial auto	omation		( 112) Indus	strial Engineering, Specialised Academic Studies	

# ALCONTAS STUDIO RUM

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

## Study Programme Accreditation C STUDIES



MASTER ACADEMIC STUDIES

List c	ist of courses being held by the teacher in the accredited study programmes							
	ID	Course name	Study programme name, study type					
24.	IMDR0S	Selected chapters in enterprise's design, organization and control	<ul> <li>( I12) Industrial Engineering, Specialised Academic Studies</li> <li>( I22) Engineering Management, Specialised Academic Studies</li> </ul>					
25.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	( I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies					
26.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies					
27.	H845	Motion control	(H00) Mechatronics, Master Academic Studies (I10) Industrial Engineering, Master Academic Studies					
28.	1903	Application of microelectromechanical systems	(I10) Industrial Engineering, Master Academic Studies					
29.	1907	Automated Assembly Systems for High Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies					
30.	IIDS6	Selected chapters in automation	(I12) Industrial Engineering, Specialised Academic Studies					
31.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies					
32.	HDOK12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies					
33.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies					
34.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies					
35.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies					
36.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies					
37.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies					
38.	HDOL13	Motion controla and application of MEMS	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
39.	HDOL14	Nonindustrial automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
40.	IMDR0	Science of Industrial Engineering and Management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
41.	IMDR80	Selected chapters in automation	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
Rep	oresentative	e refferences (minimum 5, not more than 10)						
1.	Stankovs Courses,	ki S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Did IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. §	lactic Manipulator in Mechatronics and Industrial Engineering 572-579, ISSN 0018-9359					
2.	success	Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method factors – a case study in oil and gas industries (DOI:10.1086 SN 1751-7575	of evaluating the impact of ERP implementation critical 0/17517575.2012.690105), Enterprise Information Systems,					
3.		ki S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., I. 69, No 1, pp. 75-80, ISSN 0103-9016	Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola,					
4.	Simulatio	J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoim n of Fast Hydraulic Actuators, Iranian Journal of Science ar 11 , pp. 95-106, ISSN 2228-6187.	enov M., Petrović D., Ostojić G., Stankovski S.: Computer nd Technology - Transactions of Mechanical Engineering, Vol.					
5.		ki S., Ostojić G., Tarjan L., Škrinjar D., Lazarević M.: IML R and Technology - Transactions of Mechanical Engineering,						
6.		3., Popović N., Mijić D., Stankovski S., Ostojić G.: Remote A LabVIEW-based Implementation DOI: 10.1002/cae.2053 51-3773						
7.		)., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič environment, Assembly Automation, 2011, Vol. 31, No 1, pp	5 J., Simeunović N.: Machining fixture assembly/disassembly . 62-68, ISSN 0144-5154					
8.	Ostojić, C	G., Stankovski, S.: Sistemi i uređaji za praćenje proizvoda to	kom životnog ciklusa, Fakultet tehničkih nauka, 2012					
9.	MECHAT		OPMENT AND IMPLEMENTATION OF DIDACTIC SETS IN ternational Journal of Engineering Education; 2010, Vol. 26,					
	2 T F							

4	TAS STUD		UNIVERSITY OF NO	VI SAD		HAKNX H		
M	IOR COR	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	NCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6				
NO. 26		Study F	Programme A	ccreditatio	on	Con Con		
Of	LANTER	MASTER ACADEMIC STUDIES			Mechatronics	HO		
Representative refferences (minimum 5, not more than 10)								
10.	<ul> <li>Popkonstantinović B., Miladinović Lj., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: DESIGN, MODELLING AND MOTION</li> <li>SIMULATION OF THE REMONTOIRE MECHANISM, Transactions of FAMENA, 2011, Vol. 35, No 2, pp. 79-93, ISSN 1333-1124.</li> </ul>							
Sur	nmary data fo	r teacher's scientific or art and profe	essional activity:					
Quotation total : 25								
Total of SCI(SSCI) list papers : 17								
Current projects :     Domestic :     3     International :     2								



