

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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

STUDY PROGRAMME ACCREDITATION MATERIAL:

PRODUCTION ENGINEERING

MASTER ACADEMIC STUDIES

Novi Sad 2012. Prevod sa srpskog jezika:

- Jelisaveta Šafranj
- Ivana Mirović
- Marina Katić
- Vesna Bodganović
- Dragana Gak
- Ličen Branislava



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



Content

00. Introduction	 3
01. Programme Structure	 4
02. Programme Objectives	 5
03. Programme Goals	 6
04. Graduates` Competencies	 7
05. Curriculum	 8
Table 5.2 Course specification	 8
Contemporary Approach to Product Designing	 9
Material Control Systems and CAI	 10
Ecological Technologies and Systems	 11
Contemporary Tools in CIM Systems	 12
Highly Productive Processing	 13
Mold and die machining technology	 14
Fundamentals on Protection for Operation on Processing Machines	 15
Environment Protection System Management	 16
Process Design in Welding Technology	 17
Properties and Selection of Materials	 18
Process Design in Casting Technology	 19
Nanotechnologies	 20
Technology of sintering	 21
Rapid Prototyping and Rapid Tooling	 22
Tool Designing for Plastic	 23
Contemporary Process Systems for Plastic Treatment	 24
Automatization in plastic	 25
Plastics and environmental protection	 26
Inteligent Forming Processes	 27
Measurement and tools in precision engineering	 28
Joining technologies in precision engineering	 29
Semantic Web	 30
Domain-Specific Languages	 31
Methods and Software Tools for Collaborative Design	 32





Content

	Methods and software tools for computer aided design	 33
	Software support for reverse engineering and CAQ	 34
	Professional Practice	 35
	Study research work on theoretical basis of the master thesis	 36
	Master Thesis	 37
	Automated Assembly Systems for High Accuracy	 38
	Modelling and Simulation in Processing	 39
	Internet Technologies in Production Engineering	 40
	Intelligent Process Planning	 41
	Production Design	 42
	Technologies of shaping biomedical materials	 43
	Machines and dies for powder forming	 44
	Modelling and Simulation of Metal Forming Processes	 45
	Mechanical Engineering in Medicine and Bioengineering	 46
	Logistics and Simulation in Technologies of Plastics Processing	 47
	Precision of machine tools	 48
	The dynamics of micro machining systems	 49
	Design of prosthetic devices	 50
	lintegrated VR development environments for engineering applications	 51
	Modeling and simulation of thermo chemical and metallurgical processes	 52
	Software support for cutting tools and fixtures modeling	 53
	Quality, Contemporaneity and International	 54
Compliance 07. Student Enr	ollment	55
	aluation and Progress	 56
		 57
09. Teaching St		
	Antić T. Aco	 57
<u>9.1. Sci</u>	ence, arts and professional qualifications	 57
	Antić T. Aco	 58
	Baloš S. Sebastian	 60





Content

Budak M. Igor	 62
Dejanović R. Igor	 64
Gerić D. Katarina	 66
Gostimirović P. Marin	 68
Hadžistević J. Miodrag	 70
Herakovič S. Niko	 72
Hodolič J. Janko	 74
Jovanović M. Vukica	 76
Kakaš I. Damir	 78
Konjović D. Zora	 80
Kovač P. Pavel	 83
Lazarević M. Milovan	 85
Lužanin B. Ognjan	 87
Maksimović M. Rado	 89
Milanović N. Nikola	 91
Milošević P. Mijodrag	 93
Ostojić M. Gordana	 95
Plančak E. Miroslav	 98
Sekulić Lj. Milenko	 100
Sovilj N. Bogdan	 102
Šiđanin P. Leposava	 103
Škorić N. Branko	 104
Tabaković N. Slobodan	 106
Todić V. Velimir	 108
Vilotić Ž. Dragiša	 110
Vujić V. Goran	 112
Vukelić B. Đorđe	 114
Zeljković V. Milan	 116
10. Organizational and Material Resources	 118
11. Quality Control	 119



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



Production Engineering
University of Novi Sad
Faculty of Technical Sciences
Technical-Technological Science
Mechanical Engineering
Master Academic Studies
60-64
Master in Mechanical Engineering, M.Mech.Eng.
1
2008
35
64
14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Serbian, English
2008



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

Study Programme Accreditation

Production Engineering

Standard 00. Introduction

MASTER ACADEMIC STUDIES

The study programme for the Graduate Academic Studies – Master in Production Engineering is a continuation of undergraduate programme in Production Engineering at the Faculty of Technical Sciences, University of Novi Sad. It has been devised at Department of Production Engineering. Production Engineering is an engineering field which with imagination, reason, experience and intuition utilizes modern scientific knowledge for successful construction and machine and tools manufacturing, and wide range various products necessary for business functioning.

Production Engineering plays an important role in maintenance and successful functioning of many economic branches such as: traffic engineering (road, railway, water and airplane traffic), postal traffic, agriculture (production and processing), military (defence and associate industry), health care (clinic centres, hospitals), research and development centres, development and application of specific technologies (space and nuclear), and many others. It is estimated that up to 80% of jobs occupied by mechanical engineers are occupied by engineers in the field of production engineering.

Therefore Production Engineering in terms of education should be considered as a study programme created as a response to actual professional need. This programme should enable students to additionally expand their knowledge based on understanding fundamental physical principles in various engineering branches, master additional professional skills for contemporary technical systems realization, acquire skills for knowledge integration in each actual case and to be introduced to research work during the realization of this study programme.



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

Study Programme Accreditation

Production Engineering

Standard 01. Programme Structure

MASTER ACADEMIC STUDIES

The name of this study programme of graduate academic studies – master is Production Engineering. Academic name acquired is Master graduated engineering of production engineering. 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.

The prerequisites for enrolling the study programme are completed undergraduate studies with at least 240 ECTS and passed enrolment exam. The enrolment exam is taken in order to evaluate knowledge necessary for the study programme (maximum 60 points) and is considered to be passed if the students is awarded at least 14 points.

At the Graduate Academic Studies – Master, Production Engineering there are five study groups:

- Computer based technologies
- Contemporary technologies in material forming
- Contemporary technologies in plastic
- Precision engineering
- Software for mechanical engineering

Students choose one of five study groups in accordance with previous education. Lectures are organized if the approved enrolling quota is met. In case that there are not enough students, lectures are not organized or the Faculty Management reaches a special decision on lectures realization at the group (mentor work with students).

The study group includes production technologies with the special emphasis on their application in contemporary industry. Students are obliged to choose selective courses. Selective courses are chosen from the group of proposed subjects. However, students have opportunity to according to their interests and with the consent of the Head of the Study Programme to choose any of the subjects offered at the Faculty of Technical Sciences (FTN), University of Novi Sad or any other national or international university. In that case all prerequisites for attending lectures in the chosen subject must be fulfilled. 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 number of students in a group depends on the character of the practice classes. Students are obliged to write seminar papers and homework, projects, semestral and graphic papers. Every student activity is monitored and awarded according to the regulations adopted by the Faculty. The number of awarded credits is determined by a unique methodology and reflects student involvement.



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

Study Programme Accreditation

Production Engineering

Standard 02. Programme Objectives

MASTER ACADEMIC STUDIES

The study programme has a clearly defined aim and role in the educational system, available to public. The study program of the Master studies in Production Engineering is a multidisciplinary study programme merging economic, social, and environmental and governance aspects of the regional policies and development.

The aim of the study programme of graduate academic studies in Production Engineering is to prepare and enable students for a career as specialists in regional planning policies and development, thus responding to the national labour market needs in practical application of knowledge and skills necessary for designing and implementing regional development programmes.



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

Study Programme Accreditation

Production Engineering

Standard 03. Programme Goals

MASTER ACADEMIC STUDIES

The objective of the graduate academic studies in Production Engineering is acquiring competences and academic skills in the field of Production Engineering. 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 Production Engineering is to educate and form highly qualified experts able to perform tasks in production technologies and designing contemporary production process.



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

Study Programme Accreditation

Production Engineering

MASTER ACADEMIC STUDIES Standard 04. Graduates` Competencies

Having completed the graduate academic studies in Production Engineering, a student acquires general and subject-specific 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 Production Engineering 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.



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

Study Programme Accreditation

Production Engineering

Standard 05. Curriculum

MASTER ACADEMIC STUDIES

The curriculum of the study programme of Production Engineering 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.

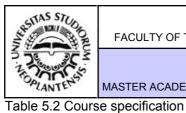
The curriculum is defined description of subjects which contains title, subject type, academic year and semester, ECTS, professors name, subject objective with expected outcomes, knowledge and competences, prerequisites for attending the subject, subject content, recommended literature, teaching methods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



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



Study Programme Accreditation

Course:				Orantaa					
Course	id:	P1405		Conten	nporar	y Approach to F	Product Desig	gning	
Number	of ECTS:	6							
Teache	rs:		Antić T. A	Aco, Tabaković N	. Sloboda	n, Zeljković V. Milan			
Course	status:		Elective						
Number	of active teac	hing classe	es (weekly	⁽)					
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:
	3	()	2		0		0	
Precond	lition courses			None		•			
1. Educ	ational goal:								
•	ng fundamenta napplication.	l knowledg	e in the fie	eld of product dev	/elopment	and design with modern	principles of integral	(complex) pro	ogramme
2. Educ	ational outcom	nes (acquir	ed knowle	dge):					
Introduc	tion to contem	porary app	proach to p	product developm	ent and d	esign, modern support fo	r development and de	esign.	
3. Cours	se content/stru	icture:							
fundam develop	ental principle ment. Integra	s, assignn I product o	nents and developme	determinates of ent. Product des	product o ign. Modu	product life cyle, produ development, product de llar product developmen tical support in CAD syst	velopment strategies t. Product design ac	s, structure o cordign to co	f product
Lecture present exercise	ed with chara es are coverer	acteristic e d. Acquire	xamples i d knowled	for better unders	standing applied in	atory and computer prac of subject content. In au I laboratory practical clas gularly.	ditory practical clas	sses, charac	cteristical
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Comput	er exercise att	endance		Yes	5.00	Written part of the exam	- tasks and theory	Yes	30.00
Graphic	paper			Yes	20.00	Oral part of the exam		Yes	40.00
Lecture	attendance			Yes	5.00				
					Liter	ature			
Ord.	A	uthor			Title)	Publishe	er	Year
1,	Zeljković, M., Gatalo, R.	, Borojev, L		avremene metode oizvoda- Udžbeni			Fakultet tehničkih n Sad	auka, Novi	2008
2,	Petrović, P.			azvoj proizvoda			FTN-Institut za indu sisteme	ıstrijske	1997
3,	Merlet, J., P.		Pa	arallel robots			Springer		2006
4,	Zeljković, M., Antić, A.	Tabakovid		avremeni prilazi u Itorizovani rukopi			Fakultet tehničkih n Sad	auka Novi	2012
5,	Devedžić, G.			AD/CAM tehnolog			Mašinski fakultet		2009
								•	