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Academic Ulle:         Assistant Professor           Name of the institution where the teacher works full time and Scientific or at field:         Telecommunications and Signal Processing           Academic carrier         Year         Institution           Academic carrier         Year         Institution           Academic carrier         Year         Institution           PhD thesis         2001         University of Technical Sciences - Novi Sad         Telecommunications and Signal Processing           Bachelor's fields         -         Telecommunications and Signal Processing           Magister thesis         -         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Telecommunications and Signal Processing           List of course heating held by the teacher in the accredited study programme name, study type         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           3         BMI121         Image processing and Computer Vision in Medical         (BMD) Biomedical Engineering, Undergraduate Academic Studies           4         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           5         EK464         Communication Systems Design         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies	Nam	e and last n	ame:			Petrović S. Vladimir				
starting date:         Institution         Field           Scientific or art field:         Telecommunications and Signal Processing           Academic career         Year         Institution         Field           Academic career         Year         Institution         Field           Academic career         Year         Institution         Field           Academic career         Year         Inversity of Technical Sciences - Novi Sad         Telecommunications and Signal Processing           Bachelor's thesis         -         Telecommunications and Signal Processing         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Telecommunications and Signal Processing           1         EK400         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           2         EK412         Shape Recognition         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           3         BMI12         Image processing and Computer Vision in Medical         (BM0) Biomedical Engineering, Undergraduate Academic Studies           5         EK464         Communication Systems Design         (E10) Power, Electronic and Telecommunication, Engineering, Undergraduate Academic Studies           6         EK520         In										
Scientific or art field:         Telecommunications and Signal Processing           Academic title dection:         2001         Field           Academic title dection:         2001         University of Manchester - Padej         Telecommunications and Signal Processing           Bachelor's thesis         -         Telecommunications and Signal Processing           Bachelor's thesis         -         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programme name, study type         (E10) Power, Electronic and Telecommunication           1.         EK3300         Digital Modulations         (E10) Power, Electronic and Telecommunication           1.         EK432         Shape Recognition         (BMD) Biomedical Engineering, Undergraduate Academic Studies           2.         EK412         Shape Recognition         (E10) Power, Electronic and Telecommunication           1.         Image processing and Computer Vision in Medical         (BMD) Biomedical Engineering, Undergraduate Academic Studies           3.         BMI121         Image processing         (G11) Power, Electronic and Telecommunication           6.         EK463         Pattern Recognition         (G11) Power, Electronic and Telecommunication	Nam	e of the inst	titution v	vhere the te	acher works full time and	-				
Academic carieer         Year         Institution         Field           Academic title election:         2009         Faculty of Technical Sciences - Novi Sad         Telecommunications and Signal Processing           Bachelor's thesis         2001         University of Manchester - Padej         Telecommunications and Signal Processing           Bachelor's thesis         -         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         (E10) Power, Electronic and Telecommunication           1.         EK4300         Digital Modulations         (E10) Power, Electronic and Telecommunication           2.         EK412         Shape Recognition         (SM0) Biomedical Engineering. Undergraduate Academic Studies           3.         BMI121         Image processing and Computer Vision in Medical Studies         (E10) Power, Electronic and Telecommunication           Engineering.         Undergraduate Academic Studies         (E10) Power, Electronic and Telecommunication           6.         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication           7.         EK521         Information and Communication Theory         (E10) Power, Electronic and Telecommunication           <	starting date:									
Academic title election         2009         Faculty of Technical Sciences - Novi Sad         Telecommunications and Signal Processing           PhD hesis         2011         University of Manchester - Padej         Telecommunications and Signal Processing           Bachelor's hesis         -         Telecommunications and Signal Processing           Magister thesis         -         Telecommunications and Signal Processing           Ib         Course name         Study programmes           Ib         Course name         Study programme name, study type           1.         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           2.         EK412         Shape Recognition         (BM0) Biomedical Engineering, Undergraduate Academic Studies           3.         BMI121         Image processing and Computer Vision in Medical Ingineering. Undergraduate Academic Studies           4.         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunications, Undergraduate Academic Studies           5.         EK464         Communication Systems Design         (S01) Posali Traffic and Telecommunication Engineering. Undergraduate Academic Studies           6.         EK520         Information and Communication Theory         (S01) Power, Electronic and Telecommunication Engineering. Mater Academic Studies	Scier	ntific or art f	ield:		ī	Telecommun	ications and	Signal Processing		
PhD thesis         2001         University of Manchester - Padej         Telecommunications and Signal Processing           Bachelor's thesis         -         Telecommunications and Signal Processing           Ingister thesis         -         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programme name, study type         Telecommunications and Signal Processing           1         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication           2         EK412         Shape Recognition         (SM0) Biomedical Engineering, Undergraduate Academic Studies           3         BMI121         Image processing and Computer Vision in Medical Ingineering, Undergraduate Academic Studies         (SM0) Biomedical Engineering, Undergraduate Academic Studies           5         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies           7.         EK521         Information and Communication Theory         (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies           8.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies	Acad	emic cariee	er	Year	Institution			Field		
Bachelor's thesis         Imaging         Telecommunications and Signal Processing           Magister thesis         Imaging         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type           1         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           2         EK412         Shape Recognition         (EM0) Biomedical Engineering, Undergraduate Academic Studies           3         BM121         Image processing and Computer Vision in Medical Imaging         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           4.         EK463         Pattern Recognition         (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies           5.         EK464         Communication Systems Design         (S01) Postal Traffic and Telecommunication Engineering, Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies           7.         EK521         Information and Communication Theory         (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies           8.         H1420         Fundamentals in Mechanical Vision         (H00) Mechatronics and Telecommunication Engineering, Do	Acad	emic title el	lection:	2009	Faculty of Technical Sci	ences - Novi S	ad			
Magister thesis         -         Telecommunications and Signal Processing           List of courses being held by the teacher in the accredited study programmes         Study programme name, study type           ID         Course name         Study programme name, study type           I.         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering. Undergraduate Academic Studies           2.         EK412         Shape Recognition         (BM0) Biomedical Engineering. Undergraduate Academic Studies           3.         BM1121         Image processing and Computer Vision in Medical Inaging         (BM0) Biomedical Engineering. Undergraduate Academic Studies           5.         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering. Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (E10) Power, Electronic and Telecommunication Engineering. Undergraduate Academic Studies           7.         EK521         Information and Communication Theory         (S01) Postal Traffic and Telecommunication Engineering. Master Academic Studies           8.         H1420         Fundamentals in Mechanical Vision         (H00) Mechatronics, Master Academic Studies           9.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering. Master Academic Studies				2001	University of Mancheste	r - Padej		° °		
List of courses being held by the teacher in the accredited study programmes           ID         Course name         Study programme name, study type           1         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           2         EK412         Shape Recognition         (BM0) Biomedical Engineering, Undergraduate Academic Studies           3         BMI121         Image processing and Computer Vision in Medical         (BM0) Biomedical Engineering, Undergraduate Academic Studies           4.         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication Ergineering, Undergraduate Academic Studies           5.         EK464         Communication Systems Design         (S01) Postal Traffic and Telecommunication, Engineering, Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           7.         EK521         Information and Communication Theory         (S01) Postal Traffic and Telecommunication Engineering, Undergraduate Academic Studies           8.         H1420         Fundamentals in Mechanical Vision         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           9.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommu			s	-				° °		
ID         Course name         Study programme name, study type           1.         EK300         Digital Modulations         (E10) Power, Electronic and Telecommunication Engineering. Undergraduate Academic Studies           2.         EK412         Shape Recognition         (IBN0) Biomedical Engineering, Undergraduate Academic Studies           3.         BMI121         Image processing and Computer Vision in Medical Imaging         (BN0) Biomedical Engineering, Undergraduate Academic Studies           4.         EK463         Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           5.         EK464         Communication Systems Design         (IS01) Postal Traffic and Telecommunication Engineering, Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (IS01) Postal Traffic and Telecommunication Engineering, Master Academic Studies           7.         EK521         Information and Communication Theory         (IS01) Power, Electronic and Telecommunication Engineering, Datest Academic Studies           8.         H1420         Fundamentals in Mechanical Vision         (H00) Mechatronics, Master Academic Studies           9.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Duderial Academic Studies           8.         Petrovic V., Sublecive tests for image fusion evaluatio				-				Telecommunications and Signal Processing		
Image: Construction of the second s	List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es I			
1.       ERX00       Digital Modulations       Éngineering, Undergraduate Academic Studies         2.       EK412       Shape Recognition       (BM0) Biomedical Engineering, Undergraduate Academic Studies         3.       BM1121       Image processing and Computer Vision in Medical (Studies)       (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies         4.       EK463       Pattern Recognition       (E10) Power, Electronic and Telecommunication, Undergraduate Academic Studies         5.       EK464       communication Systems Design       (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies         6.       EK520       Medical Image Processing       (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies         7.       EK521       Information and Communication Theory       (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies         8.       H1420       Fundamentals in Mechanical Vision       (H00) Mechanomics, Master Academic Studies         9.       DE311       Selected Chapters in Pattern Recognition       (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies         1       Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2006, ISSN 166-2535         2       Petrović V., Babalola K., Cootes T., Wining C., Taylor C.: Computing Accurate Correspondences across Groups of Imag		ID	Course	e name			Study pro	gramme name, study type		
2.       EXAT2       Stagle Recognition       Studies         3.       BMI121       Image processing and Computer Vision in Medical       (BM0) Biomedical Engineering, Undergraduate Academic Studies         4.       EK463       Pattern Recognition       (E10) Power, Electronic and Telecommunication         5.       EK464       Communication Systems Design       (S01) Postal Traffic and Telecommunication Engineering, Undergraduate Academic Studies         6.       EK520       Medical Image Processing       (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies         7.       EK521       Information and Communication Theory       (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies         8.       H1420       Fundamentals in Mechanical Vision       (H00) Mechanomical and Telecommunication Engineering, Master Academic Studies         9.       DE311       Selected Chapters in Pattern Recognition       (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies         1       Petrovic V., Babalola K., Cootes T., Twining C., Taylor C: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 1662-2535         3       Petrovic V., Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535         4       Petrovic V., Xy	1.	EK300	Digital	Modulatior	IS					
3.       BMIT21       Imaging       Studies         4.       EK463       Pattern Recognition       (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies         5.       EK464       Communication Systems Design       (S11) Postal Traffic and Telecommunications, Undergraduate Academic Studies         6.       EK520       Medical Image Processing       (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies         7.       EK521       Information and Communication Theory       (S11) Postal Traffic and Telecommunication Engineering, Master Academic Studies         8.       H1420       Fundamentals in Mechanical Vision       (H00) Mechatronics, Master Academic Studies         9.       DE311       Selected Chapters in Pattern Recognition       (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies         1.       Petrović V, Babalola K, Cootes T, Twining C, Taylor C: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828         2.       Petrović V, Sabalola K, Cootes T, Twining C, Taylor C: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828         2.       Petrović V, Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 208-237, ISSN 1056-2535	2.	EK412	Shape	Recognitic	n			medical Engineering, Undergraduate Academic		
4.         EA463         Pattern Recognition         Engineering, Undergraduate Academic Studies           5.         EK464         Communication Systems Design         (S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies           6.         EK520         Medical Image Processing         (E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies           7.         EK521         Information and Communication Theory         (S01) Postal Traffic and Telecommunication Engineering, Master Academic Studies           8.         H1420         Fundamentals in Mechanical Vision         (H00) Mechatronics, Master Academic Studies           9.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies           1.         Petrović V., Babalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828           2.         Petrović V., Subalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828           2.         Petrović V., Subalola K., Cootes T., Toling C.: Taylor C:: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828	3.	BMI121			and Computer Vision in N	Medical	Studies			
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9.         DE311         Selected Chapters in Pattern Recognition         (E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies           Representative refferences (minimum 5, not more than 10)         Petrović V., Babalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828           2.         Petrović V., Cootes T.: Objectively Adaptive Image Fusion, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535           3.         Destrović V.: Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535           4.         Petrović V.: Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, pp. 208-216, ISSN 1566-2535           5.         Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, IEEE Transactions on Image Processing 2004, Vol. 13, No 2, pp. 228-237, ISSN 1057-7149           5.         Petrović V., Xydeas C.: Objective Evaluation of Signal-level Image Fusion Performance, INFORM FUSION, 2003, Vol. 4, pp. 167-183, ISSN 1566-2535           6.         Opg1-3286         V Petrović, T Cootes, C Twining, C Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp. 1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Artington,USA, 12-15 April 2007           V Petrović, T Cootes, C Twining, C T	0					Engineering, Master Academic Studies				
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<ol> <li>Petrović V., Babalola K., Cootes T., Twining C., Taylor C.: Computing Accurate Correspondences across Groups of Images, IEE Transactions on Pattern Analysis and Machine Intelligence, 2010, Vol. 32, No 11, pp. 1994-2005, ISSN 0162-8828</li> <li>Petrović V., Cootes T.: Objectively Adaptive Image Fusion, INFORM FUSION, 2007, Vol. 8, No 2, pp. 168-176, ISSN 1566-2535</li> <li>Petrović V.: Subjective tests for image fusion evaluation and objective metric validation, INFORM FUSION, 2007, Vol. 8, No 2, p 208-216, ISSN 1566-2535</li> <li>Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, IEEE Transactions on Image Processing 2004, Vol. 13, No 2, pp. 228-237, ISSN 1057-7149</li> <li>Petrović V., Xydeas C.: Sensor noise effects on signal-level image fusion performance, INFORM FUSION, 2003, Vol. 4, pp. 167-183, ISSN 1566-2535</li> <li>Petrović V., Xydeas C.: Objective Evaluation of Signal-level Image Fusion Performance, OPT ENG, 2005, Vol. 44, No 8, ISSN 0091-3286</li> <li>V Petrović, T. Cootes, C. Twining, C. Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.36773 Ariington,USA, 12-15 April 2007</li> <li>V Petrović, T. Cootes, R. Mills, C. Taylor, "Simultaneous Segmentation of Groups of Medical Images", Medical Image Understandir and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth, GB;17-18.07. 2007</li> <li>V Petrović, T. Cootes, R. Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp. 1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T. Cootes, C. Twining, A Mills, C. Taylor, "Automated Analysis of Deformable Structure in Groups of Images</li></ol>				•						
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<ul> <li>183, ISSN 1566-2535</li> <li>Petrović V., Xydeas C.: Objective Evaluation of Signal-level Image Fusion Performance, OPT ENG, 2005, Vol. 44, No 8, ISSN 0091-3286</li> <li>V Petrović, T Cootes, C Twining, C Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Arlington,USA, 12-15 April 2007</li> <li>V Petrović, T Cootes, A Mills, C Taylor, "Simultaneous Segmentation of Groups of Medical Images", Medical Image Understandir and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007</li> <li>V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T Cootes, C Twining, A Mills, C Taylor, "Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir</li> </ul>	4.					al-level image f	usion perfor	mance, IEEE Transactions on Image Processing,		
<ul> <li>0091-3286</li> <li>V Petrović, T Cootes, C Twining, C Taylor, "Simultaneous Registration, Segmentation and Modelling of Structure in Groups of Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Arlington,USA, 12-15 April 2007</li> <li>V Petrović, T Cootes, A Mills, C Taylor, "Simultaneous Segmentation of Groups of Medical Images", Medical Image Understandir and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007</li> <li>V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T Cootes, C Twining, A Mills, C Taylor, "Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir</li> </ul>	5.				sor noise effects on signa	al-level image f	usion perfor	mance, INFORM FUSION, 2003, Vol. 4, pp. 167-		
<ul> <li>7. Images", International Symposium on Biomedical Imaging: From Nano to Macro, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2; DOI: 10.1109/ISBI.2007.356773 Arlington,USA, 12-15 April 2007</li> <li>V Petrović, T Cootes, A Mills, C Taylor, "Simultaneous Segmentation of Groups of Medical Images", Medical Image Understandir and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007</li> <li>9. V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp. 1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T Cootes, C Twining, A Mills, C Taylor, "Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision Conference BMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir</li> </ul>	6.			eas C.: Obj	ective Evaluation of Signa	II-level Image F	usion Perfo	rmance, OPT ENG, 2005, Vol. 44, No 8, ISSN		
<ul> <li>and Analysis, MIUA2007, pp. 1-5; ISBN 1 901725 33 2; editors: Reyer Zwiggelaar, Frédéric Labrosse; University of Wales, Aberystwyth,GB;17-18.07. 2007</li> <li>V Petrović, T Cootes, R Pavlović, "Dynamic Image Fusion Performance Evaluation", Proceedings of 10th International Conference on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T Cootes, C Twining, A Mills, C Taylor, "Automated Analysis of Deformable Structure in Groups of Images", 18th British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir</li> </ul>	7.	Images", DOI: 10.1	Internat 1109/ISE	ional Symp 31.2007.356	osium on Biomedical Ima 773 Arlington,USA, 12-15	ging: From Nai April 2007	no to Macro,	, ISBI2007, pp.1-4; Print ISBN: 1-4244-0672-2;		
<ul> <li>on Information Fusion 2007, pp.1-7; Print ISBN: 978-0-662-45804-3; DOI: 10.1109/ICIF.2007.4408120; Quebec, 9-12 July 2007</li> <li>V Petrović, T Cootes, C Twining, A Mills, C Taylor, "Automated Analysis of Deformable Structure in Groups of Images", 18th</li> <li>British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir</li> </ul>	8.	and Anal	ysis, MI	UA2007, pp	o. 1-5; ISBN 1 901725 33					
10. British Machine Vision ConferenceBMVC2007, organised by the British Machine Vision Association;; Conference Chairs: Abhir	9.									
	10.	British Ma	achine \	/ision Confe	erenceBMVC2007, organi	sed by the Brit				

UNIVERSITY	OF	NOVI	SAD
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## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics 1359 Quotation total Total of SCI(SSCI) list papers : 7 2 International : Current projects : Domestic : 1



## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES

Name and last name:					Stankovski V. Stevan			
	emic title:				Full Professor			
Nam	e of the inst	titution v	where the te	acher works full time and	Faculty of Technical Sciences - Novi Sad			
starting date:			23.03.1987					
Scier	ntific or art f	ield:			Mechatronics	, Robotics a	nd Automation and Integral Systems	
Acad	emic caries	er	Year	Institution			Field	
Acad	emic title e	lection:	2005	Faculty of Technical Scie	ences - Novi S	ad	Mechatronics, Robotics and Automation and Integral Systems	
PhD	thesis		1994	School of Electrical Engi	ineering - Beog	grad	Electrical and Computer Engineering	
Magi	ster thesis		1991	School of Electrical Engi	ineering - Beog	grad	Electrical and Computer Engineering	
Bach	elor's thesis	S	1987	Faculty of Technical Scie	ences - Novi S	ad	Electrical and Computer 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	gramme name, study type	
1.	H105	Funda	mentals in (	Computer science		( H00) Med	chatronics, Undergraduate Academic Studies	
2.	H109	Funda	mentals in I	Programming		(H00) Med	chatronics, Undergraduate Academic Studies	
3.	H1403	Autom	ation of wo	rk processes		(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H1409		ent System			(H00) Med	chatronics, Undergraduate Academic Studies	
5.	H1410	Progra control		application of programma	able logic	( H00) Med	chatronics, Undergraduate Academic Studies	
6.	H1501A			ailance and Visualisation of	of Process	( H00) Med	chatronics, Undergraduate Academic Studies	
7.	H310	Compo	onents of te	chnological systems		(H00) Med	chatronics, Undergraduate Academic Studies	
						(H00) Mechatronics, Undergraduate Academic Studies		
8.	H311	Application of Sensors and Actuators				er, Electronic and Telecommunication g, Undergraduate Academic Studies		
9.	BM116C	Motion control			( BM0) Bio Studies	medical Engineering, Undergraduate Academic		
10.	BMI106	Rehabilitation devices and systems			( BM0) Bio Studies	medical Engineering, Undergraduate Academic		
11.	BMI110	Senso	rs and actu	ators in medicine		(BM0) Biomedical Engineering, Undergraduate Academic Studies		
12.	II1009	Autom	atic identific	cation systems		( I10) Industrial Engineering, Undergraduate Academic Studies		
13.	II1010	Contro	I of technic	al systems		( 110) Industrial Engineering, Undergraduate Academic Studies		
14.	II1011	Autom	ation of wo	rk processes 1		(110) Indus Studies	strial Engineering, Undergraduate Academic	
15.	II1015	Progra	immable Lo	gic Controllers (PLC)		( I10) Industrial Engineering, Undergraduate Academic Studies		
16.	II1038	Autom	ation of wo	rk processes 2		(110) Indus Studies	strial Engineering, Undergraduate Academic	
17.	II1042	Autom	ation of Co	ntinual Processes		(110) Indus Studies	strial Engineering, Undergraduate Academic	
18.	II1045	Systen	ns for meas	surement, surveillance and	d control	(110) Indus Studies	strial Engineering, Undergraduate Academic	
19.	II1048	Artificia	al intelligen	ce in engineering		Studies	strial Engineering, Undergraduate Academic	
20.	IM1022	Funda	mentals of	technical systems control		Studies	neering Management, Undergraduate Academic chanization and Construction Engineering,	
						Undergrad	uate Academic Studies	
21.	IM1035	ldentifi	cation tech	nologies in enterprises		Studies	neering Management, Undergraduate Academic	
22.	IM1719	Implen	nentation of	information systems in in	surance	Studies	neering Management, Undergraduate Academic	
23.	H505	Implen	nentation of	automated systems			chatronics, Master Academic Studies strial Engineering, Master Academic Studies	
						,		



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## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List o	of courses b	eing held by the teacher in the accredited study programme	28
	ID	Course name	Study programme name, study type
24.	HDOS12	Research in the area of automatic identification technology	(112) Industrial Engineering, Specialised Academic Studies
25.	HDOS13	Motion control and application of MEMS	(112) Industrial Engineering, Specialised Academic Studies
26.	HDOS14	Nonindustrial automation	(112) Industrial Engineering, Specialised Academic Studies
27.	IMDR0S	Selected chapters in enterprise's design, organization and control	(112) Industrial Engineering, Specialised Academic Studies (122) Engineering Management, Specialised Academic Studies
28.	MBA414	Integrated Business Processes	( 120) Engineering Management, Specialised Professional Studies ( 1B0) Engineering Management - MBA, Specialised Professional Studies
29.	PLM09	Systems and Devices for Tracking Products Through Life Cycle	(I1U) Industrial Engineering - Product Lifecycle Management and Development, Master Academic Studies
30.	NIT02	Factory Automation	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
31.	NIT06	Advanced Technologies for Manufacturing Support	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
32.	NIT08	Fundamentals of Computer Science and Informatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies
33.	GS006	Intelligent Buildings	(G10) Energy Efficiency in Buildings, Specialised Academic Studies
34.	H799	Fieldbuses and protocols	(H00) Mechatronics, Master Academic Studies
35.	H828	Advanced robotics	(H00) Mechatronics, Master Academic Studies
36.	H845	Motion control	(H00) Mechatronics, Master Academic Studies
07	1000		(110) Industrial Engineering, Master Academic Studies
37.	1903	Application of microelectromechanical systems	(110) Industrial Engineering, Master Academic Studies
38.	IIDS6	Selected chapters in automation	(112) Industrial Engineering, Specialised Academic Studies
39.	IM2516	Artificial Intelligence in Engineering	(I20) Engineering Management, Master Academic Studies
40.	IM2716	Automation systems in insurance	(I20) Engineering Management, Master Academic Studies
41.	IM2721	Systems for detection, alarming and warning	(I20) Engineering Management, Master Academic Studies
42.	GD018	Automation and Robotics in Construction	( G00) Civil Engineering, Doctoral Academic Studies ( OM1) Mathematics in Engineering, Doctoral Academic
43.	HDOK12	Research in the area of automatic identification technologies	Studies ( H00) Mechatronics, Doctoral Academic Studies
44.	HDOK13	Motion control and the application of MEMS	(H00) Mechatronics, Doctoral Academic Studies
45.	HDOK14	Non-industrial Automation	(H00) Mechatronics, Doctoral Academic Studies
46.	HDOK-3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
47.	HDOKL3	Selected Chapters in Automation Systems Integration	(H00) Mechatronics, Doctoral Academic Studies
48.	HDOL12	Research in the area of automatic identification technologies	(H00) Mechatronics, Doctoral Academic Studies
49.	HDOL13	Motion controla and application of MEMS	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
50.	HDOL14	Nonindustrial automation	( H00) Mechatronics, Doctoral Academic Studies ( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
51.	IMDR0	Science of Industrial Engineering and Management	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
52.	IMDR80	Selected chapters in automation	( I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies
Rep	oresentative	e refferences (minimum 5, not more than 10)	
1.		ki S., Tarjan L., Škrinjar D., Ostojić G., Šenk I.: Using a Did IEEE Transactions on Education, 2010, Vol. 53, No 4, pp. 5	lactic Manipulator in Mechatronics and Industrial Engineering 572-579, ISSN 0018-9359
<b>L</b>		· · ·	

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## Study Programme Accreditation



6	MASTER ACADEMIC STUDIES Mechatronics									
Re	presentative r	efferences (minimum 5, not more th	an 10)							
2.	<ul> <li>Gajić G., Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method of evaluating the impact of ERP implementation critical</li> <li>success factors – a case study in oil and gas industries (DOI:10.1080/17517575.2012.690105), Enterprise Information Systems, 2012, ISSN 1751-7575</li> </ul>									
3.	Stankovski S., Ostojić G., Šenk I., Rakić-Skoković M., Trivunović S., Kučević D.: Dairy cow monitoring by RFID, Scientia Agricola, 2012, Vol. 69, No 1, pp. 75-80, ISSN 0103-9016									
4.	Stankovski, S., Ostojić, G., Raković, M., Trajan, L., Šenk, I., Nikolić, M.: Zbirka rešenih zadataka iz: Programiranje i primena programabilno logičkih kontrolera, Fakulte tehničkih nauka, 2009									
5.	Stankovski, S., Rakić-Skoković, M., Šešlija, D., Ostojić, G.: Primena RFID tehnologije u automatizaciji									
6.	Stankovski S., Lazarević M., Ostojić G., Ćosić I., Purić R.: RFID Technology in Product/Part Tracking During the Whole Life Cycle , Assembly Automation, 2009, Vol. 29, No 4, pp. 364-370, ISSN 0144-5154									
7.	Ostojić G., Lazarević M., Stankovski S., Ćosić I.: RFID Technology Application in Disassembly Systems , Strojniski vestnik = Journal of Mechanical Engineering, 2008, Vol. 54, No 11, pp. 759-767, ISSN 0039-2480, UDK: 658.5									
8.		Popović N., Mijić D., Stankovski S. LabVIEW-based Implementation D 3773								
9.		S., Ostojić G., Tarjan L., Škrinjar D. Fechnology, 2011, Vol.35, No M1, p				Journal of				
10.	Janković J., Petrović N., Miladinović Lj., Popkonstantinović B., Stoimenov M., Petrović D., Ostojić G., Stankovski S.: Computer Simulation of Fast Hydraulic Actuators,Iranian Journal of Science & Technology, Transactions B, 2012, Vol. 36, No M1, pp. 95- 106, ISSN: 1028-6284									
Su	mmary data fo	r teacher's scientific or art and profe	essional activity:							
Quot	tation total :		25							
Tota	l of SCI(SSCI)	list papers :	20							
Curr	Current projects : Domestic : 3 International : 4									







Mechatronics

#### Science, arts and professional qualifications

MASTER ACADEMIC STUDIES

Name and last name:			Šešlija D. Dragan						
Academic title:			Full Professor						
		itution w	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				15.06.1985				
Scier	ntific or art f	ield:			Mechatronics, Robotics and Automation and Integral Systems				
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	ection:	2007	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Integral Systems		
PhD	thesis		1997	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems		
Magi	ster thesis		1989	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems		
Bach	elor's thesis	6	1981	Faculty of Technical Sci	ences - Novi S	ad	Internal Combustion Engines		
List o	f courses b	eing hel	ld by the tea	acher in the accredited stu	udy programme	es	•		
	ID	Course	e name			Study pro	ogramme name, study type		
1.	H1401	Materia	al Handling	Technologies		(H00) Med	chatronics, Undergraduate Academic Studies		
2.	H1403			rk processes		, ,	chatronics, Undergraduate Academic Studies		
3.	H1504			tion of Production System	S	. ,	chatronics, Undergraduate Academic Studies		
4.	H310		•	chnological systems		· /	chatronics, Undergraduate Academic Studies		
5.	II102	· ·		of industrial systems		(SII) Softw	vare and Information Technologies (Inđija), uate Professional Studies		
6.	II1000	Fundamentals of industrial engineering and management			management	( 110) Industrial Engineering, Undergraduate Academic Studies			
7.	II1011	Automation of work processes 1				(110) Indus Studies	ndustrial Engineering, Undergraduate Academic s		
8.	II1013	Material Handling Technologies			( I10) Indus Studies	strial Engineering, Undergraduate Academic			
9.	II1029	Compu	uter integrat	ted manufacturing	nanufacturing		(110) Industrial Engineering, Undergraduate Academic Studies		
10.	II1038	Autom	ation of wo	rk processes 2		(I10) Industrial Engineering, Undergraduate Academic Studies			
11.	II1042	Autom	ation of Co	ntinual Processes		( I10) Industrial Engineering, Undergraduate Academic Studies			
12.	IM1001	Funda	mentals of	industrial engineering		( I20) Engineering Management, Undergraduate Acaden Studies			
13.	IM1117	Compu	uter integrat	ted manufacturing (CIM)		(I20) Engineering Management, Undergraduate Academic Studies			
14.	H505	Implen	nentation of	f automated systems		·	chatronics, Master Academic Studies strial Engineering, Master Academic Studies		
15.	HDOK4 S	Select	ed chapters	from automation of work	processes	(112) Industrial Engineering, Specialised Academic Studies			
16.	1829		-	ckaging processes		, ,	strial Engineering, Master Academic Studies		
17.	1830	Energy	efficiency	of compressed air system	IS	( 110) Indu	strial Engineering, Master Academic Studies		
18.	IMDR0S	Selecte and co	•	s in enterprise's design, or	ganization	<ul> <li>(112) Industrial Engineering, Specialised Academic Studie</li> <li>(122) Engineering Management, Specialised Academic Studies</li> </ul>			
19.	PLM04	Sustai	nable Produ	uction and LCA			strial Engineering - Product Lifecycle Managemen opment, Master Academic Studies		
20.	LIM34	Materia	al Handling			( LIM) Logi Academic	istic Engineering and Management, Master Studies		
21.	NIT02	Factor	y Automatic	on			strial Engineering - Advanced Engineering ies, Master Academic Studies		
22.	NIT05	Advan	ced Techno	blogy for Material Handling	)	Technolog	istrial Engineering - Advanced Engineering ies, Master Academic Studies		
23.	BMIM4C	Fluid fi	Itration and	separation		(BM0) Bio	medical Engineering, Master Academic Studies		
24.	1911	Sustai	nable produ	uction		(110) Indu	strial Engineering, Master Academic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

	ID	Course name	Study programme name, study type					
25.	IIDS27 Selected chapters of the energy efficiency of automated (112) Industrial Engineering, Specialised Academic Stussers							
26.	6. IIDS6 Selected chapters in automation (112) Industrial Engineering, Specialised							
07	11.40.4.00		1	( 110) Industrial Engineering, Master Academic Studies				
27.	IM2103	New technologies in engineering and	a management	(I20) Engineering	g Management, Master Aca	demic Studies		
				(H00) Mechatro	nics, Doctoral Academic Stu	udies		
28.	HDOK-4	Selected Chapters in Production Pro	cess Automation	(I20) Industrial E Doctoral Academ	Engineering / Engineering M nic Studies	anagement,		
29.	HDOKL4	Selected chapters from automation of	of work processes	(H00) Mechatro	nics, Doctoral Academic Stu	ıdies		
30.	IMDR0	Science of Industrial Engineering and	d Management	(I20) Industrial E Doctoral Acaden	Engineering / Engineering M nic Studies	anagement,		
		Selected chapters from energy efficient	analy of comprosed	(H00) Mechatro	nics, Doctoral Academic Stu	udies		
31.	IMDR86	air systems	ency of compressed	(120) Industrial E Doctoral Academ	Engineering / Engineering M nic Studies	anagement,		
32.	22. IMDR80 Selected chapters in automation (120) Industrial Engineering / Engineering Management Doctoral Academic Studies							
Rep	Representative refferences (minimum 5, not more than 10)							
1.	Ignistović I. Komenda T. Češlija D. Malica V.: Optimication of compressed air and electricity consumption in a complex robotic							
2.	Dudić S.,	Ignjatović I., Šešlija D., Blagojević V., nermography, MEASUREMENT, 2012	Miodrag S.: Leakage	e quantification of	compressed air using ultras 263-2241	ound and		
3.	Ignjatović	I., Šešlija D., Tarjan L., Dudić S.: Wi strial Research (JSIR), 2012, Vol. 71,	reless sensor system	for monitoring of a		al of Scientific		
4.		Ignjatović I., Šešlija D., Blagojević V., sion, Thermal Science, 2012, Vol. 16,			of compressed air on pi	pes using		
5.		S., Šešlija D., Aleksandrov S., Todor ristics of a Pneumatic Actuator, Electr						
6.		ć V., Šešlija D., Stojiljković M., Dudić S Jing mode, Sadhana - Academy Proce				-pass valve and		
7.		ć V., Šešlija D., Miodrag S.: Cost effe and Industrial Research, 2011, Vol. 7			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 a	ir systems in Serbia, Africar	Journal of		
9.		, Ignjatović I., Dudić S.: Increasing th N 978-953-51-0800-9	e Energy Efficiency in	Compressed Air	Systems, Rijeka, InTech, 20	)12, str. 151-		
10.		ki S., Šešlija D., Rakić-Skoković M., C zaciju i mehatroniku, 2009, ISBN 978-i		FID tehnologije u a	automatizaciji, Novi Sad, Ce	entar za		
Sun	nmary data	for teacher's scientific or art and profe	essional activity:					
Quota	ation total :		10					
Total	of SCI(SSC	CI) list papers :	10					
Curre	ent projects	:	Domestic :	0	International :	3		



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Name and last name:			Šormaz N. D.	ušan					
	emic title:				Guest Profes				
		itution w	here the te	acher works full time and	-				
	ng date:								
	ntific or art f				Production Systems, Organization and Management				
Acad	emic cariee	er	Year	Institution	Field				
Acad	emic title el	ection:	2009				Production Systems, Organization and Management		
Magi	ster thesis		1995	University of Southern C	alifornia - Nepo	oznato	Computer Science		
PhD	thesis		1994	University of Southern C	alifornia - Nepo	oznato	Engineering Management		
Magi	ster thesis		1985	Faculty of Technical Sci	ences - Novi Sa	ad	Engineering Management		
	elor's thesis		1979	Faculty of Technical Sci			Plastic Deformation Technology		
List o	f courses b	eing hel	d by the tea	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	H1403	Autom	ation of wo	rk processes		(H00) Med	chatronics, Undergraduate Academic Studies		
2.	H1504	Compu	uter Integra	tion of Production System	s	(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H310	Compo	onents of te	chnological systems		(H00) Med	chatronics, Undergraduate Academic Studies		
4.	II102	The ba	sic theory o	of industrial systems		( SII) Softw Undergrad	vare and Information Technologies (Inđija), uate Professional Studies		
5.	II1000	Funda	mentals of i	industrial engineering and	management	(110) Indus Studies	strial Engineering, Undergraduate Academic		
6.	II1013	Material Handling Technologies				(110) Indus Studies	0) Industrial Engineering, Undergraduate Academic dies		
7.	IM1719	Implementation of information systems in ir			surance	(I20) Engin Studies	neering Management, Undergraduate Academic		
8.	EE546	Entrepreneurship in Electrical Engineering					er, Electronic and Telecommunication g, Master Academic Studies		
9.	H505	Implen	nentation of	automated systems			chatronics, Master Academic Studies strial Engineering, Master Academic Studies		
10.	1829	Autom	ation of pad	kaging processes			strial Engineering, Master Academic Studies		
11.	1830			of compressed air system	IS	( 110) Industrial Engineering, Master Academic Studies			
12.	IMDS56	Produc	t traceabili	ty during the lifetime		(112) Industrial Engineering, Specialised Academic Studies			
13.	IMDS57			and Designing Procedur	es and	(I12) Industrial Engineering, Specialised Academic Studies			
14.	IMDS62			nd of Product Lifecycle iness processes of compa	inies	( I22) Engi Studies	neering Management, Specialised Academic		
15.	IMDS93	Virtual	Enterprises	s and Collaborative Syster	ms	( 122) Engineering Management, Specialised Academic Studies			
16.	LIM34	Materia	al Handling				istic Engineering and Management, Master Studies		
17.	NIT02	Factor	y Automatio	on			istrial Engineering - Advanced Engineering ies, Master Academic Studies		
18.	NIT05	Advan	ced Techno	blogy for Material Handling	)		istrial Engineering - Advanced Engineering ies, Master Academic Studies		
19.	NIT08	Funda	mentals of	Computer Science and Inf	formatics	( NIT) Indu	istrial Engineering - Advanced Engineering ies, Master Academic Studies		
20.	1911	Sustainable production				( 110) Indu	strial Engineering, Master Academic Studies		
21.	IIDS10	Effective technological and production struc			tures	(112) Industrial Engineering, Specialised Academic Studies			
						Studies	neering Management, Specialised Academic		
22.	IIDS9	Effective Production and Service Systems				<ul> <li>(112) Industrial Engineering, Specialised Academic Studie</li> <li>(122) Engineering Management, Specialised Academic Studies</li> </ul>			
23.	IM2315	Product and Process Improvement Project				(120) Engineering Management, Master Academic Studies			
24.	IMDR31			on and Service Systems		( 120) Indu	strial Engineering / Engineering Management, cademic Studies		



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

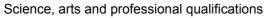
List c	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	me name, study type				
25.	IMDR56	Traceability of Product Lifecycle		(120) Industrial Engineering / Engineering Managemer Doctoral Academic Studies					
26.	IMDR62	Enterprise Business Process Integra	ation	( I20) Industrial I Doctoral Acader	Engineering / Engineering N nic Studies	lanagement,			
27.	IMDR93	Virtual Enterprises and Collaborative	e Systems	( I20) Industrial I Doctoral Acader	Engineering / Engineering N nic Studies	lanagement,			
28.	IMDR85	Effective technological and production structures (120) Industrial Engineering / Engineering Management, Doctoral Academic Studies							
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.	Sormaz DN, Arumugam J, Ganduri C, 2007, Integration of rule-based process selection with virtual machining for distributed manufacturing planning, Process Planning and Scheduling for Distributed Manufacturing, 61-90								
2.	Šormaz DN, Arumugam J, Harihara RS, Patel C, Neerukonda N, 2010, Integration of product design, process planning, scheduling, and FMS control using XML data representation, Robotics and Computer-Integrated Manufacturing 26 (6), 583-595								
3.	Šormaz DN, Rajaraman SN, 2008, Problem space search algorithm for manufacturing cell formation with alternative process plans, International Journal of Production Research 46 (2), 345-369								
4.		DN, Arumugam J, Rajaraman S, 2004 auring planning, International Journal o				listributed			
5.	Koonce [	D, Judd R, Sormaz D, Masel DT, 2003	, A hierarchical cost e	stimation tool, Co	mputers in Industry 50 (3),	293-302			
6.		DN, Khoshnevis B, 2003, Generation of the transformer term of the term of	of alternative process	plans in integrate	d manufacturing systems, J	ournal of			
7.	Šormaz [	DN, Tennety C, 2010, Recognition of i	nteracting volumetric f	eatures using 2D	hints, Assembly Automatio	n 30 (2), 131-141			
8.		DN, Pisipati DV, Borse PA, 2006, Virtu acturing technology and management		illing operations v	vith multiple tool paths, Inte	rnational journal			
9.		DN, Khoshnevis B, 2000, Modeling of curing systems, 19 (1), 28-45	manufacturing feature	interactions for a	utomated process planning	, Journal of			
10.	Nešić S, Li H, Huang J, Sormaz D, 2009, An open source mechanistic model for CO2/H2S Corrosion of carbon steel, CORROSION 2009, March 22 - 26, 2009, Atlanta, GA								
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
-	ation total :		126						
	`	CI) list papers :	10						
Curre	urrent projects : 0 International : 0								



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

### IES



Nam	Name and last name:				Šostakov S. Rastislav			
	emic title:				Assistant Professor			
Nam	e of the inst	itution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	ences - Novi Sad	
starti	ng date:				01.03.1974			
Scier	ntific or art f	eld:			Machine Con	structions, 1	Transport Systems and Logistics	
Acad	emic cariee	r	Year	Institution			Field	
Acad	emic title el	ection:	2012	Faculty of Technical Science	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
PhD	thesis		2007	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
Magi	ster thesis		1983	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
Bach	elor's thesis	3	1974	Faculty of Mechanical E	ngineering - No	ovi Sad	Machine Constructions, Transport Systems and Logistics	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es	•	
	ID	Course	e name			Study pro	ogramme name, study type	
1.	H2404	Drivino	Systems I	Mechatronics		( H00) Med	chatronics, Undergraduate Academic Studies	
2.	M2408	Cranes				( M20) Me	chanization and Construction Engineering, luate Academic Studies	
3.	M2507	Metho	ds of exper	imental testing of machine	es	( M20) Me	chanization and Construction Engineering, luate Academic Studies	
4.	M301	Driving	g Systems			( M20) Me	chanization and Construction Engineering, luate Academic Studies	
5.	M312A	Funda	montals of	Transportation Machines		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies		
5.	WIJ 12A	T UIIUA	mentals of	Transportation Machines			chnical Mechanics and Technical Design, luate Academic Studies	
6.	ZR308A			ty Equipment for working		(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	ZR407A	Occup wareh		ety in internal transport, rel	loading and	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
8.	M2526		ng Strength			(M22) Mechanization and Construction Engineering, Master Academic Studies		
9.	M2541	Occup Machir		ety and Protection in Oper	ation with	(M22) Mechanization and Construction Engineering, Master Academic Studies		
10.	LIM12	Transp	oort Technic	que and Material Flow		( LIM) Logistic Engineering and Management, Master Academic Studies		
11.	LIM27	Logisti	cs of Warel	housing and Commissioni	ng	(LIM) Logistic Engineering and Management, Master Academic Studies		
12.	LIM29	Simula	ation of Larg	ge Logistic Systems		( LIM) Logi Academic	istic Engineering and Management, Master Studies	
13.	H797	Mecha	tronics in n	nechanization - advanced	topics	(H00) Med	chatronics, Master Academic Studies	
14.	DM214		-	s in Working Strength		( M00) Me	chanical Engineering, Doctoral Academic Studies	
15.	DM331	Select Machir		s in Transport and Constru	uction	( M00) Me	chanical Engineering, Doctoral Academic Studies	
16.	DM410		ed Chapter	s in Food Processing Mac	hines and	( M00) Me	chanical Engineering, Doctoral Academic Studies	
17.	DOM25			ocedures for Mobile Mach	ine Designing	( M00) Me	chanical Engineering, Doctoral Academic Studies	
18.	DOM28	Modeli	ing and Sim	ulation of Driving System	S	( M00) Me	chanical Engineering, Doctoral Academic Studies	
19.	ZRD238			of development safety and nechanical engineering	health at	(Z01) Safe	ety at Work, Doctoral Academic Studies	
Rep				num 5, not more than 10)				
1.				stakov, N. Brkljač: Dynam I. 54, No 10, pp. 655-661,			ing Mechanisms, Strojniski vestnik - Journal of	
2.	N. Zubor, P. Čostakov, P. Pairić: Application of vibration signal analysis and artificial intelligence methods in fault identification of							
3.				Časnji: Surveying The Trar Mechanics, Kragujevac,			Of A Driving Mechanism With A Hydrodynamic 47-54	