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

HORN BO

Study Programme Accreditation

Course									
	:				A = 4 =				
Course	id:	P1409		N	lateria	al Control Syster	ms and CAI		
Numbe	r of ECTS:	5							
Teache	rs:	Bu	dak M. Igo	or, Hadžistevi	ć J. Miodr	ag, Hodolič J. Janko, Vuk	elić B. Đorđe		
Course	status:	Ele	ctive						
Numbe	r of active tead	hing classes (veekly)						
L	.ectures:	Practical clas	sses:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	0		2		0		0	
Precon	dition courses	-		None		•			
1. Educ	ational goal:			-					
Enablin	g students to o	choose, design	and cualc	utate product	tion contro	lling systems.			
2. Educ	ational outcon	nes (acquired k	nowledge):					
Acquire	ed knowledge e	enaboles stude	nts for ind	ependent des	signing of	production controlling syst	ems.		
3. Cour	se content/stru	ucture:							
materia manipu convey	l handling. Cla lating means. ors. Roller co	assification and Basic concept nveyors. Vibra	l characte s and syst tory conv	eristics manip ematization o eyors. Mach	oulacionih of transpo inery for	 handling, transport and and vehicles. Calculation rt vehicles and systems. handling-crushers, saws 	n of the amount of m Belt conveyors. Joint , presses, classifiers	aterial transp t conveyors.	oorted by Catenary
	hing methods:					tomation processes the	system design.		
present exercis	ted with chara es are covere	l interactively t acteristic exan	ples for l lowledge	better unders is practically	ory, labora standing applied ir	atory and computer pract of subject content. In au I laboratory practical clas	ical classes. In lectu ditory practical clas	ses, charac	al part is
present exercis	ted with chara es are covere	l interactively t acteristic exan rd. Acquired kr	ples for l lowledge	better unders is practically isultations ar	ory, labora standing applied ir e held reg	atory and computer pract of subject content. In au I laboratory practical clas	ical classes. In lectu ditory practical clas	ses, charac	al part is
present exercis	ted with chara es are covere rom lectures a	l interactively t acteristic exan rd. Acquired kr	ples for l owledge asses, cor	better unders is practically isultations ar	ory, labora standing applied ir e held reg	atory and computer pract of subject content. In au I laboratory practical clas gularly.	ical classes. In lectu ditory practical clas ses using avalilable	ses, charac	al part is
present exercise Apart fr	ted with chara es are covere rom lectures a	l interactively t acteristic exan rd. Acquired kr nd practical cla	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e	ory, labora standing applied ir e held reg evaluation Points	atory and computer pract of subject content. In au laboratory practical clas gularly. (maximum 100 points)	ical classes. In lectu ditory practical clas ses using avalilable am	ses, charac laboratory ec	al part is teristical quipment.
present exercis Apart fr Exercis	ted with chara es are covere om lectures a Pre-examina	l interactively t acteristic exan rd. Acquired kr nd practical cla	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e Mandatory	ory, labora standing of applied ir e held reg evaluation Points 5.00 5.00	atory and computer pract of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final ex	ical classes. In lectu ditory practical clas ses using avalilable am	ses, charac laboratory ec Mandatory	al part is teristical quipment. Points
present exercis Apart fr Exercis Lecture Term pa	ted with chara es are covere rom lectures a Pre-examina e attendance attendance	l interactively t acteristic exan rd. Acquired kr nd practical cla	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e Mandatory Yes	ory, labora standing applied in e held reg evaluation Points 5.00 5.00 20.00	atory and computer pract of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam	ical classes. In lectu ditory practical clas ses using avalilable am	ses, charac laboratory ec Mandatory Yes	al part is steristical quipment. Points 30.00
present exercise Apart fr Exercise Lecture Term part Test	ted with chara es are covere rom lectures a Pre-examina e attendance attendance	l interactively t acteristic exan rd. Acquired kr nd practical cla	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes	ory, labora standing applied ir e held reg evaluation Points 5.00 5.00 20.00 10.00	atory and computer pract of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam	ical classes. In lectu ditory practical clas ses using avalilable am	ses, charac laboratory ec Mandatory Yes	al part is steristical quipment. Points 30.00
present exercis Apart fr Exercis Lecture Term pa	ted with chara es are covere rom lectures a Pre-examina e attendance attendance	l interactively t acteristic exan rd. Acquired kr nd practical cla	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes	ory, labora standing applied ir e held reg valuation Points 5.00 5.00 20.00 10.00	atory and computer pract of subject content. In au a laboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam	ical classes. In lectu ditory practical clas ses using avalilable am	ses, charac laboratory ec Mandatory Yes	al part is steristical quipment. Points 30.00
present exercis Apart fr Exercis Lecture Term pa Test Test	ted with chara es are covere rom lectures a Pre-examina e attendance attendance aper	l interactively t acteristic exan rd. Acquired kr nd practical cla ation obligation	ples for l owledge asses, cor	better unders is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes	ory, labora standing of applied in e held reg evaluation 5.00 5.00 20.00 10.00 10.00 Liter	atory and computer pract of subject content. In au laboratory practical clas gularly. (maximum 100 points) (maximum 100 points) Final ex Written part of the exam Oral part of the exam	ical classes. In lectu ditory practical clas ses using avalilable am tasks and theory	ses, charac laboratory ec Mandatory Yes Yes	Points 30.00
present exercis Apart fr Exercis Lecture Term pa Test Test Ord.	ted with chara es are covere rom lectures a Pre-examina e attendance attendance aper	l interactively t acteristic exan rd. Acquired kr nd practical cla ation obligation	nples for l nowledge isses, cor	better unders is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes Yes	ory, labora standing applied ir e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title	atory and computer pract of subject content. In au a laboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	ical classes. In lectu ditory practical clas ses using avalilable am tasks and theory Publishe Fakultet tehničkih na	ses, charac laboratory ec Mandatory Yes Yes	Points 30.00 20.00
present exercis Apart fr Exercis Lecture Term pa Test Test	ted with chara es are covere rom lectures a Pre-examina e attendance attendance aper Hodolič, J.; \ Keshava Cha	l interactively t acteristic exan rd. Acquired kr nd practical cla ation obligation	Sisten	better unders is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes	ory, labora standing applied ir e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title	atory and computer pract of subject content. In au alaboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	ical classes. In lectu ditory practical clas ses using avalilable am tasks and theory Publishe	ses, charac laboratory ec Mandatory Yes Yes	Points 30.00 20.00
present exercis Apart fr Exercis Lecture Term pa Test Test Ord. 1,	ted with chara es are covere rom lectures a Pre-examina e attendance attendance aper A Hodolič, J.; \	l interactively t acteristic exan rd. Acquired kr nd practical cla ation obligation	s Sisten	is practically is practically isultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Yes	ory, labora standing applied ir e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title je - skripta	atory and computer pract of subject content. In au alaboratory practical clas gularly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	ical classes. In lectu ditory practical clas ses using avalilable am tasks and theory Publishe Fakultet tehničkih na Sad	ses, charac laboratory ec Mandatory Yes Yes	Points 30.00 20.00 Year 2011