Mechatronics



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

## Study Programme Accreditation

Service Service

Mechatronics

Representative refferences (minimum 5, not more than 10)         4.       D. Uzelac, R. Šostakov, S. Tašin: Starting Of An Electric Motor Drive With Hydrodynamic Coupling, "Facta Universitatis", Series "Mechanical Engineering", Nis, 1998, Vol. 1, No 5, p. 537-545         5.       R. Šostakov, D. Uzelac, N. Brkljač: Metodologija praćenja rada pogonskog mehanizma sa hidrodinamičkom spojnicom i određivanja trajanja njegovog zaleta, "Tennika, Mašinstvo", Beograd, 54(2005)3, str. 17-24         R. Šostakov, N. Babin, N. Brkljač: Analiza mogućnosti i postupaka uklapanja domaćih u međunarodne bazne standarde iz oblasti dizalica, I međunarodni naučno-stručni skup "Teška mašinogradnja "93", Kruševac, Vrnjačka Banja, 1993, Zbornik radova, str. 86 90         R. Šostakov, N. Babin, M. Zubic: The Concept Of Surveying The Transient States Of Crane Driving Mechanisms Operation Base On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 2.20-2.25         R. Sostakov, J. Vladic, D. Uzelac, N. Brkljac: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplur aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Ware-housing, ??Igrade, 11 12. 12. 1996, Collected Papers, p. 4.67-4.72         P. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Ware-housing, Belgrade, 11. 12. 12. 1996, Collected Papers, p. 4.99-4.102         10.       R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classificati								
<ul> <li>"Mechanical Engineering", Nis, 1998, Vol. 1, No 5, p. 537-545</li> <li>R. Šostakov, D. Uzelac, N. Brkljač: Metodologija praćenja rada pogonskog mehanizma sa hidrodinamičkom spojnicom i određivanja trajanja njegovog zaleta, "Tehnika, Mašinstvo", Beograd, 54(2005)3, str. 17-24</li> <li>R. Šostakov, N. Babin, N. Brkljač: Analiza mogućnosti i postupaka uklapanja domaćih u međunarodne bazne standarde iz oblasti dizalica, I međunarodni naučno-stručni skup "Teška mašinogradnja "93", Kruševac, Vrnjačka Banja, 1993, Zbornik radova, str. 85 90</li> <li>R. Sostakov, N. Babin, M. Zubic: The Concept Of Surveying The Transient States Of Crane Driving Mechanisms Operation Base On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 2.202.25</li> <li>R. Sostakov, J. Vladic, D. Uzelac, N. Brkljac: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplur aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Warehousing, ??Igrade, 11 12. 12. 1996, Collected Papers, p. 2.402.25</li> <li>R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. 12. 12. 1996, Collected Papers, p. 4.994.102</li> <li>R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. 12. 12. 1996, Collected Papers, p. 4.994.102</li> <li>R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167</li> <li>Summary data for tea</li></ul>	Re	presentative r	efferences (minimum 5, not more th	an 10)				
<ul> <li>određivanja trajanja njegovog zaleta, "Tehnika, Mašinstvo", Beograd, 54(2005)3, str. 17-24</li> <li>R. Šostakov, N. Babin, N. Brkljač: Analiza mogućnosti i postupaka uklapanja domaćih u međunarodne bazne standarde iz oblasti dizalica, I međunarodni naučno-stručni skup "Teška mašinogradnja "93", Kruševac, Vrnjačka Banja, 1993, Zbornik radova, str. 85 90</li> <li>R. Sostakov, N. Babin, M. Zubic: The Concept Of Surveying The Transient States Of Crane Driving Mechanisms Operation Base On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 2.202.25</li> <li>R. Sostakov, J. Vladic, D. Uzelac, N. Brkljac: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplur aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Ware-housing, ??Igrade, 11 12 12. 1996, Collected Papers, p. 4.674.72</li> <li>R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.994.102</li> <li>R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167</li> <li>Summary data for teacher's scientific or art and professional activity:</li> <li>Quotation total :</li> <li>0</li> <li>Total of SCI(SSCI) list papers :</li> </ul>	4.				With Hydrodynar	mic Coupling, "Facta Unive	rsitatis", Series	
<ul> <li>6. dizalica, I međunarodni naučno-stručni skup "Teška mašinogradnja "93", Kruševac, Vrnjačka Banja, 1993, Zbornik radova, str. 85 90</li> <li>R. Sostakov, N. Babin, M. Zubic: The Concept Of Surveying The Transient States Of Crane Driving Mechanisms Operation Base On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 2.202.25</li> <li>R. Sostakov, J. Vladic, D. Uzelac, N. Brkljac: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplur aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Ware-housing, ??Igrade, 11 12 12. 1996, Collected Papers, p. 4.674.72</li> <li>R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. 12. 1996, Collected Papers, p. 4.994.102</li> <li>R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167</li> <li>Summary data for teacher's scientific or art and professional activity: Quotation total : 0</li> <li>Total of SCI(SSCI) list papers : 2</li> </ul>	5.						nicom i	
<ul> <li>7. On The Operating Point Motion - Didactical And Practical Aspect, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 2.202.25</li> <li>R. Sostakov, J. Vladic, D. Uzelac, N. Brkljac: Berechnung der Anlaufdauer eines Antriebssystems mit hydrodynamischer Kupplur aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Ware¬housing, ??Igrade, 11 12. 12. 1996, Collected Papers, p. 4.674.72</li> <li>R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.994.102</li> <li>10. R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, 0.4.1624.167</li> <li>Summary data for teacher's scientific or art and professional activity:</li> <li>Quotation total :</li> <li>0</li> <li>Total of SCI(SSCI) list papers :</li> </ul>	6.	dizalica, I n						
8.       aufgrund des vereiniges M-n Diagrams, XIV International Conference on Material Handling and Ware¬housing, ??lgrade, 11 12         12. 1996, Collected Papers, p. 4.674.72         9.       R. Sostakov, P. Dragicevic, N. Babin, H. Licen: Subroutine For ON-LINE Discretisation And Classification Of A Stress-Time         9.       Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11.         12. 12. 1996, Collected Papers, p. 4.994.102         10.       R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167         Summary data for teacher's scientific or art and professional activity:       0         Quotation total :       0         10.       Total of SCI(SSCI) list papers :       2	7.							
9.       Function Using Modified Full Cycles Method, XIV International Conference on Material Handling and Warehousing, Belgrade, 11. 12. 12. 1996, Collected Papers, p. 4.994.102         10.       R. Sostakov, R. Jevremovic, M. Zubic: Electrical Motor Modelling As A Part Of Crane Driving Mechanism Modelling, XIV International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167         Summary data for teacher's scientific or art and professional activity:       0         Quotation total :       0         Total of SCI(SSCI) list papers :       2	8.	aufgrund d	es vereiniges M-n Diagrams, XIV In					
10.       International Conference on Material Handling and Warehousing, Belgrade, 11 12. 12. 1996, Collected Papers, p. 4.1624.167         Summary data for teacher's scientific or art and professional activity:         Quotation total :       0         Total of SCI(SSCI) list papers :       2	9.	Function U	sing Modified Full Cycles Method, X	(IV International Confe				
Quotation total :     0       Total of SCI(SSCI) list papers :     2	10.							
Total of SCI(SSCI) list papers : 2	Su	mmary data fo	or teacher's scientific or art and profe	essional activity:				
	Quo	tation total :		0				
Current projects :     Domestic :     1     International :     0	Tota	I of SCI(SSCI	) list papers :	2				
	Current projects :			Domestic :	1	International :	0	



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

Name and last name:					Veselinov V. Branislav			
	lemic title:				Associate Professor			
	Name of the institution where the teacher works full time and			eacher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:				01.08.1974			
Scier	ntific or art f	ield:			Biosystems Engineering			
Acad	lemic cariee	er	Year	Institution	Field			
Acad	lemic title el	ection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Biosystems Engineering	
PhD	thesis		2003	Faculty of Technical Sci	ences - Novi S	ad	Biosystems Engineering	
Magi	ster thesis		1989	Faculty of Technical Sci	ences - Novi S	ad	Biosystems Engineering	
Bach	elor's thesis	S	1973	Faculty of Mechanical E	ngineering - No	ovi Sad	Internal Combustion Engines	
List o	of courses b	eing hel	d by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	gramme name, study type	
1.	M2407	Biosys	tem Machi	nes 2			chanization and Construction Engineering, uate Academic Studies	
						· /	chatronics, Undergraduate Academic Studies chanization and Construction Engineering,	
2.	M304	Biosys	tem Machi	nes 1			uate Academic Studies	
							nnical Mechanics and Technical Design, uate Academic Studies	
3.	URZP54	Device	s in the Pr	ocess Industry			aster Risk Management and Fire Safety, uate Academic Studies	
4.	Z475A	Enviro	nmental en	gineering in biosystems		(Z20) Environmental Engineering, Undergraduate Academic Studies		
						(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
5.	Z476	Energy	/ and renev	vable energy sources in ru	iral areas	(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic	
6.	ZRI421	Occup	ational Saf	ety in Agriculture and Fore	estry	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	Z475		erstvo zašti na englesko	te životne sredine u biosis om)	tema(uneti	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
8.	Z476			ivi izvori energije u ruralnir aziv na engleskom)	n	(Z20) Environmental Engineering, Undergraduate Academic Studies		
9.	H2405	IT in B	iosystems			(H00) Mechatronics, Master Academic Studies (M22) Mechanization and Construction Engineering, Master Academic Studies		
10.	M2651	Tracto	rs			(M22) Mechanization and Construction Engineering, Maste Academic Studies		
11.	M2652	Agricu	ltural mach	inery for renewable energy	y sources	( M22) Meo Academic	chanization and Construction Engineering, Master Studies	
12.	Z477	Sustai	nable Agric	ulture Engineering		(Z20) Envi	ronmental Engineering, Master Academic Studies	
13.	Z478A			ology support sustainable	,	(Z20) Envi	ronmental Engineering, Master Academic Studies	
14.	Z477	Inženje engles		ive poljoprivrede(uneti naz	riv na	(Z20) Envi	ronmental Engineering, Master Academic Studies	
15.	Z478	Inform	aciono-tehi	nološka podrška održivom naziv na engleskom)	razvoju	(Z20) Envi	ronmental Engineering, Master Academic Studies	
16.	SZSP14			proach to the biosystems	engineering	( Z00) Env Studies	ironmental Engineering, Specialised Academic	
17.	SZSP16	Engine	ering of re	newable enery sources in	agriculture	( Z00) Env Studies	ironmental Engineering, Specialised Academic	
18.	DOM24	Procedure and Machines for Sustainable Agriculture			griculture	( M00) Me	chanical Engineering, Doctoral Academic Studies	
19.	ZSP14	Conter Biosys		proaches to Sustainable E	Engineering	( Z00) Env Studies	ironmental Engineering, Doctoral Academic	
20.	ZSP16	Engineering of Renewable Energy in Agricult			Ilture	Studies	thematics in Engineering, Doctoral Academic ironmental Engineering, Doctoral Academic	
Ren	Representative refferences (minimum 5, not more than 10)							