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



Study Programme Accreditation

Course	:								
Course	id:	P1501		Ec	ologica	al Technologies	and Systems	3	
Number	r of ECTS:	6							
Teache	ers:		Budak M. Dorđe	lgor, Hadžistevi	ć J. Miodra	ag, Hodolič J. Janko, Kov	ač P. Pavel, Sekulić I	Lj. Milenko, V	ukelić B.
Course	status:	E	Elective						
Number	r of active teac	hing classes	(weekly)						
L	ectures:	Practical c	lasses:	Other teachi	ng types:	Study rese	arch work:	Other cla	isses:
	3	0		3		0		0	
Precon	dition courses	•		None		•			
1. Educ	ational goal:								
Acquirir	ng fundamenta	l knowledge	in domain	n of environment	protection	n in the field of productior	n engineering.		
	0	5			•	·	5 5		
2. Educ	cational outcom	nes (acquired	d knowled	ge):					
Enablin enginee		or recognitio	n, preven	ntion and repai	ring probl	ems related to environ	ment protection in th	ne field of pr	oduction
3. Cour	se content/stru	icture:							
			tion of the	aubiast Sust	motic com	nflict between the enviro	nmont and sivilization	n nooda D	blomati-
waste, i						ng and environment – m dology of evaluation of a			vironment
Manage	ement System	: purpose, or	rigin, intro	duction, functio	n, evaluat	ion, Methodology of envi	ronmental evaluation	and product	
Manage Multicri	ement System: iterial evaluation	: purpose, or on of enviror	rigin, intro nment loa	duction, functio	n, evaluat echnologi	ion, Methodology of envi es and future systems. I	ronmental evaluation Ecological technolog	and product	g, obrada
Manage Multicri zrakom	ement System: iterial evaluation	: purpose, or on of enviror electricity. Re	rigin, intro nment loa enewable	duction, functio ad, Ecological te energy: solar er	n, evaluat echnologi	ion, Methodology of envi	ronmental evaluation Ecological technolog	and product	g, obrada
Manage Multicri zrakom geother	ement System iterial evaluation sunca, solar e	: purpose, or on of enviror electricity. Re ydropower. e	rigin, intro nment loa enewable	duction, functio ad, Ecological te energy: solar er	n, evaluat echnologi	ion, Methodology of envi es and future systems. I	ronmental evaluation Ecological technolog	and product	g, obrada
Manage Multicri zrakom geother 4. Teac	ement System iterial evaluation sunca, solar e rmal energy, hy ching methods:	: purpose, or on of enviror electricity. Re ydropower. e	rigin, intro nment loa enewable energy sto	duction, functio ad, Ecological te energy: solar er prage	n, evaluat echnologi nergy, win	ion, Methodology of envi es and future systems. I d energy, biomass energ	ronmental evaluation Ecological technolog ly, hydrogen energy,	and product ies: reciclyng energy y env	g, obrada ironment
Manage Multicri zrakom geother 4. Teac Lecture present	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa	rigin, intro nment loa enewable energy sto y through amples fo	duction, functio ad, Ecological te energy: solar er orage lectures, audito or better unders	n, evaluat echnologi hergy, win bry, labora	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas	and product ies: reciclyng energy y env ures theoretic ses, charac	g, obrada ironment al part is teristical
Manage Multicri zrakom geother 4. Teac Lecture present exercise	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic exa rd. Acquired	rigin, intro nment loa enewable energy sto y through amples fo knowledg	duction, functio ad, Ecological te energy: solar er prage lectures, audito pr better unders ge is practically	n, evaluat echnologi nergy, win ory, labora standing o applied in	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au l laboratory practical clas	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas	and product ies: reciclyng energy y env ures theoretic ses, charac	g, obrada ironment, cal part is cteristical
Manage Multicri zrakom geother 4. Teac Lecture present exercise	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired	rigin, intro nment loa enewable energy sto y through amples fo knowledg	duction, functio ad, Ecological te energy: solar er orage lectures, audito or better unders ge is practically consultations ar	n, evaluat echnologio nergy, win ory, labora standing o applied in e held reg	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly.	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas	and product ies: reciclyng energy y env ures theoretic ses, charac	g, obrada ironment, cal part is cteristical
Manage Multicri zrakom geother 4. Teac Lecture present exercise	ement System iterial evaluation sunca, solar e rmal energy, hy ching methods: es are realized ted with chara es are coveren rom lectures an	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	duction, functio ad, Ecological te energy: solar er orage lectures, audito or better unders ge is practically consultations ar Knowledge e	n, evaluat echnologio nergy, win ory, labora standing o applied in e held reg evaluation	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points)	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sses using avalilable	and product ies: reciclyng energy y env rres theoretic laboratory ec	g, obrada ironment, cal part is cteristical
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	Induction, function ad, Ecological to energy: solar er prage	n, evaluat echnologio nergy, win ory, labora standing o applied in e held reg evaluation Points	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final ei	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac	g, obrada ironment cal part is cteristical quipment Points
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with charat es are coveren rom lectures an Pre-examina	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	duction, functio ad, Ecological te energy: solar er orage lectures, audito or better unders ge is practically consultations ar Knowledge e	n, evaluat echnologio nergy, win ory, labora standing o applied in e held reg evaluation Points 5.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points)	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac laboratory ec Mandatory	g, obrada ironment, cal part is cteristical quipment. Points 30.00
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer rom lectures an Pre-examina- e attendance attendance	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	Induction, function ad, Ecological te energy: solar er orage Iectures, audito or better unders ge is practically consultations ar Knowledge e Mandatory Yes	n, evaluat echnologio nergy, win ory, labora standing o applied in e held reg evaluation Points 5.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac laboratory ec Mandatory Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00
Manage Multicri zrakom geother 4. Teac Lecture present exerciss Apart fr Lecture Term pa Test	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer rom lectures an Pre-examina- e attendance attendance	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	lectures, auditor ad, Ecological te energy: solar er orage lectures, auditor or better unders ge is practically consultations ar Knowledge e Mandatory Yes Yes	n, evaluat echnologi nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac laboratory ec Mandatory Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00
Manage Multicri zrakom geother 4. Teac Lecture present exerciss Apart fr Exerciss Lecture Term pa	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer rom lectures an Pre-examina- e attendance attendance	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	Induction, function ad, Ecological te energy: solar er orage Iectures, audito or better unders ge is practically consultations ar Knowledge e Mandatory Yes Yes Yes	n, evaluat echnologi nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac laboratory ec Mandatory Yes	g, obrada ironment, cal part is cteristical quipment.
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise Lecture Term pa Test	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coverer rom lectures an Pre-examina- re attendance attendance	: purpose, or on of enviror electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	Interpretation of the second s	n, evaluat echnologio nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using avalilable	and product ies: reciclyng energy y env ures theoretic ses, charac laboratory ec Mandatory Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00
Manage Multicri zrakom geother 4. Teac Lecture present exerciss Apart fr Lecture Term pa Test	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coveren rom lectures an Pre-examina e attendance aper	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical ation obligatio	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o	Interpretation of the second s	n, evaluat echnologio nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam Oral part of the exam	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using available xam - tasks and theory Publishe	and product ies: reciclyng energy y env rres theoretic ises, charac laboratory ec Mandatory Yes Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise Lecture Term pa Test Test	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coveren rom lectures an Pre-examina e attendance aper A Hodolič, J.; E Majernik, M.;	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical ation obligatio	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, c	Induction, function ad, Ecological te energy: solar er prage	n, evaluat echnologio nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam Oral part of the exam	ronmental evaluation Ecological technolog ly, hydrogen energy, tical classes. In lectu uditory practical clas sees using available xam - tasks and theory Publishe Fakultet tehničkih n Sad	and product ies: reciclyng energy y env ires theoretic ises, charac laboratory ec Mandatory Yes Yes Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00 20.00
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise Lecture Term pa Test Test Ord.	ement System iterial evaluation sunca, solar e rmal energy, hy ching methods: es are realized ted with charates are coverent rom lectures and Pre-examinate e attendance aper A Hodolič, J.; E Majernik, M.; Hodolič, J., V Hadžistević,	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic exa rd. Acquired nd practical ation obligatio ation obligatio ation obligatio suthor Badida, M.; <u>Šebo, D.</u> /ukelić, Đ., M., Budak, I.	rigin, intro nment loa energy sto y through amples fo knowledg classes, c ons	Induction, function ad, Ecological te energy: solar er prage	n, evaluat echnologi nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au l aboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam Oral part of the exam dure ature	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas sees using available xam - tasks and theory Publishe Fakultet tehničkih n	and product ies: reciclyng energy y env ires theoretic ises, charac laboratory ec Mandatory Yes Yes Yes	g, obrada ironment, cal part is cteristical quipment. Points 30.00 20.00 Year
Manage Multicri zrakom geother 4. Teac Lecture present exerciss Apart fr Exerciss Lecture Term pa Test Test Test Ord. 1,	ement System iterial evaluation sunca, solar er rmal energy, hy ching methods: es are realized ted with chara es are coveren rom lectures an Pre-examina e attendance aper A Hodolič, J.; E Majernik, M.; Hodolič, J., V Hadžistević, Hodolič, J., V Budak, I., Be J.	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic ex: rd. Acquired nd practical ation obligatio ation obligatio ation obligatio ation obligatio fullow adida, M.; <u>Šebo, D.</u> /ukelić, Đ., šić, I., Murar	rigin, intro nment loa energy sto y through amples fo knowledg classes, o ons ons <u>Maa</u> <u>i dr. Rec</u> nsky, Eko	duction, functio ad, Ecological te energy: solar er orage lectures, audito or better unders ge is practically consultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Sinstvo u inženje	n, evaluat echnologio nergy, win ergy, win estanding of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title erstvu zaš ne tehnolo	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In au l aboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam Oral part of the exam dure ature	ronmental evaluation Ecological technolog ly, hydrogen energy, tical classes. In lectu uditory practical clas ses using avalilable xam - tasks and theory - tasks and theory Fakultet tehničkih n Sad Fakultet teničkih na	and product ies: reciclyng energy y env rres theoretic ises, charac laboratory ec Mandatory Yes Yes Yes er auka, Novi uka, Novi	g, obrada ironment, cal part is cteristical quipment. Points 30.00 20.00 Year 2005
Manage Multicri zrakom geother 4. Teac Lecture present exercise Apart fr Exercise Lecture Term pa Test Test Ord. 1, 2,	ement System iterial evaluation sunca, solar errmal energy, hy ching methods: es are realized ted with charates are coverent rom lectures and Pre-examinate e attendance aper Hodolič, J.; E Majernik, M.; Hodolič, J., V Hadžistević, Hodolič, J., V	: purpose, or on of environ electricity. Re ydropower. e interactively acteristic ex: rd. Acquired nd practical ation obligatio ation obligatio ation obligatio ation obligatio ation obligatio (ukelić, Đ., <u>Xuthor</u> <u>Badida, M.; <u>Šebo, D.</u> (ukelić, Đ., šić, I., Murar adolič, J.; Ste</u>	rigin, intro nment loa enewable energy sto y through amples fo knowledg classes, o ons ons <u>i dr. Rec</u> nsky, Eko	Induction, function ad, Ecological te energy: solar er orage Iectures, audito or better unders ge is practically consultations ar Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Sinstvo u inženje ciklaža i reciklaž	n, evaluat echnologi nergy, win ory, labora standing of applied in e held reg evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter rstvu zaš ne tehnolo azvoj u m	ion, Methodology of envi es and future systems. I d energy, biomass energ atory and computer prac of subject content. In an laboratory practical clas gularly. (maximum 100 points) Final e: Written part of the exam Oral part of the exam drature	ronmental evaluation Ecological technolog y, hydrogen energy, tical classes. In lectu uditory practical clas isses using available xam - tasks and theory Publishe Fakultet tehničkih na Sad Fakultet teničkih na	and product ies: reciclyng energy y env ures theoretic laboratory ec Mandatory Yes Yes Yes er auka, Novi uka, Novi auka, Novi	g, obrada ironment, cal part is cteristical quipment. Points 30.00 20.00 Year 2005 2011



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Table 5.2 Course specification Course: Contemporary Tools in CIM Systems Course id: P1502B Number of ECTS: 5 Teacher: Sovilj N. Bogdan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Study research work: Other classes: 3 0 2 0 0 Precondition courses None 1. Educational goal: Acquiring fundamental knowledge in the field of tools and CIM systems. 2. Educational outcomes (acquired knowledge): Acquired knwoledge should enabel students to apply tools for CIM. 3. Course content/structure: Science on tool construction for cutting. Contemporary tool designing methods. Tool creation phase for Cim systems. Contemporary development trends in the field of rational production, exploitation and maintanance of cutting tools. Indicators and methods for cutting tools quality evaluation. Cutting tool evolution. Cutting tools for automated machine tools with programme control in FTS. Tool monitoring for CIM systems. Automated designing, regulation and tool change for CIM systems. Cutting tools control in CIM, CAE systems. 4. Teaching methods: Lectures are realized interactively through lectures, auditory, laboratory and computer practical classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. Practical work is performed by computer application. Apart from lectures and practical classes, consultations are held regularly. Knowledge evaluation (maximum 100 points) Mandatory Points Mandatory Points Pre-examination obligations Final exam Laboratory exercise attendance 5.00 Written part of the exam - tasks and theory 30.00 Yes Yes Lecture attendance 5.00 Oral part of the exam 30.00 Yes Yes Project task Yes 15.00 Project task 15.00 Yes Literature Ord. Author Title Publisher Year Podloge za predavanja - tribologija i alati za "CIM" 1, Sovilj, B. Autorsko izdanje 2012 sisteme Tanasijević, S Mašinski fakultet, Kragujevac 2004 2, Tribološki ispravno konstruisanje Ivković, B., Rac, A. 1995 3, Tribologija i tehnologija podmazivanja Studio plus, Beograd 4. Babić, M. Mašinski fakultet, Kragujevac 2004 Monitoring ulja za podmazivanje



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

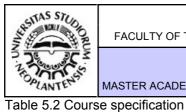
Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Course i									
	id:	P1509			High	ly Productive Pr	rocessing		
Number	of ECTS:	6							
Teacher	rs:		Kovač P. Pa	vel, Gostimiro	vić P. Ma	rin, Sekulić Lj. Milenko			
Course s	status:		Elective						
Number	of active teac	hing classe	es (weekly)						
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	()	3		0		0	
Precond	dition courses			None			•		
1. Educa	ational goal:								
Acquirin	ng fundamenta	l knowledg	e in productiv	e, highly prod	luctive and	dultra precise processing			
2. Educa	ational outcom	nes (acquir	ed knowledge	e):					
Acquired	d knowledge s	hould enal	ole students to	o identify, dev	elop and i	mplement highly productiv	ve and precise mach	ining.	
3. Cours	se content/stru	icture:							
high spe processi material	eeds or deep	cuts. Pro od applicat . Milling pr	cessing with ion with the a	highly porou im to increas	s abrasiv e consiste	e and ultra precise proce e grinding wheel. Weari ncy. Processing methods ed material. Mechanisms	ng mechanisms of o s in heated state with	liamond tools the aim of a	s in steel dvancing
4. Teach	hing methods:								
presente are cove	ed with charac	teristic exa d knowledg	amples for be ge is practical	tter understar ly applied in l	nding of su laboratory	atory and computer pract bject content. In auditory practical classes using a	practical classes, c	haracteristic e	exercises
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	tion obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
	er exercise att			Yes		Written part of the exam	 tasks and theory 	Yes	55.00
	ory exercise at	ttendance		Yes		Oral part of the exam		Yes	15.00
Lecture Test	attendance			Yes	5.00 20.00				
TESI				Yes		ature			
Ord.	۸	uthor			Title		Publishe	n l	Year
0ra. 1,	Kovač, P.	luthor	Visok	o produktine o			FTN, Novi Sad	51	2007
2,	Mankova Ildil	ko		esivne techno			Strojnicka fakulta T Vienala	U Kosice,	2002
3,	Trent E., Wrig	ght P.	Metal	Cutting			Butterworth–Heiner Woburn, USA	nann,	2000
4,	Schulz H.		High	Speed Machir	ning		Carl Hanser Verlag	Wien	1996



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



Study Programme Accreditation

Course:				_					
Course	id:	P3502		Μ	lold an	d die machining	technology		
Number	r of ECTS:	6							
Teacher	rs:		Gostimirović	P. Marin, Kov	vač P. Pav	el, Sekulić Lj. Milenko			
Course	status:		Elective						
Number	r of active teac	hing classe	s (weekly)						
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	3	0		3		0		0	
Precond	dition courses			None		•			
1. Educa	ational goal:								
Enablinę	g students for	toolmaking	procedures	for plastics pr	oducts.				
2. Educa	ational outcom	nes (acquire	d knowledge):					
Acquire created	d knowledge for economic	enable app and qualit	lication of m y production	odern techno of this kind o	ologies to of tools.	manufacturing tools for p	plastics. In that way	good founda	ations are
3. Cours	se content/stru	icture:							
ECM, L Applicat process product	BM etc.). Cor tion of high-s ses in tools fo	nbined met peed proce r plastics p	hods for mai sses in tools roduction. Co	nufacturing to s for plastic p omparison of	ools create production possibiliti	ufacturing of tools for pla- ed by integration of conve- . Importance of CAD/CA es EDM and high-speed .uring tools for plastics.	entional and non-co M systems for appl	nventional p ication of hi	rocesses gh-speed
Lectures theoretic appropr practica consulta	s are realized cal part is pre riate projects al classes stu ations are held	sented with and semina dents are f for the pur	appropriate ar papers. In aught to us pose of clarif	practical exa order to exp e information cation of subj	mples. Du band pract technolo ect conter	practical classes, consultauring auditory practical cl tical knowledge, various gies in the field of the s thand help elaboration of thand seminar paper.	asses exercises are companies are visi subject content. Ap	performed a ted. During a transmission of the second second second second second second second second second se	as well as computer t regular
				Knowledge e	evaluation	(maximum 100 points)			1
<u> </u>	Pre-examina	tion obligat	ions	Mandatory	Points	Final ex	am	Mandatory	Points
	e attendance			Yes		Oral part of the exam		Yes	50.00
Graphic Lecture	attendance			Yes Yes	20.00 5.00				
Test				Yes	10.00				
Test				Yes	10.00				
					Litera	ature			
Ord.	A	uthor			Title		Publishe	r	Year
1,	Milikić, D., G Sekulić, M.	ostimirović,	M., Osno	ve tehnologije	obrade re	zanjem	Fakultet tehničkih n Sad	auka, Novi	2008
2,	Gostimirović	M.	Neko	nvencionalni p	oostupci ol	orade	Fakultet tehničkih n Sad	auka, Novi	2012
3,	Sandvik Cord	omant		/lold making-/		guide	Sandvik Coromant		2010
4,	Schulz H.		Liab	Speed Machir	inan		Carl Hanser Verlag		1996



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



Study Programme Accreditation

Production Engineering

Course:			Fun	damenta	als on l	Protection for O	peration on F	Processi	na
Course	id:	PR408				Machines	peration en i	100000	.9
Number	of ECTS:	5				Machines			
Teache	rs:		Zeljković V.	Milan, Tabako	ović N. Slo	bodan			
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	dition courses			None		1			
1. Educ	ational goal:								
	tection of the					al removal in the industry d cutting machiens and r			
2. Educ	ational outcom	nes (acquire	ed knowledge	e):					
materia	l removal in i	ndustrial p	rocessing of	f materials an	d machin	perator on machines for e safety testing method for wood processing, pla	ology. Knowledge of	f operation p	orinciples,
3. Cours	se content/stru	icture:							
Safety s construct machine estimati 4. Teach	standards for ction. Source e type for indu ion. Manuals hing methods:	machine o and risk zo ustrial mat for safe op	operating. Gone definition erial process peration.	eneral princip depending or sing. Protectio	les for de level of a on device	processing machines wit esigning systems for ma automation. Protection de s for processing wood, p ercises, and auditory an	chine safety. Risk re evices and protection plastic and similar m	eduction with blockage wi aterials. Mac	n suitable th certain chine risk
exercise		cquired kn	owledge in th	ne definition of	f design m	nodels. Through laborato			
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	ation obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Comput	er exercise att	tendance		Yes	2.00	Written part of the exam	 tasks and theory 	Yes	30.00
Graphic				Yes		Oral part of the exam		Yes	20.00
Graphic				Yes	20.00				
	ory exercise a	ttendance		Yes	3.00	-			
Lecture	attendance			Yes	5.00				
	•					ature			
Ord. 1,	Zeljković M, I	uthor Borojev LJ,	' Bezh	ednost mašina	Title		Publishe FTN, u pripremi	er	Year 2009
2,	Vilotić D. Borojev LJ, Z	eliković M			· · /	ura obradnih sistema	FTN, u pripremi		2009
2,	Vilotić D.					njem – pomoćni materijal	FTN,Novi Sad		2009
	Kršljak B.			ne i alati za ob		, , ,	uljarice publik, Bgd		2000
5,	Zeljković, M.,	, Tabaković	S Osno		radu na m	ašinama za obradu,	Fakultet tehničkih n Sad	auka Novi	2012



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

A REAL PROPERTY OF A REAL PROPER

Study Programme Accreditation

Production Engineering

Course: **Environment Protection System Management** Course id: Z416A Number of ECTS: 5 Teachers: Budak M. Igor, Hadžistević J. Miodrag, Hodolič J. Janko, Vukelić B. Đorđe Course status: Elective Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 3 0 2 0 0 Precondition courses None 1. Educational goal: Acquiring fundamental knowledge on reasons for implementation and realization of environment protection system management. 2. Educational outcomes (acquired knowledge): Acquiring knowledge on tools for environment protection and relization of environment protection system management. 3 Course content/structure: Managing aspects and influences of environment protection (strategy, orientation, fundamental principles, priorities and state politics objectives). Tools for managing environment protection (product conviniency from the point of view of engineering protection, product life service analysis, influence analysis and activities on environmnet, intelligent product systems). Risk evaluation and management. Ecological marking and evaluation of products. Reasons for implementation of environment protection system management. Designing systems for managing environment protection. Designing system algorithm decomposition. Subject accredation. Certification of environment protection system management. Economic efficiency of environment protection system management. Integrated management systems. 4. Teaching methods: Lectures are realized in the form of lectures, auditory and computer practical classes, consultations and company visits. During lectures theoretical part is presented with appropriate practical examples. During auditory practical classes excercises are performed as well as appropriate projects and seminar papers. In order to expand practical knowledge, various companies are visited. During computer practical classes students are taouth to use infromation technologies in the field of the subject content. Apart from that regular consultations are held for the purpose of clarification of subject content and help elaboration of projects and seminar papers. Final mark is formed on the basis of class attendance, partial examination resutls, project and seminar paper. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Mandatory Final exam Points Exercise attendance 5.00 Written part of the exam - tasks and theory 30.00 Yes Yes Lecture attendance 5.00 Oral part of the exam 20.00 Yes Yes Term paper 20.00 Yes Test Yes 10.00 Test 10 00 Yes Literature Title Publisher Ord Author Year Hodolič, J.; Stević, M.; Fakultet tehničkih nauka, Novi Upravljanje zaštitom životne sredine - Eko 2009 1, Budak, I.; Antić, A. i dr menadžment Sad Upravljanje kvalitetom životne sredine Univerzitet u Novom Sadu reinženjeringom industrijskih proizvoda i procesa 2006 2, Glišović, S. CIMSI konstruisania Fakultet tehničkih nauka, Novi 3, Šooš, LJ., Hodolič, J. Upravljanje otpadom u Slovačkoj 2008 Sad