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

## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Rep	presentative refferences (minimum 5, not more than 10)						
1.	Veselinov, B.: Prilog razvoju sistema za presovanje vlaknastih biomaterijala kod presa za valjkaste bale sa promenljivom zapreminom komore za presovanje, Fakultet tehničkih nauka, Novi sad, Magistarski rad, 1989, 98 strana						
2.	Veselinov, B.: Uticaj raznih postupaka mehaničkog usitnjavanja suve pitome nane na kvalitet dobijene biljne sirovine, Fakultet tehničkih nauka, Novi Sad, Doktorska disertacija, 2003, 110 strana						
3.	Martinov, M., Veselinov, B., Bojić, S. 2007. Maize Cobs Processor – Preparations for its use as a Fuel. 11-th International Research/Expert Conference »Trends in the Development of Machinery and Associated Technology« TMT 2007, Hammamet, Tunisia, 05-09 Septembar, 1167-1170						
4.	Martinov, M., Adamović, D., Veselinov, B., Mujić, I., Bojić, S. 2008. Fazno sušenje lekovitog bilja u šaržnoj sušari. Savremena poljoprivredna tehnika, 34(1-2), 1-12. (ISSN 0350-2953)						
5.	Martinov, M., Veselinov, B., Bojić, S. 2008. Drobljenje oklasaka kukuruza – priprema za korišćenje kao gorivo. Savremena poljoprivredna tehnika, 34(1-2), 26-31						
6.	Veselinov, B., Adamović, D., Martinov, M. 2008. Istraživanje mogućnosti mehanizovanog branja cvasti nevena, Bilten za hmelj, sirak i lekovito bilje, Institut za ratarstvo i povrtarstvo Novi Sad, 40(81), 22-33						
7.	Martinov, M, Veselinov, B. 2009. Stanje u oblasti poljoprivrednog inženjerstva – Akcenti Konferencije VDI-MEG LAND-TECHNIK 2008. Savremena poljoprivredna tehnika, 35(3), 157-168. (ISSN 0350-2953)						
8.	Martinov, M., Adamović, D., Veselinov, B., Matavuly, M., Bojic, S. and I. Mujic. 2008.Practice oriented investigation of chamomile and peppermint drying in batch dryer. 36. International Symposium Agricultural Engineering: Actual Tasks on Agricultural Engineering, Opatija, 11-15 February 2008, Book of Proc, 479-490. ISSN1533-2651						
9.	Martinov M, Bojic S, Golub M, Veselinov B. 2012. Practice oriented investigation of hull-less oil pumpkin seeds, Cucurbita pepo L., drying in batch dryers. 7th Conference of Medicinal and Aromatic Plants of Southeastern European Countries. Subotica 27th-31st of Mai 2012, CD of Proc. 241-247. ISBN: 978-86-83-141-16-6						
10.	Martinov M, Golub M, Djordje Dj, Bojic S, Veselinov B. 2012. Total and available yield of soybean residues. 4th International Scientific and Expert Conference TEAM 2012 Technique, Education, Agriculture & Management. Slavonski Brod, 17th to 19th October 2012, CD of proc. 307-310. ISSN 1847-9065						
Sur	mmary data for teacher's scientific or art and professional activity:						
Quot	tation total : 0						
	l of SCI(SSCI) list papers : 1						
Curre	ent projects : Domestic : 5 International : 0						



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Name	e and last n	ame:			Vladić M. Jov	Vladić M. Jovan			
Acad	emic title:				Full Professo	r			
Name	e of the inst	titution w	vhere the te	eacher works full time and	Faculty of Tee	chnical Scie	nces - Novi Sad		
starti	ng date:				12.11.1975				
Scier	Scientific or art field:					Machine Constructions, Transport Systems and Logistics			
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	lection:	1999	Faculty of Technical Science	ences - Novi Sa	ad	Machine Constructions, Transport Systems and Logistics		
PhD	thesis		1989	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanical Engineering		
Magi	ster thesis		1982	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanical Engineering		
Bach	elor's thesis	S	1974	Faculty of Technical Sci	ences - Novi Sa	ad	Mechanical Engineering		
List o	of courses b	eing hel	ld by the te	acher in the accredited stu	idy programme	S			
	ID	Course name				Study pro	gramme name, study type		
1.	M207A	Compu	uter-Aided I	Design		Undergrad	chanization and Construction Engineering, uate Academic Studies		
							chnical Mechanics and Technical Design, uate Academic Studies		
2.	M2402	Contin	uous and A	Automated Transport			chanization and Construction Engineering, uate Academic Studies		
3.	M2610	Graphi	ic Commun	ications and CAD		(H00) Med	chatronics, Undergraduate Academic Studies		
4.	M312A	Funda	mentals of	Transportation Machines		<ul> <li>( M20) Mechanization and Construction Engineering, Undergraduate Academic Studies</li> <li>( M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies</li> </ul>			
5.	M313A	CAD/CAE Course				( M20) Me	chanization and Construction Engineering, uate Academic Studies		
6.	S0218	Reload Logistics					fic and Transport Engineering, Undergraduate		
7.	S1218	Reload	d Logistics			(S01) Postal Traffic and Telecommunications, Undergraduate Academic Studies			
8.	ZR407A	Occup wareho		ety in internal transport, rel	oading and	(Z01) Safe	ety at Work, Undergraduate Academic Studies		
9.	H2504	Transp	oortation an	d Manipulation Systems		(H00) Mechatronics, Master Academic Studies			
10.	M2503	Transp	oort System	as and Devices		(M22) Mechanization and Construction Engineering, Mast Academic Studies			
11.	M2509A	Autom	ated Machi	ne Designing			Mechanization and Construction Engineering, Masternic Studies		
12.	M2532	Packa	ging Machi	nes			Mechanization and Construction Engineering, Masternic Studies		
13.	LIM12	Transp	oort Technie	que and Material Flow		( LIM) Logi Academic	istic Engineering and Management, Master Studies		
14.	LIM13	Packa	ging Techn	iques and Packaging		( LIM) Logi Academic	istic Engineering and Management, Master Studies		
15.	LIM24	Urban	Logistics			( LIM) Logi Academic	istic Engineering and Management, Master Studies		
16.	H797			nechanization - advanced		(H00) Med	chatronics, Master Academic Studies		
17.	DM213	Conter Constr		ethods of Designing and M	lachine	( M00) Me	chanical Engineering, Doctoral Academic Studies		
18.	DM331		ed Chapter	s in Transport and Constru	uction	( M00) Me	chanical Engineering, Doctoral Academic Studies		
19.	DM410		ed Chapter	s in Food Processing Mac	hines and	( M00) Me	chanical Engineering, Doctoral Academic Studies		
20.	DOM20					( M00) Me	chanical Engineering, Doctoral Academic Studies		
21.	DOM23	Produc	ct Developr	ment		( M00) Me	chanical Engineering, Doctoral Academic Studies		
22.	DOM25	Contemporary Procedures for Mobile Machine Designing (M00) Mechanical Engineering, Doctoral Academic Studies							
Rep	Representative refferences (minimum 5, not more than 10)								
1.	Vladić J.,	Đokić F	., Kljajin M	. ,			or dynamic behaviour, Tehnički vjesnik/Technical i2=111		



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

## Study Programme Accreditation



Mechatronics

MASTER ACADEMIC STUDIES Representative refferences (minimum 5, not more than 10) Vladić J., Malešev P., Šostakov R., Brkljač N.: Dynamic Analysis of the Load Lifting Mechanisms, Strojniski vestnik = Journal of 2 Mechanical Engineering, 2008, No 10, pp. 655-661, ISSN 0039-2480 Vladić J., Đokić R., Živanić D.: Simulations and dynamic models of electrical elevators, 7. Simpozijum o konstruisanju, oblikovanju 3 i dizajnu - KOD, Balatonfured: Faculty of Technical Sciences, 24-26 Maj, 2012, pp. 121-126, ISBN 978-86-7892-399-9 Đokić R., Vladić J., Živanić D.: Design and bases for assembling prefabricated industrial objects, 6. Simpozijum o konstruisanju, 4 oblikovanju i dizajnu - KOD, Palić: Fakultet tehničkih nauka, 29-30 Septembar, 2010, pp. 189-192, ISBN 978-86-7892-278-7 Vladić J., Đokić R.: Modeling and dynamic analysis as basis for elevators design, 6. Simpozijum o konstruisanju, oblikovanju i 5 dizajnu – KOD, Palić: Fakultet tehničkih nauka, 29-30 Septembar, 2010, pp. 193-198, ISBN 978-86-7892-278-7 Vladić J., Živanić D., Đokić R., Gajić A.: Analysis and Choice of Prefabricated Industrial Halls Elements , 19. International conference on MATERIAL HANDLING, CONSTRUCTIONS AND LOGISTICS, Beograd: Mašinski fakultet Beograd, 15-16 6. Oktobar, 2009, pp. 257-260, ISBN 978-86-7083-672-3 Vladić J., Gajić A., Đokić R., Živanić D.: Choice of Optimal Transportation Mechanisation at Open Pit, 6. International 7 Conference "Heavy Machinery" - HM, Kraljevo: Faculty of mechanical engineering Kraljevo, 24-29 Jun, 2008, pp. 63-68, ISBN 978-86-82631-45-3 Vladić J., Živanić D., Đokić R., Gajić A.: Analysis of Material Flows and Logistics Approach in Design of Material Handling Systems, 6. International Conference "Heavy Machinery" - HM, Kraljevo: Faculty of mechanical engineering Kraljevo, 24-29 Jun, 8 2008, pp. 69-72, ISBN 978-86-82631-45-3 Vladić J., Đokić R.: Dynamic behaviour of elevators and tribological processes in their driving systems, 2. Power Transmissions, 9 Novi Sad: FTN Novi Sad, 25-26 April, 2006, pp. 537-542 Vladić, J.: Računske i eksperimentalne metode za statičku i dinamičku analizu žičara, monografija, 1991., FTN Novi Sad 10 Summary data for teacher's scientific or art and professional activity: Quotation total 0 Total of SCI(SSCI) list papers : 2 0 International : 0 Current projects Domestic :