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

THE REAL PROPERTY OF

Study Programme Accreditation

Production Engineering

Course: Process Design in Welding Technology Course id: P2501 Number of ECTS: 6 Teachers: Baloš S. Sebastian, Šiđanin P. Leposava Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 1 2 0 0 Precondition courses 1. Educational goal: Acquiring knowledge in the field of designing welding technologies. 2. Educational outcomes (acquired knowledge): Acquired knowledge are used for construction welding designing technologies. 3. Course content/structure: Fundamentals of metallurgy of iron welding, the choice of fundamental material, welding procedures, additional and assisting materials for welding, parameters for welding state and welding technologies calculations for various types of welded constructions 4. Teaching methods: Lectures are realized interactively through lectures, auditory, laboratory and computer practical classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. In auditory practical classes, characteristical exercises are covererd. Acquired knowledge is practically applied in laboratory practical classes using available laboratory equipment. Apart from lectures and practical classes, consultations are held regularly. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Exercise attendance 5.00 Theoretical part of the exam Yes 60.00 Yes Lecture attendance 5.00 Yes 10.00 Presentation Yes Term paper 20.00 Yes Literature Ord. Author Title Publisher Year Fakultet tehničkih nauka - Novi Palić, V. Zavarivanje 1987 1, Sad Fakultet tehničkih nauka - Novi 2, Sabo, B. Zbirka rešenih primera iz zavarivanja - skripta 2003 Sad Novosadski sajan DD - Novi 3. Sabo, B.; i dr. Zavarivanje nerđajućih čelika - priručnik 1995 Sad Zbirka standarda - Obezbeđenje kvaliteta u 4 Grupa autora DUZS i SZS u Beogradu 1996 zavarivaniu



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

Study Programme Accreditation

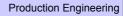


Table 5.2 Course specification

MASTER ACADEMIC STUDIES

	:								
Course	id:	P2502		Pr	opertie	es and Selectior	n of Materials	5	
Number	r of ECTS:	5							
Teache	rs:		Gerić D. Kat	arina, Šiđanin	P. Lepos	ava			
Course	status:		Elective						
Number	r of active tead	ching classe	es (weekly)						
L	.ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	()	2		0		0	
Precond	dition courses	-		None		•	•		
1. Educ	ational goal:								
Acquirir	ng knowledge	in the field	of scinece an	d materials ar	nd material	s used in mechanical eng	jineering.		
2. Educ	ational outcon	nes (acquir	ed knowledge):					
	ed knowledge tion of materi					n characteristics and continues.	ntemporary materia	ls characteris	stics and
3. Cour	se content/stru	ucture:							
prevent fracture macro a	tion of engine mechanisms	eering failu fracture m ture during	res, elastic a lechanisms o	nd plastic de f metals cera	formation mics and	neling - general effects, form continuum and mic composites. Microscopic	croscopic viewpoint,	linear and n	on linear
		metals, cera			id at room	and elevated temperature			
4. Teac	hing methods:	,			d at room				
Lecture present exercise	es are realized ted with chara	l interactive acteristic e rd. Acquire	amics and co ely through le xamples for d knowledge	ctures, audito better under is practically	ory, labora standing o applied in	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas	e. Creep fatique, wea ical classes. In lectu ditory practical clas	ar and enviror ures theoretic sses, charac	al part is
Lecture present exercise	es are realized ted with chara es are covere	l interactive acteristic e rd. Acquire	amics and co ely through le xamples for d knowledge	nposits. ctures, audito better under is practically nsultations ar	ory, labora standing o applied in re held reg	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas	e. Creep fatique, wea ical classes. In lectu ditory practical clas	ar and enviror ures theoretic sses, charac	amentally al part is
Lecture present exercise	es are realized ted with chara es are covere	l interactive acteristic e rd. Acquire nd practica	amics and co ely through le xamples for d knowledge al classes, co	nposits. ctures, audito better under is practically nsultations ar	ory, labora standing o applied in re held reg	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly.	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable	ar and enviror ures theoretic sses, charac	amentally
Lecture present exercise Apart fr Homew	es are realized ted with chara es are covere rom lectures a Pre-examina rork	l interactive acteristic e rd. Acquire nd practica ation obliga	amics and co ely through le xamples for d knowledge al classes, co	nposits. ctures, audito better under is practically nsultations ar Knowledge of	ory, labora standing o applied in e held reg evaluation Points 20.00	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points)	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable	ar and enviror ures theoretic sses, charac laboratory ec	nmentally al part is steristical quipment.
Lecture present exercise Apart fr Homew Laborat	es are realized ted with chara es are covere rom lectures a Pre-examina vork tory exercise a	l interactive acteristic e rd. Acquire nd practica ation obliga	amics and co ely through le xamples for d knowledge al classes, co	nposits. ctures, audito better under is practically nsultations ar Knowledge e Mandatory Yes Yes	ory, labora standing of applied in e held reg evaluation Points 20.00 5.00	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable	ar and enviror ures theoretic sses, charac laboratory ec Mandatory	nmentally al part is teristical quipment. Points
Lecture present exercise Apart fr Homew Laborat	es are realized ted with chara es are covere rom lectures a Pre-examina rork	l interactive acteristic e rd. Acquire nd practica ation obliga	amics and co ely through le xamples for d knowledge al classes, co	nposits. ctures, auditu better under is practically nsultations ar Knowledge e Mandatory Yes	ory, labora standing o applied in e held reg evaluation Points 20.00 5.00 5.00	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex Written part of the exam	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable	ar and enviror ures theoretic sses, charac laboratory ec Mandatory	nmentally al part is teristical quipment. Points
Lecture present exerciss Apart fr Homew Laborat Lecture	es are realized ted with chara es are covere rom lectures a Pre-examina rork tory exercise a e attendance	l interactive acteristic e rd. Acquire nd practica ation obliga ttendance	amics and co ely through le xamples for d knowledge al classes, co	nposits. ctures, audito better under is practically nsultations ar Knowledge e Mandatory Yes Yes	ory, labora standing of applied in e held reg evaluation Points 20.00 5.00 5.00 Litera	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex Written part of the exament ature	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable cam - tasks and theory	ar and enviror ures theoretic sses, charac laboratory ec Mandatory Yes	nmentally ral part is cteristical quipment. Points 70.00
Lecture present exercise Apart fr Homew Laborat	es are realized ted with chara es are covere rom lectures a Pre-examina rork tory exercise a e attendance	I interactive acteristic e rd. Acquire nd practica ation obliga ttendance	amics and co ely through le examples for d knowledge al classes, co tions	nposits. ctures, auditu better unders is practically nsultations ar Knowledge e Mandatory Yes Yes Yes Yes	ory, labora standing of applied in e held reg evaluation Points 20.00 5.00 5.00 Litera Title	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex Written part of the exament ature	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable	ar and enviror ures theoretic sses, charac laboratory ec Mandatory Yes	nmentally al part is teristical quipment. Points
Lecture present exercise Apart fr Homew Laborat Lecture Ord.	Pre-examina rork tory exercise a Pre-axamina rork	I interactive acteristic e rd. Acquire nd practica ation obliga ttendance Author .W.	amics and co ely through le examples for d knowledge al classes, co tions tions	nposits. ctures, audito better unders is practically nsultations ar Knowledge e Mandatory Yes Yes Yes Yes mation and Frials	ory, labora standing of applied in e held reg evaluation Points 20.00 5.00 5.00 Litera Title racture Me	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex Written part of the exament ature	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable cam - tasks and theory Publishe John Wiley and son Tehnološko-metalu	ar and enviror ures theoretic sses, charac laboratory ec Mandatory Yes er as, inc.	Points 70.00 Year
Lecture present exercise Apart fr Homew Laborat Lecture Ord. 1,	es are realized ted with chara es are covere rom lectures a Pre-examina rork tory exercise a ettendance	l interactive acteristic e rd. Acquire nd practica ation obliga ttendance Author	amics and co ely through le examples for d knowledge al classes, co tions Defor Mater Fizičk	nposits. ctures, audito better unders is practically nsultations ar Knowledge e Mandatory Yes Yes Yes Yes mation and Frials	ory, labora standing o applied in e held reg evaluation Points 20.00 5.00 5.00 Litera Title racture Me – fizika čv	and elevated temperature atory and computer pract of subject content. In au laboratory practical clas jularly. (maximum 100 points) Final ex Written part of the exam ature echanics of Engineering rstoće i plastičnosti 1	e. Creep fatique, wea ical classes. In lectu ditory practical clas ses using avalilable aam - tasks and theory Publishe John Wiley and sor	ar and enviror ures theoretic sses, charac laboratory ec Mandatory Yes er as, inc.	Points 70.00 Year 1996



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

Study Programme Accreditation

Production Engineering



MASTER ACADEMIC STUDIES Table 5.2 Course specification

Course:				_	_				
Course	id:	P2503		Pro	cess l	Design in Castir	ng Lechnolog	у	
Number	of ECTS:	5							
Teacher	rs:	1	Kakaš I. Dar	nir, Škorić N.	Branko				
Course	status:	1	Elective						
Number	of active teac	ching classes	s (weekly)						
Le	ectures:	Practical of	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	sses:
	3	0		3		()	0	
Precond	dition courses	-		None					
1. Educa	ational goal:								
	to optimize e					ry technological procedu existing foundry facility			
2. Educa	ational outcom	nes (acquired	d knowledge):					
						rn foundries. He will gai manage and optimize all		lge relating to	o foundry
3. Cours	se content/stru	ucture:							
	ing objectives		signment.	Cast house o	design an	d fundamental econom	ic indicators. Produc	ction progran	nme and
Designi technolo Issues in laborato Improvir	ogical process n core manufa ory in cast hou	s, project as definition. Nacturing and ises. Internal ciency of fou	Aelting equip assembly. (I transport sy undries. Eco	oment design Cleaning of ca ystems in four logy in castin	and selec stings. Th ndries. De	d fundamental econom tion. Molding and sand p termal treatment of castin sign of cast house building of pollution source, re	preparation equipmen ngs and finishing oper ngs. Heating, ventilati	t design and s rations. Qualition and lightin	selection ty control ng issues
Designi technolo Issues in laborato Improvir and proo	ogical process n core manufa ory in cast hou ng energy effi	s, project as s definition. Macturing and uses. Internal ciency of fou amples of mo	Aelting equip assembly. (I transport sy undries. Eco	oment design Cleaning of ca ystems in four logy in castin	and selec stings. Th ndries. De	tion. Molding and sand p nermal treatment of castin sign of cast house buildi	preparation equipmen ngs and finishing oper ngs. Heating, ventilati	t design and s rations. Qualition and lightin	selection ty control ng issues
Designi technolo Issues in laborato Improvir and prod 4. Teach Forms c necessa	ogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re	s, project as definition. M acturing and ises. Internal ciency of fou amples of mo tivities are le	Aelting equip assembly. C I transport sy undries. Eco odern found odern found ectures, labo	oment design Cleaning of ca ystems in four logy in castin ries. pratory praction ures, subject r	and selec istings. Th ndries. De g – definir cal classe matter is p	tion. Molding and sand p nermal treatment of castin sign of cast house buildi	preparation equipmenings and finishing oper ngs. Heating, ventilati gulations and problem y design projects, and stimulating their activ	t design and s rations. Qualiti on and lightin m solution (ed d consultation re participation	selection ty control ng issues quipment
Designi technolo Issues in laborato Improvir and prod 4. Teach Forms conecessa	ogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re	s, project as definition. M acturing and ises. Internal ciency of fou amples of mo tivities are le	Aelting equip assembly. C I transport sy undries. Eco odern found odern found ectures, labo	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi ures, subject r they are assi	and selec astings. Th ndries. De g – definir cal classe matter is p gned. Stu	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re es, consultations, foundry presented to students by	preparation equipmenings and finishing oper ngs. Heating, ventilati gulations and problem y design projects, and stimulating their activ	t design and s rations. Qualiti ion and lightin m solution (ed d consultation re participation	selection ty control ig issues quipment ns. Using
Designi technolc Issues in laborato Improvir and prov 4. Teach Forms c necessa are requ	pogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina	s, project as a definition. N acturing and ises. Internal ciency of fou amples of mo tivities are le esources dur n the conten	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi ures, subject r they are assi	and selec astings. Th ndries. De g – definir cal classe matter is p gned. Stur evaluation Points	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne.	selection ty control ng issues quipment ns. Using n as they Points
Designi technolc Issues in laborato Improvir and pro- 4. Teach Forms c necessa are requ Homewo	pogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork	s, project as s definition. N acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten ation obligatio	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi ures, subject r they are assi Knowledge e Mandatory Yes	and selec astings. Th ndries. De g – definir cal classe matter is p gned. Stud evaluation Points 10.00	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points)	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualiti ion and lightin m solution (ed d consultation re participation ne.	selection ty control g issues quipment ns. Using n as they Points
Designi technolc Issues in laborato Improvir and prov 4. Teach Forms c necessa are requ Homewo Laborato	pogical process n core manufa ory in cast hou ng energy effi cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork ory exercise a	s, project as s definition. N acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten ation obligatio	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Diratory practi- irres, subject r they are assi Knowledge e Mandatory Yes Yes	and selec astings. The ndries. De g – definir cal classe matter is p gned. Stur evaluation Points 10.00 5.00	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne.	selection ty control g issues quipment ns. Using n as they Points
Designi technolc Issues in laborato Improvir and prov 4. Teach Forms c necessa are requ Homewo Laborato Lecture	pogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork	s, project as s definition. N acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten ation obligatio	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi ures, subject r they are assi Knowledge e Mandatory Yes	and selec astings. Th ndries. De g – definir cal classe matter is p gned. Stud evaluation Points 10.00	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne.	selection ty control g issues quipment ns. Using n as they Points
Designi technolc Issues in laborato Improvir and prov 4. Teach Forms c necessa are requ Homewo Laborato	pogical process n core manufa ory in cast hou ng energy effi cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork ory exercise a	s, project as s definition. N acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi- ures, subject r they are assi Knowledge e Mandatory Yes Yes Yes	and selec astings. The ndries. De g – definir cal classe matter is p gned. Stud evaluation Points 10.00 5.00 5.00 40.00	tion. Molding and sand p nermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne.	selection ty control ng issues quipment ns. Using n as they Points
Designi technolc Issues in laborato Improvir and provi 4. Teach Forms c necessa are requ Homewo Laborato Lecture	ogical process n core manufa ory in cast hou ng energy effi- cedures). Exa hing methods: of teaching ac ary teaching re- uired to explain Pre-examina ork ory exercise a attendance	s, project as s definition. N acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi- ures, subject r they are assi Knowledge e Mandatory Yes Yes Yes	and selec astings. The ndries. De g – definir cal classe matter is p gned. Stud evaluation Points 10.00 5.00 5.00 40.00	tion. Molding and sand p hermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e Oral part of the exam ature	oreparation equipmenings and finishing oper ngs. Heating, ventilati egulations and problem y design projects, and stimulating their activ he design project alor	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne. Mandatory Yes	selection ty contro ig issues quipmen ns. Using n as they Points
Designi technolc Issues in laborato Improvir and provir and provir 4. Teach Forms con necessa are requir Homework Laborato Lecture Project	pogical process n core manufa ory in cast hou ng energy effi cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork ory exercise a attendance A Zrnić, Đ., Pro	s, project as s definition. M acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten ation obligation ttendance	Aelting equip assembly. C I transport sy undries. Eco odern foundi ectures, labo ring the lectu ts for which ons	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi- ures, subject r they are assi Knowledge e Mandatory Yes Yes Yes	and select astings. The hadries. De g – definin cal classe matter is p gned. Stud evaluation Points 10.00 5.00 5.00 40.00 Liter Title	tion. Molding and sand p hermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e Oral part of the exam ature	preparation equipmenings and finishing oper ngs. Heating, ventilati gulations and problem y design projects, and stimulating their activ he design project alor xam	t design and s rations. Qualition and lightin m solution (ed d consultation re participation ne. Mandatory Yes	selection ty control g issues quipment ns. Using n as they Points 40.00
Designi technolc Issues in laborato Improvir and prov 4. Teach Forms c necessa are requ Homewo Laborato Lecture Project	pogical process n core manufa ory in cast hou ng energy effi cedures). Exa hing methods: of teaching ac ary teaching re uired to explain Pre-examina ork ory exercise a attendance	s, project as s definition. M acturing and lises. Internal ciency of fou amples of mo stivities are le esources dur n the conten ation obligation ttendance	Aelting equip assembly. C I transport sy undries. Eco odern found ectures, labo ring the lectu ts for which ons	oment design Cleaning of ca ystems in four logy in castin ries. Dratory practi- ures, subject ri they are assi Knowledge e Mandatory Yes Yes Yes Yes Yes	and select astings. The hadries. De g – definin cal classe matter is p gned. Stud evaluation Points 10.00 5.00 5.00 40.00 Liter Title	tion. Molding and sand p hermal treatment of castin sign of cast house building of pollution source, re- es, consultations, foundry presented to students by dents are obliged to do t (maximum 100 points) Final e Oral part of the exam ature	Preparation equipmentings and finishing oper ngs. Heating, ventilati equilations and problem y design projects, and stimulating their activ he design project alor xam Publishe	t design and s rations. Qualition on and lightin m solution (ed d consultation re participation ne. Mandatory Yes er Beograd	selection ty control ng issues quipment ns. Using n as they Points 40.00



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



Study Programme Accreditation

Production Engineering

Course	:								
Course	id:	P2507				Nanotechnolog	gies		
Number	r of ECTS:	6							
Teache	rs:		Kakaš I. Dan	nir, Škorić N.	Branko				
Course	status:		Elective						
Number	r of active teac	hing classe	es (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	C)	2		0		0	
Precon	dition courses			None		-	•		
1. Educ	ational goal:								
Introduc	ction to main di	rections of	modern scine	ece developm	ent – nan	omaterials and nanotechr	ologies.		
2. Educ	ational outcom	es (acquire	ed knowledge):					
	t is able to co ations of tool			f nanotechno	logies in	mechanical engineering	related to ultraprec	ise forming a	and nano
3. Cour	se content/stru	cture:							
(MEMS		onal mater	ials. Perfomi	ng processe	paramete	vel. Nano structures proc ers. Characterisation of r anotribology.			
4. Teac	hing methods:								
present exercis	ted with chara	cteristic e d. Acquire	xamples for d knowledge	better unders is practically	standing applied ir	atory and computer pract of subject content. In au I laboratory practical clas gularly.	ditory practical clas	ses, charac	teristical
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	tion obligat	tions	Mandatory	Points	Final e>	am	Mandatory	Points
Homew				Yes		Oral part of the exam		Yes	40.00
Homew	•			Yes	40.00				
	ory exercise at	tendance		Yes	5.00				
Lecture	attendance			Yes	5.00				
						ature			
Ord.		uthor		<u> </u>	Title	2	Publishe		Year
1,	Grupa autora			echnology			European Commisio	on	2004
2,	Poole, C. P., T.M. Nenado			uction to nand			Wiley Interscience	nauke	2003
3,	Pavlović	vio, 1.ivi.	Fizika	i tehnika tanl	kih slojeva	1	"Vinča", Beograd	Tiduke	1997



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



Study Programme Accreditation

Production Engineering

Course:								
Course id:	PTS01			Т	echnology of sir	ntering		
Number of ECTS:	5							
Teachers:	В	aloš S. Seb	astian, Gerić	D. Katarir	na, Šiđanin P. Leposava,	Vilotić Ž. Dragiša		
Course status:	E	ective						
Number of active tea	ching classes	(weekly)						
Lectures:	Practical cl	asses:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
3	0		2		0		0	
Precondition courses	;		None		•	•		
1. Educational goal:			-					
Knowledge transfer i	n technology o	f sintering.						
2. Educational outco	mes (acquired	knowledge)):					
The excpectance is e	education in the	e field of sin	itering techno	logy.				
3. Course content/str	ucture:							
Powder fabrication. applications.	Forming proce	ss. pre-sint	ering, sinterii	ng. Chara	cterisation of sintered ma	aterials. Sintering ma	terials: prope	erties and
4. Teaching methods	:							
Lectures, independe lectures and it is follo through study and re	owed by appro	priate exam	pled contribu	iting easie	Lectures are held in com r understanding of the su other literature.	bined way. Theoretic bject content. Studer	al part is pre hts expand ki	sented in nowledge
			Knowledge e	evaluation	(maximum 100 points)			
	ation obligatio	ns	Mandatory	Points	Final ex		Mandatory	Points
Presentation			Yes		Theoretical part of the ex	am	Yes	70.00
Term paper			Yes	20.00				
					ature			
	Author			Title	•	Publishe	r	Year
	.Božić, Z.Vujo		urgija praha			MBG Beograd		1998
2, Grupa auto	а	wetalu	urgija praha			MBG Beograd		1998



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Course: Rapid Prototyping and Rapid Tooling Course id: P2407 Number of ECTS: 5 Teachers: Plančak E. Miroslav, Vilotić Ž. Dragiša Course status: Elective Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 3 0 3 0 0 Precondition courses None 1. Educational goal: Acquiring knowledge in the field of contemporary technologies of rapid prototyping and tool making, their application in new product development and in other fields. 2. Educational outcomes (acquired knowledge): Upon passing this exam students are expected to know the fundamental paradigm of contemporary product development, basic application of rapid prototyping and tool making including necessary equipment and main criteria for rapid prototyping and tool making. 3. Course content/structure: Introduction. New trends in product development. Role of physical modelling in product development. Types of models (conceptual models, design models, preserial models). RAPID PROTOTYPING AND RAPID TOOLING technologies. Types of RP and RT procedures. Procedures on the basis of model solidification. Procedures on the bases of discrete particles merging. Procedures on the bases of solid materials. Polymerisation of solid foils. Procedures of post processing. Equipment for RP and RT Modelling materials. Applicationo of RP and RT. Mechanical industry. Architecture. Medicine. Art. Other aspects of RP and RT technologies applications. (economical aspect, aspect of human environment protection, criterial for procedure selection). 4. Teaching methods: Lectures are realized with active student participation in lectures and practical classes. In lectures firstly reasons for this technology application is presented, then Modelling products and tools methods and than individual methods for rapid prototyping and rapid tooling are presented. In practical classes models of products and tools are designed and printed on rapid prototyping system in laboratory. Possible issues are discussed in consultations in separate term Knowledge evaluation (maximum 100 points) Pre-examination obligations Points Mandatory Points Final exam Mandatory Exercise attendance 5.00 Final exam - part one Yes No 30.00 Lecture attendance 5.00 40.00 Yes Final exam - part two No Term paper 20.00 Written part of the exam - tasks and theory Yes 70.00 Yes Literature Ord. Title Publisher Author Year Plančak, M. Brza izrada prototipova i alata FTN Izdavaštvo, Novi Sad 2004 1.