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

## **G**

Mechatronics

Name and last name:					Vukelić B. Đorđe			
	emic title:				Assistant Pro			
-		itution v	here the te	acher works full time and	Faculty of Tee	chnical Scie	nces - Novi Sad	
	ng date:				23.10.2000			
	ntific or art f				Metrology, Qu	uality, Fixtur	es and Ecological-Engineering Aspects	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2010	Faculty of Technical Scie	ences - Novi Sa	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
PhD	thesis		2010	Faculty of Technical Scie	ences - Novi Sa	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Magi	ster thesis		2005	Faculty of Technical Scie	ences - Novi Sa	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Bach	elor's thesis	6	2000	Faculty of Technical Scie	ences - Novi Sa	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
List c	f courses b	eing hel	d by the tea	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
1.	P1401	Fixture	Design an	d Measuring Machines		( P00) Proo Studies	duction Engineering, Undergraduate Academic	
							duction Engineering, Undergraduate Academic	
2.	P1508	Revers	se Engineer	ring and CAQ			tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
							chnical Mechanics and Technical Design, uate Academic Studies	
3.	P209	Measu	rements ar	id Quality		(P00)Proo Studies	duction Engineering, Undergraduate Academic	
4.	P306	Fixtures				( P00) Proo Studies	duction Engineering, Undergraduate Academic	
5.	Z207	Mecha	nical Engin	eering in Environmental E	ingineering	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
6.	Z207A	Mecha	nical Engin	eering in Environmental E	ingineering	( Z01) Safety at Work, Undergraduate Academic Studies		
7.	Z301	Pollutio	on Measure	ment and Control		(Z01) Safety at Work, Undergraduate Academic Studies (Z20) Environmental Engineering, Undergraduate Academic		
8.	ZRI441			systems for environmenta	I and labor	Studies           (Z01) Safety at Work, Undergraduate Academic Studies		
9.	II1037	Disass		recycling technologies		(I10) Industrial Engineering, Undergraduate Academic Studies		
10.	P322	Introdu	iction to Pre	ecision Engineering		( P00) Proo Studies	duction Engineering, Undergraduate Academic	
11.	ZC036	Measu	rement and	l control of pollution		( ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
12.	P1409	Materia	al Control S	systems and CAI		(PM0)Pro	duction Engineering, Master Academic Studies	
13.	P1501	Ecolog	ical Techno	ologies and Systems		( M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies	
└──┤					, ,	duction Engineering, Master Academic Studies		
14.	Z416A	Environment Protection System Management			nt	, ,	duction Engineering, Master Academic Studies	
15.	1907	Autom	ated Assen	nbly Systems for High Acc	uracy		chatronics, Master Academic Studies oduction Engineering, Master Academic Studies	
16.	P321	Reverse Engineering and Rapid Prototyping			9	( 110) Indus	strial Engineering, Master Academic Studies	
17.	PIP16					(PM0) Production Engineering, Master Academic Studies		
18.	PLIS1	Logistics and Simulation in Technologies of Plastics Processing			Plastics	(PM0) Production Engineering, Master Academic Studies		
19.	PP103				ering	(PM0)Pro	duction Engineering, Master Academic Studies	
20.	SM3	Softwa	ire support	for reverse engineering ar	nd CAQ	(PM0)Pro	duction Engineering, Master Academic Studies	



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## Study Programme Accreditation

MASTER ACADEMIC STUDIES

#### Mechatronics

List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	me name, study type			
21.	SMI003	Software support for cutting tools an	d fixtures modeling	(PM0) Productio	on Engineering, Master Acad	lemic Studies		
22.	SZDH1	Modern Methods of Eco-design		(Z00) Environmo Studies	ental Engineering, Specialise	ed Academic		
23.	DM411	Contemporary Approach to Integrati Engineering of Rapid Prototyping, To Virtual Manufacturing		( M00) Mechanic	cal Engineering, Doctoral Aca	ademic Studies		
24.	DP001	Design and Research Methods in Pr Engineering	oduction	(M00) Mechanic	al Engineering, Doctoral Aca	ademic Studies		
25.	DP006	State and development trends of me fixtures	trology, quality and	(M00) Mechanic	cal Engineering, Doctoral Aca	ademic Studies		
26.	DP013	Ecological Engineering Aspects		(M00) Mechanic	al Engineering, Doctoral Aca	ademic Studies		
27.	DP019	Selected topics in technical diagnosi	S	(M00) Mechanic	al Engineering, Doctoral Aca	ademic Studies		
28.	ZDH1	Modern Methods of Eco-design		(Z00) Environmo Studies	ental Engineering, Doctoral /	Academic		
Rep	oresentative	refferences (minimum 5, not more th	an 10)					
1.	Budak I. Vukelić D. Bračun D. Hodolič I. Soković M.: Pre. Processing of Point-Data from Contact and Ontical 3D Digitization							
2.	Tadić B., Jeremić B., Todorović P., Vukelić Đ., Proso U., Mandić V., Budak I.: Efficient workpiece clamping by indenting cone-							
3.	Tadić B., Todorović P., Vukelić Đ., Jeremić B.: Failure analysis and effects of redesign of a polypropylene yarn twisting machine, Engineering Failure Analysis, 2011, Vol. 18, No 5, pp. 1308-1321, ISSN 1350-6307.							
4.	Matin I., I Products	Hadžistević M., Hodolič J., Vukelić Đ., , International Journal of Advanced M	Lukić D.: A CAD/CAE anufacturing Technolo	E Integrated Inject gy, 2012, Vol. 63,	tion Mold Design System for , No. 5-8, pp. 595-607, ISSN	Plastic 0268-3768.		
5.	burnishin	Todorović P., Lužanin O., Miljanić D., g tool to achieve high-quality surface uring Technology, 2012, ISSN 0268-3	finish, DOI: 10.1007/s					
6.		., Stamenković M., Maleš M., Vukelić vironment, Carpathian Journal of Eart						
7.		., Zuperl U., Hodolič J.: Complex sys d Manufacturing Technology, 2009, V				rnal of		
8.	Vukelić E in RFID e	., Ostojić G., Stankovski S., Lazarević nvironment, Assembly Automation, 2	ć M., Tadić B., Hodolič 011, Vol. 31, No 1, pp.	J., Simeunović N 62-68, ISSN 014	I.: Machining fixture assemb 4-5154.	ly/disassembly		
9.		B., Budak I., Todorović A., Hodolič J., cy Measurement of Ceramic Crowns,						
10.	Tadić B. Vukelić D. Hodolič I. Mitrović S. Erić M. Conservative-Force-Controlled Feed Drive System for Down Milling							
Sur	nmary data	for teacher's scientific or art and profe	essional activity:					
Quot	Quotation total : 34							
	Total of SCI(SSCI) list papers : 21							
Curre	ent projects	:	Domestic :	3	International :	3		







MASTER ACADEMIC STUDIES

Name and last name: Vukmirović M. Srđan								
	e and last n	ame.			Assistant Pro	rović M. Srđan		
		itution	whore the t-	achor works full time and		Faculty of Technical Sciences - Novi Sad		
	e of the inst ng date:	NULION	vitere the te	eacher works full time and	20.11.2000			
	ntific or art f	ield:				atic Control and System Engineering		
Acad	emic cariee	er	Year	Institution	-		Field	
Acad	emic title el	ection:	2012	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System Engineering	
PhD	thesis		2011	Faculty of Technical Sci			Automatic Control and System Engineering	
Magi	ster thesis		2004	Faculty of Technical Sci			Automatic Control and System Engineering	
Bach	elor's thesis	5	2000	Faculty of Technical Sci	ences - Novi Sa	ad	Automatic Control and System 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	gramme name, study type	
1.	E126	Syster	n Control, N	Nodeling and Simulation		· /	er, Electronic and Telecommunication g, Undergraduate Academic Studies	
2.	E232	System Modeling and Simulation				<ul> <li>(E20) Computing and Control Engineering, Undergraduate Academic Studies</li> <li>(ES0) Power Software Engineering, Undergraduate Academic Studies</li> <li>(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies</li> <li>(MR0) Measurement and Control Engineering, Undergraduate Academic Studies</li> <li>(SE0) Software Engineering and Information Technologies,</li> </ul>		
						( SEL) Soff Loznica, U	uate Academic Studies tware Engineering and Information Technologies - ndergraduate Academic Studies	
3.	GI303A	Distrib	uted Syster	ms in Geomatics		( GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
4.	H213	Syster	n Modelling	and Simulation 1		(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
						(H00) Mechatronics, Undergraduate Academic Studies		
5.	E2312	Softwa	are design f	or SCADA systems		<ul> <li>(E20) Computing and Control Engineering, Undergraduate Academic Studies</li> <li>(SEL) Software Engineering and Information Technologies</li> </ul>		
6.	ESI004	Cloud	Computing	in power systems		Loznica, Undergraduate Academic Studies (ES0) Power Software Engineering, Undergraduate		
7.	ESI008	Develo	opment of C	Cloud application in power	systems		Studies ver Software Engineering, Undergraduate Studies	
8.	SEAU02	SCAD	A Software			(SE0) Soft	tware Engineering and Information Technologies, uate Academic Studies	
9.	AU502	Distrib	uted Contro	ol Systems		(E20) Con Academic (MR0) Me Academic (E10) Pow	nputing and Control Engineering, Master Studies asurement and Control Engineering, Master Studies er, Electronic and Telecommunication	
10		Oustan Madalian and Oussalation				Engineering, Master Academic Studies		
10. 11.	H301 E2533			Modeling and Symulation			chatronics, Master Academic Studies nputing and Control Engineering, Master Studios	
12.	E2535	Software Algorithms in Supervision/ Control			and Data	Academic Studies ( E20) Computing and Control Engineering, Master Academic Studies (E10) Power, Electronic and Telecommunication		
						Engineerin	g, Master Academic Studies ver Software Engineering, Master Academic	
13.	ESI027	Advan	ced cloud c	computing in power system	ns	Studies		



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	ne name, study type			
14.	ESI032	Smart grid applications in Cloud		( ES0) Power So Studies	ftware Engineering, Master	Academic		
15.	ESI038	Service oriented architectures in Sm	art Grid	( ES0) Power So Studies	ftware Engineering, Master	Academic		
16.	DAU006	Selected Chapters in Modeling and Solution Systems	Simulation of	(E20) Computin Academic Studie	g and Control Engineering, I es	Doctoral		
17.	DAU018	Selected Chapters in Distributed Co	ntrol Systems	(E20) Computin Academic Studie	g and Control Engineering, I es	Doctoral		
18.	ZRD25A	Selected chapters from Artificial Inge	eligence	(Z01) Safety at	Work, Doctoral Academic St	udies		
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.	Kljajic, Miroslav; Gvozdenac, Dusan; Vukmirovic, Srdjan Use of Neural Networks for modeling and predicting boiler's operating performance ENERGY 2012 45 (1):304-311							
2.	Vukmirović S., Erdeljan A., Čapko D., Lendak I., Nedić N.: Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, 2011, Vol. 4, No 4, pp. 672-679, ISSN 1875-6883							
3.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, N. Nedic, Optimization of workflow scheduling in Utility Management System with hierarchical neural network, International Journal of Computational Intelligence Systems, ISBN 1875-6891, pp. 672 - 679							
4.	S.Vukmirovic, A. Erdeljan, D. Capko, I. Lendak, Extension of the Common Information Model with Virtual Meter, Electronics and electrical engineering ISSN: 1392-1215, pp. 59 - 64							
5.		o, A. Erdeljan, S.Vukmirovic, I. Lendak UTION MANAGEMENT SYSTEMS, Ir				A MODEL IN		
6.		ovic, A. Erdeljan, D. Capko, I. Lendak ng, Information technology and contro			ch for Utility Management S	ystem Workflow		
7.		ıkmirović S., Erdeljan A., Kulić F.: Hy 2012, Vol. 16, No S, pp. 215-224, ISS		etwork System for	Short-Term Load Forecasti	ng, Thermal		
8.		rić S., Erdeljan A., Lendak I., Čapko D strial Research (JSIR), 2010, Vol. 201				al of Scientific		
9.	forecastir	rić S., Vujić G., Vujic B., Jovičić N., Jo ng of traffic air pollution in urban areas I. 14, pp. 79-87, ISSN 0354-9836						
10.	Vukmirović G., Vukmirović S., Vujić G., Stanisavljević N., Ubavin D., Batinić B.: Using ANN model to determine future waste characteristics in order to achieve specific waste management targets -case study of Serbia, Journal of Scientific and Industrial Research (JSIR), 2011, Vol. 70, No 07, pp. 513-518, ISSN 0022-4456							
Sur	nmary data	for teacher's scientific or art and profe	essional activity:					
	ation total :		0					
	Total of SCI(SSCI) list papers : 12							
Curre	Current projects : Domestic : 2 International : 0							



## Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Name	ame and last name: Zuber F. Ninoslav							
	emic title:				Assistant Professor			
Name	e of the inst	itution v	vhere the te	eacher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad	
	ng date:				16.03.1998			
Scier	tific or art f	ield:			Machine Constructions, Transport Systems and Logistics			
Acad	Academic carieer Year Institution						Field	
Acad	emic title el	ection:	2011	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
Magi	ster thesis		2000	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
Bach	elor's thesis	6	1997	Faculty of Technical Sci	ences - Novi S	ad	Machine Constructions, Transport Systems and Logistics	
List o	List of courses being held by the teacher in the accredited study programmes							
	ID	Course	e name			Study pro	ogramme name, study type	
1.	M2507	Metho	ds of exper	imental testing of machine	es		chanization and Construction Engineering, uate Academic Studies	
2.	M305A	Motol	Structures				chanization and Construction Engineering, luate Academic Studies	
2.	WJUJA	Metal .	Siluciules				chnical Mechanics and Technical Design, luate Academic Studies	
3.	H2501	Motor	Vehicle Eq	uipment		(H00) Mea	chatronics, Master Academic Studies	
4.	M2508	Metal Constructions in Machine Building				(M22) Me Academic	chanization and Construction Engineering, Master Studies	
5.	M2531	Weighing and Dosing				( M22) Me Academic	chanization and Construction Engineering, Master Studies	
						( H00) Mea	chatronics, Master Academic Studies	
6.	M2540	Vibrod	Vibrodiagnostics			(M22) Me Academic	chanization and Construction Engineering, Master Studies	
						(M40) Technical Mechanics and Technical Design, Master Academic Studies		
7.	LIM13	Packa	ging Techn	iques and Packaging		( LIM) Logistic Engineering and Management, Master Academic Studies		
8.	H797	Mecha	tronics in n	nechanization - advanced	topics	(H00) Mechatronics, Master Academic Studies		
0	DM412	Experi	mental test	ing and analysis in mecha	nization -	( M00) Mechanical Engineering, Doctoral Academic Studies		
9.	DM412	advan	ced topics			(Z01) Safety at Work, Doctoral Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)				
1.				Experimental vibration i 1, Vol. 5, No 4, pp. 688-6			al beater wheel mill, TTEM. Tehnics tehnologies	
2.							ficial intelligence methods in fault identification of Vol. 6, No 1, pp. 3-10, ISSN 1840-1503	
3.				:An innovative approach nagement, 2010, Vol. 5, N			g of excavators in open pits mines, Technics 1503	
4.							OSSIBLE RESONANT PROBLEMS DURING ement, 2010, Vol. 5, No 1, pp. 32-37, ISSN 1840-	
5.				ostakov: Implementation c a, pp. 141-148, ISSN 198		ninery remot	te monitoring, Second Conference "Maintenance	
6.	Ninoslav Zuber: Application of artificial inteligence methods in automated vibrodiagnostics of rotating machines in mining industry – a case study, 4th International Conference "Noise and Vibration"2012, Niš, Serbia, pp 193-202, ISBN: 978-86-6093-042-4							
7.	Ninoslav Zuber: Roller elements bearing vibrodiagnostics, 4th International Conference "Noise and Vibration"2012, Niš, Serbia, pp 185-192, ISBN: 978-86-6093-042-4							
8.				Milićević A.: Applied Rem Vol. 7, No 25, pp. 31-40,			f the bucket wheel excavator, Journal of Applied	

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AL DO REAL		FACULTY OF TECHNICAL SCI	EJA OBRADOVIĆA 6						
720005		Study F	Color Color						
.0	LANTER	MASTER ACADEMIC STUDIES	ACADEMIC STUDIES			HO			
Representative refferences (minimum 5, not more than 10)									
9.		Ninoslav, Ličen Hotimir, mlađi: Mogućnosti primene metoda veštačke inteligencije u automatizaciji vibrodijagnostičkih la, Tehnička dijagnostika, vol. 10, br. 2, pp. 9-16, 2011, UDC: 62-51:612.321.12, ISSN 1451-1975							
10.		Ninoslav Zuber, Hotimir Licen, Patrice Dannepond: PREDIKTIVNO ODRŽAVANJE OPREME NA BAZI MERENJA I ANALIZE VIBRACIJA: TIPOVI, STRATEGIJE UVOĐENJA I PRIMENE, PRIMER, Power Plants 2006, Vrnjacka Banja, Srbija: 2006,							
Summary data for teacher's scientific or art and professional activity:									
Quotation total :			0						
Tota	I of SCI(SSCI)	) list papers :	4						
Current projects :			Domestic :	1	International :	0			







Mechatronics

#### Science, arts and professional qualifications

MASTER ACADEMIC STUDIES

Name and last name: Živanov B. Miloš									
					Full Professo				
						Fechnical Sciences - Novi Sad			
					01.04.1994				
	Scientific or art field:					Electronics			
Academic carieer Year Institution					Fi		Field		
Acad	Academic title election: 2004 Faculty of Technical Scie			ences - Novi Sad		Electronics			
PhD thesis 1992 School of Electrical Engi			neering - Beograd		Electronics				
Magister thesis 1978 School of Electrical Engi			neering - Beograd		Electronics				
Bachelor's thesis 1973 School of Electrical Engin			neering - Beograd Physics		Physics				
List of courses being held by the teacher in the accredited study programmes									
	ID	Course	e name		Study programme name, study type				
1.	EM414	Optoelectronics				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
2.	EM301A	Analog Microelectronic Circuits				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
3.	EM430A	Control and process electronics				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
4.	EM444B	Applied electronics				(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies			
5.	DE201S	Selected Chapters in Optoelectronics and Pho			Photonics	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
6.	DE503S	Industrial Electronics				(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
7.	E1SO01	Modern technologies in electrical engineering			ng	(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies			
8.	H1402	Digital Controlling Electronics				(H00) Mechatronics, Master Academic Studies			
9.	SI013	Applied electronics in industry				(E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies			
10.	SI035	Electronic Systems in Oil Industry				( E00) Power, Electronic and Telecommunication Engineering, Specialised Professional Studies			
11.	BMIM1A	Applications of lasers in medicine				(BM0) Biomedical Engineering, Master Academic Studies			
12.	DE117S	Selected chapters from optoelectronics sense			sors systems	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
13.	DE315S	Optoelectronics sensors systems-advanced cc			l course	(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
14.	DE418S	Design of complex optoelectronics systems				(E11) Power, Electronic and Telecommunication Engineering, Specialised Academic Studies			
15.	EM435A	Electronic Systems in Oil Industry				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
16.	EM437A	The application of electronic systems in clea renewable energy			an and	(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
17.	EM439A	Electronics in veichles				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
18.	EM521	Applied entroplectropics (E10) Power			er, Electronic and Telecommunication g, Master Academic Studies				
19.	EM523	Applie	d electronic	s in industry		(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies			
20.	DE201	Select	ed Chapter	s in Optoelectronics and F	Photonics	(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies			
21.	DE503	Indust	rial Electror	nics		(E10) Power, Electronic and Telecommunication Engineering, Doctoral Academic Studies			
22.	DE117	Select	ed chapters	s from optoelectronics sen	sors systems	( M40) Technical Mechanics, Doctoral Academic Studies ( E10) Power, Electronic and Telecommunication			
Engineering, Doctoral Academic Studies									
Representative refferences (minimum 5, not more than 10)									



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## Study Programme Accreditation

F

MASTER ACADEMIC STUDIES

#### Mechatronics

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						
3.	Slankamenac M., Lukić-Petrović S., Živanov M., Čajko K.: Electrical switching behavior of bulk Cux(AsSe1.4I0.2)100-x glasses: Composition dependence and topological effects, SOLID STATE COMMUN, 2012, Vol. 152, No 13, pp. 1160-1163, ISSN 0038- 1098						
4.	Sekulić D., Satarić M., Živanov M.: Symbolic Computation of Some New Nonlinear Partial Differential Equations of Nanobiosciences Using Modified Extended Tanh-function Method, Applied Mathematics and Computation, 2011, Vol. 218, No 7, pp. 3499-3506, ISSN 0096-3003						
5.	Stupar D., Bajić J., Manojlović L., Slankamenac M., Joža A., Živanov M.: A Wearable Low-Cost System for Human Joint Movements Monitoring Based on Fiber-Optic Curvature Sensor, IEEE Sensors Journal, 2012, ISSN 10.1109/JSEN.2007.90						
6.	Manojlović L., Živanov M.: Spectrally Resolved White-Light Interferometric Sensor for Absolute Position Measurement Based on Hilbert Transform, IEEE Sensors Journal, 2012, Vol. 12, No 6, pp. 2199-2204, ISSN 10.1109/JSEN.2007.90						
7.	Bajić J., Stupar D., Manojlović L., Slankamenac M., Živanov M.: A simple, low-cost, high-sensitivity fiber-optic tilt sensor, Sensors and Actuators A: Physical, 2012, Vol. 185, pp. 33-38, ISSN 0924-4247						
8.	Manojlović L., Živanov M., Slankamenac M., Bajić J., Stupar D.: High-speed and high-sensitivity displacement measurement with phase-locked low-coherence interferometry, APPL OPTICS, 2012, Vol. 51, pp. 4333-4342, ISSN 0003-6935						
9.	M.B. Živanov, "Elektronika - elektronske komponete i kola - analiza i projektovanje", 2001. Univerzitet u Novom Sadu, Fakultet tehničkih nauka, No. 129, Novi Sad, str. 651. 2001.						
10.	G.Mančić, S.Martinović, M.Živanov, "Karotažna merenja - osnovni fizički principi", 2002.						
Summary data for teacher's scientific or art and professional activity:							
	tation total :	32					
	l of SCI(SSCI) list papers :	23	i	1			
Curre	ent projects :	Domestic :	2	International :	2		



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### Study Programme Accreditation

MASTER ACADEMIC STUDIES

Mechatronics

Standard 10. Organizational and Material Resources

To perform a study programme, the adequate human, spatial, technical and technological, library and other resources suitable to the study programme features and predicted students` number are to be provided. Lectures at this study programme is realized in two shifts, so the required enough space according to rules of accreditation.

There is also an adequate equipment of all courses with the appropriate textbook literature, devices and supplementary equipment available on time and in a sufficient number for normal performance of the teaching process. Likewise, the Faculty of Technical Sciences has its own library, with well equipped and for this study programme adequate library funds. The adequate information technology is also available for performing the study programme.



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### Study Programme Accreditation



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MASTER ACADEMIC STUDIES

Standard 11. Quality Control

The quality control of the study programme is performed regularly and systematically through selfevaluation and external quality control.

The quality control process comprises the continual monitoring of the quality of lecturing and the quality of resources necessary for the successful efficiency of undergraduate studies. Quality control bodies are the following: Board for Quality and Self-Evaluation, Committee for Quality and Committee for Undergraduate Studies Quality with undergraduate studies study programme executives-in-charge.

The study programme quality is evaluated on the basis of lecturers' competence, students' participation and involvement in scientific and research projects, resource wealth (contemporariness of equipment, contemporariness of available literature in libraries and bases), and the number of scientific publications realized during studies.

During the quality control of a study programme, the active role of students and their evaluation of the programme quality are also provided.

Quality monitoring is performed by a Committee consisting of Heads of Departments involved in study programme realization and one student from each academic year.