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

ADOVICA 6

Study Programme Accreditation

Production Engineering

Course:	:								
Course	id:	P3501			То	ol Designing for	Plastic		
Number	r of ECTS:	6							
Teache	rs:		Hodolič J. Ja	inko, Plančak	E. Mirosla	av, Vilotić Ž. Dragiša			
Course	status:	Ì	Elective						
Number	r of active teac	hing classe	s (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other clas	sses:
	3	0		3		0		0	
Precond	dition courses			None			•		
1. Educ	ational goal:								
Acquirir	ng knowledge i	n the field c	of designing a	ind tool const	ruction for	technology of plastic pro	cessing.		
2. Educ	ational outcom	nes (acquire	ed knowledge):					
designii	xam completion ng application ng and cosntr	and tool co	osntruction for	or main proce	emostratio	ong knowledge of: funda hnologies for plastic and	mental types of tool I application of conte	structures fo emporary met	r plastic, hods for
3. Cours	se content/stru	icture:							
constru Designi toosl for casting	iction of tools ng and costru r for plastic va	for palstic ction of toos cuuming of nection nac	processing. sl for injection plastic. Desi assembly o	Tool materia n pressing of gning and co of plastics. To	als. Design polymers struction pols for ru	processing . Application gning and cosntruction of . Tools for heat treatment of toosl for extrusion. De ber processing. Role an io	of pressing methods of polymers. Design signing and costruct	(direct and i ing and costr on of toosl fo	indirect). uction of r pčastic
	hing methods:				p100000	.9.			
Lecture present exercise Student	es are realized ted with chara es are coveren	interactive acteristic ex d. Acquired ced to appli	xamples for d knowledge ication of co	better unders is practically ntemporary s	standing of applied in	atory and computer pract of subject content. In au I laboratory practical clas Packages (UGS SolidEdg	iditory practical clas ses using avalilable	ses, charac laboratory eq	teristical uipment.
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	tion obligat	ions	Mandatory	Points	Final ex	am	Mandatory	Points
Exercise	e attendance			Yes	5.00	Final exam - part one		No	20.00
Graphic				Yes		Final exam - part two		No	30.00
	attendance			Yes		Written part of the exam	- tasks and theory	Yes	50.00
Term pa	aper			Yes	20.00				
						ature			
	A				Title				
Ord.		uthor					Publishe		Year
Ord. 1,	Perošević, B				o presova	nje plastomera aterial: Guideline for	Publishe Naučna knjiga, Beo		Year 1988



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



0

Study Programme Accreditation MASTER ACADEMIC STUDIES

Production Engineering

Table 5.2 Course specification Course: Contemporary Process Systems for Plastic Treatment Course id: P3503A Number of ECTS: 6 Teachers: Plančak E. Miroslav, Vilotić Ž. Dragiša Course status: Elective Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 3 0 2 0 Precondition courses None 1. Educational goal: The objective of this subject is thorough introduction to techical and technological characteristics and constructions of individual machine types and plastic treatment devices. 2. Educational outcomes (acquired knowledge): Knowledge acquired in this subject enables introduction, designing and expoloitation of operation systems for plastic treatment. 3. Course content/structure: Introduction to contemporary processing systems for plastic treatment. Structure of processing systems for plastic treatment. Exploitation characteristics of processing systems for plastic treatment in the function of plastic forming technology. Processing systems for plastic forming by extrusion, extruders constructions, snail calculations. Processing systems for injection plastic pressing, individual machine systems consturction, injection unit calculation. Additional equipment for injection plastic forming (storing granules, drying store, granule transport). Processing systems for direct and transfer plastic pressing. Processing systems for plastic forming by blowing. Processing systems for thermoforming technology. Processing systems for rubber forming. Automation of processing systems for plastic production. Application of contemporary methods in designing and consturction of processing systems elements with the computer applications, modelling and simulation methods. Designing of individual machine systems for plastics 4. Teaching methods: Lectures are realized in the form of lectures, auditory and computer practical classes, consultations and company visits. During lectures theoretical part is presented with appropriate practical examples. During auditory practical classes excercises are performed as well as appropriate projects and seminar papers. In order to expand practical knowledge, various companies are visited. During computer practical classes students are taouth to use infromation technologies in the field of the subject content and appropriate software (UGS SolidEdge and UGS NX). Apart from that regular consultations are held for the purpose of clarification of subject content and help elaboration of projects and seminar papers. Final mark is formed on the basis of class attendance, partial examination results, project and seminar paper. Knowledge evaluation (maximum 100 points) Mandatory Points Final exam Mandatory Pre-examination obligations Graphic paper 30.00 Written part of the exam - tasks and theory Yes Yes Lecture attendance 5.00 Oral part of the exam Yes Yes Literature Ord. Author Title Publisher 1 Čatić, I Biblioteka polimerstvo, Zagreb Uvod u proizvodnju polimernih tvorevina 2, Brent Strong, A Plastics, materials and processing Prentice Hall, Ohio, USA 3, Friedrich Johanaber Kunststoff Maschinen Fuhrer Carl Hanser Čatić I Injekcijsko prešanje polimera i ostalih materijala Biblioteka polimerstvo, Zagreb 4, 5, White J. Twin screw extrusion Carl Hanser publisher

Points

40.00

25.00

Year

1993

2000

1992

2003

1999



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



Study Programme Accreditation

Production Engineering

Course	:								
Course	id:	PAUP1			Αι	utomatization in	plastic		
Numbe	r of ECTS:	5							
Teache	ers:		Antić T. Aco,	Tabaković N	. Sloboda	n			
Course	status:		Elective						
Numbe	r of active teac	hing classe	s (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	sses:
	3	0		2		0		0	
Precon	dition courses	-		None		•			
1. Educ	ational goal:			-					
Acquisi	tion of new kno	owledge in t	he field of au	tomation proc	luction pro	ocesses.			
2. Educ	cational outcom	nes (acquire	d knowledge):					
moderr		controlled m	achines and	systems in p		ns for processing plastic p plastic parts. Knowledg			
3. Cour	se content/stru	icture:							
system automa machin numeri	is for automat ation. Fundamo les with numer cally controlled	ed design entals of nu ical control d machine	of products. Imerical conf systems in p tools. Metho	Fundamenta rol machines production pla ds of prograr	Is and ba and syst stics part nming. Ca	nes and systems for pro- sic concepts in automa ems. Numerical control s s.The structure of softwa ategorization. Applicatior ms and cutter location d	tion machines and s subsystems. The de re systems for autor i n different stages	systems. Eler sign of struct nated prograr	ments of ures and mming of
	hing methods:		0		1 0				
presen exercis	ted with chara	acteristic ex rd. Acquired	kamples for knowledge	better unders is practically	standing of applied in	atory and computer pract of subject content. In au laboratory practical clas jularly.	iditory practical clas	sses, charac	teristical
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	ation obligat	ions	Mandatory	Points	Final ex		Mandatory	Points
	e attendance			Yes		Written part of the exam	- tasks and theory	Yes	20.00
Graphic				Yes		Oral part of the exam		Yes	30.00
Graphic	e attendance			Yes	20.00 5.00				
Lecture	allenuarice			Yes		ature			
		uthor			Title		Publishe		
Ord					inte			er l	Year
Ord. 1,	Shivanand S		.M. Flexib	le Manufactu	ring Syste	ms	New age Internation	nal Limited	Year 2006
		.H. Benal H	Flexib		0,	ms ge-Handhabung	New age Internation Publication Fachbuchverlag Le	nal Limited	



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



Study Programme Accreditation

Production Engineering

Course: Plastics and environmental protection Course id: PIP16 Number of ECTS: 6 Teachers: Budak M. Igor, Hodolič J. Janko, Kovač P. Pavel, Vujić V. Goran, Vukelić B. Đorđe Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other classes: Other teaching types: Study research work: 3 0 3 0 0 Precondition courses None 1. Educational goal: Acquiring basic knowledge in domain of environmental protection in field of production engineering, with special accent on plastic products. 2. Educational outcomes (acquired knowledge): Competence for recognition, prevention and restoration of impacts on environment related to technologies for plastics forming. 3. Course content/structure: The role of science and technology in sustainable development. Standardization and environmental protection. Environmental Management Systems. Critical areas in the production of plastics from the environmental point of view. Environmental programs in the production of plastic. Design of plastic products with environmental and ergonomic goals. The application of eco-design principles in the design of plastic products. Evaluation of the environmental impact of plastic products and processes for their production using life cycle assessment methods. Environmental labeling of plastic materials. Disassembly of plastic products, sorting, recycling and re-use of plastic materials. Processing methods of recycled plastic.Plastic and renevable energy resources. 4. Teaching methods: Lectures are realized interactively through lectures, auditory, laboratory and computer practical classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. In auditory practical classes, characteristical exercises are covererd. Acquired knowledge is practically applied in laboratory practical classes using available laboratory equipment. Apart from lectures and practical classes, consultations are held regularly Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Final exam Mandatory Points Points Exercise attendance 5.00 Written part of the exam - tasks and theory 30.00 Yes Yes Lecture attendance 5.00 Oral part of the exam Yes 20.00 Yes Term paper 20.00 Yes 10.00 Test Yes Test 10.00 Yes Literature Ord Author Title Publisher Year Hodolic, J.; Badida, M.;, Univerzitet u Novom Sadu -Mašinstvo u inženjerstvu zaštite životne sredine 2005 1. Fakultet tehničkih nauka 2005 Majernik, M.; Šebo, D Hodolič, J.; Vukelić, Đ. Fakultet tehničkih nauka u 2 Reciklaža i reciklažne tehnologije 2011 Hadžistević M., Budak I. i dr. Novom Sadu Univerzitet u Novom Sadu -3, Kovač, P., Palkova, Z. Proizvodno mašinstvo i obnovljivi izvori energije 2011 Fakultet tehničkih nauka Budak, I., Hodolič, J., Stević Fakultet tehničkih nauka u 4 Označavanje proizvoda o zaštiti životne sredine 2009 M., Vukelić, Đ. Novom Sadu Hodolič, J., Vukelić, Đ., Fakultet tehničkih nauka u 2009 5 Budak, I., Bešić, I., Muransky Ekodizajn i održivi razvoj u mašinskom inženjerstvu Novom Sadu



UNIVERSITY OF NOVI SAD

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

Study Programme Accreditation MASTER ACADEMIC STUDIES

Production Engineering

Course:	:								
Course	id.	PP101			Inteli	gent Forming P	rocesses		
		6				0 0			
Teache		<u> </u>	Kovač P. F	avel Sekulić I	i Milenko	Gostimirović P. Marin			
Course			Elective		j. milorito,				
	r of active teac	hing classe							
	ectures:	Practical		Other teachi	na types:	Study resea	arch work:	Other cla	ISSES.
E	3)	3	ing types.	0		0	
Precond	dition courses	<u> </u>		None					
	ational goal:								
	•	in the field	of artificial ir	ntelligence and	justifiability	y of their application in fo	rming by material re	moval.	
2. Educ	ational outcom	nes (acquire	ed knowledg	je):					
Acquire remova		should enab	ole scientific	and profession	al neural r	network, experimental sys	stems and fuzzy logi	c in forming by	/ material
3. Cours	se content/stru	icture:							
anniciai			Nouron not	workey definitie		a division madel and ar	and programmes, provide the programmes of powers		amiaaian
function concept applicat fuzzifica realized theory. statistic	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res	of actual and knowl I forming p ing values, pendent s search wor ssing, nume	production ledge base, rocesses. F , fuzzy rules tudy and re k includes a	neuron networ acquiring know uzzy logistics: a gregation a search work in active following	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field of primar	s, division, model and ar t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the	chitecture of neuror gnificance and appl echanism, interprete abilities, information ues, actual realizati ical statistics and e anization and condu	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lect engineering ex ucting experim	t system rt system systems tures are periment ents and
function concept applicat fuzzifica realized theory. statistic and eng	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces	of actual and knowl I forming p ing values, ependent s search wor ssing, nume eriment.	production ledge base, rocesses. F , fuzzy rules tudy and re k includes a	neuron networ acquiring know uzzy logistics: a gregation a search work in active following	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field of primar	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga	chitecture of neuror gnificance and appl echanism, interprete abilities, information ues, actual realizati ical statistics and e anization and condu	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lect engineering ex ucting experim	t system rt system systems, tures are periment ents and
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropri Apart fr	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During pravations are h	neuron networ acquiring know uzzy logistics: s, agregation as search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar laboration	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orgo of scientific papers in the practical classes. During are performed as well as arification of subject cor ance, partial examination	chitecture of neuror gnificance and appl echanism, interpret abilities, informatior ues, actual realizati ical statistics and e anization and condu e field of probability, g lectures theoretical appropriate projected appropriate projected	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec: using experim mathematical l part is presents and semina oration of proj	t system rt systems, tures are periment ents and statistics nted with r papers.
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropri Apart fr	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation at search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar laboration	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points)	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- ntent and help elab- n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec angineering ex ucting experim mathematical I part is prese ts and semina oration of proj art.	t system rt systems, tures are periment ents and statistics nted with r papers. ects and
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropri Apart fr semina	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring knov uzzy logistics: 1 s, agregation ar search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar laboration	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points) Final es	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art.	t system rt systems, tures are periment ents and statistics nted with r papers, jects and Points
function concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical om that regul r papers. Fina Pre-examina	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation at search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field of primar laboration	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points)	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec angineering ex ucting experim mathematical I part is prese ts and semina oration of proj art.	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00
function concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina Pre-examina e attendance attendance	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar aboration l graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50 5.00	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points) Final ex	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art. Mandatory Yes	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina Exercise Lecture	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina Pre-examina e attendance attendance task	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field of primar aboration graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points) Final ex	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art. Mandatory Yes	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina Exercise Lecture Project	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina Pre-examina e attendance attendance task	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes Yes	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar aboration l graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50 5.00	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject con ance, partial examination (maximum 100 points) Final ex Written part of the exam Oral part of the exam	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art. Mandatory Yes	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina Exercise Lecture Project	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data process gineering expe hing methods: s are realized riate practical om that regul r papers. Fina Pre-examina e attendance task aper	of actual and knowl I forming p ing values, pendent s search wor ssing, nume riment. in the form examples. ar consulta al mark is f	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation of lectures During prad ations are h formed on th	neuron networ acquiring know uzzy logistics: s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes Yes	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar laboration	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject cor ance, partial examination (maximum 100 points) Final ex Written part of the exam Oral part of the exam	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate projec- tent and help elab n results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec: using experim mathematical al part is presents and semina oration of proj art. Mandatory Yes Yes	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00
functior concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina Exercise Lecture Project Term pa	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data process gineering expe hing methods: s are realized riate practical om that regul r papers. Fina Pre-examina e attendance task aper	of actual and knowl I forming p ing values, pendent s search wor sing, nume riment. in the form examples. ar consulta al mark is f ation obliga	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation ormed on the tions	neuron networ acquiring know uzzy logistics: 1 s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes Yes Yes tačka inteligent	ns, abilitie ks. Exper- vledge mo fundament nd defuzzi the field of of primar- laboration graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50 5.00 30.00 Litera Title	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject cor ance, partial examination (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature meni pristup	chitecture of neuror gnificance and apple echanism, interprete abilities, information ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretical appropriate projec- intent and help elab in results and oral p	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec: ingineering ex lucting experim mathematical al part is prese ts and semina oration of proj art. Mandatory Yes Yes	t system rt systems systems tures are periment ents and statistics nted with r papers jects and Points 30.00
function concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropr Apart fr semina Lecture Project Term pa Ord.	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina Pre-examina e attendance attendance task aper	of actual and knowl I forming p ing values, pendent s search wor sing, nume riment. in the form examples. ar consulta al mark is f ation obliga	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation or of lectures During pra- ations are h formed on the tions	neuron networ acquiring knov uzzy logistics: 1 s, agregation ar search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes Yes Yes Yes mi vestačkih n	ns, abilitie ks. Exper- vledge mo fundament nd defuzzi the field of of primar- laboration graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50 5.00 30.00 Litera Title	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject cor ance, partial examination (maximum 100 points) Final e: Written part of the exam Oral part of the exam	chitecture of neuror gnificance and apple echanism, interprete abilities, information ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate project intent and help elab- in results and oral p kam - tasks and theory Publish	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art. Mandatory Yes Yes er ad	t system rt systems, tures are periment ents and statistics nted with r papers. jects and Points 30.00 30.00
function concept applicat fuzzifica realized theory. statistic and eng 4. Teac Lecture appropri Apart fir semina Exercise Lecture Project Term pa Ord. 1,	ns, realization t (expert, data tion in materia ation of incom d through inde Study and res al data proces gineering expe hing methods: s are realized riate practical rom that regul r papers. Fina Pre-examina e attendance task aper A Stuart S., No	of actual and knowl I forming p ing values, pendent s search wor sing, nume riment. in the form examples. ar consulta al mark is f ation obliga	production ledge base, rocesses. F fuzzy rules tudy and re k includes a eric simulation or flectures During pravations are h formed on the tions	neuron networ acquiring know uzzy logistics: 1 s, agregation an search work in active following ons, possible e , computer and ctical classes e eld for the pur he basis of cla Knowledge e Mandatory Yes Yes Yes Yes tačka inteligent	ns, abilitie ks. Exper vledge mo fundament nd defuzzi the field o of primar aboration graphical exercises a pose of cl ss attenda evaluation Points 2.50 2.50 30.00 Litera Title	t systems: definition, sig dule, decision-making m tal terms and application ficaton of outcoming val of probability, mathemat y scientific sources, orga of scientific papers in the practical classes. During are performed as well as arification of subject cor ance, partial examination (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature meni pristup	chitecture of neuror gnificance and appl echanism, interpreta abilities, informatior ues, actual realizati ical statistics and e anization and condu- e field of probability, g lectures theoretica appropriate project thent and help elab- n results and oral p kam - tasks and theory Publish RAF i CET, Beogra	n network, tran lication, exper er, user) exper n flow in fuzzy on. Partly lec engineering ex ucting experim mathematical l part is prese ts and semina oration of proj art. Mandatory Yes Yes er ad	t system rt systems, tures are periment ents and statistics nted with r papers. ects and Points 30.00 30.00 Year 2011



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



Production Engineering

Study Programme Accreditation

Table 5 2	Courso	enocification
Table 5.2	Course	specification

Course:									
				Magaur	omont	and tools in pro	aiaian anaina	oring	
Course id	d:	PP103		measure	ement	and tools in pre	ecision engine	ening	
Number of	of ECTS:	6							
Teachers	S:	ŀ	Hadžistević	: J. Miodrag, Vι	ukelić B. Đ	orđe, Budak M. Igor, Sov	ilj N. Bogdan		
Course st	status:	E	Elective						
Number of	of active teac	hing classes	s (weekly)						
Lee	ctures:	Practical c	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:
	3	0		3		0		0	
Precondit	tion courses		-			•			
1. Educat	tional goal:								
	knowledge ab material pro		pretical and	l practical aspe	ects of me	asurement in the precisio	on engineering and of	f cutting tools	for high-
2. Educat	tional outcom	es (acquired	d knowledg	e):					
	o realize a hig pols for high-				pretation	of measurement results.	Independent selecti	ion and appli	ication of
3. Course	e content/stru	cture:							
Nano me features	etrology. Unc	ertainty in th cision mach	he field of hining. Too	precision engii	neering.	recision measurements. Importance, role and usa cision machining. Desigr	age of tools in precis	ion engineer	ing. Tool
4. Teachi	ing methods:		uonning.						
Lectures presented are cover	are realized d with charac rerd. Acquire	interactivel teristic exan d knowledge	y through I nples for be e is practic	etter understan	ding of su aboratory	atory and computer pract bject content. In auditory practical classes using a	practical classes, cha	aracteristical e	exercises
Lectures presented are cover	are realized d with charac rerd. Acquire	interactivel teristic exan d knowledge	y through I nples for be e is practic	etter understan ally applied in l are held regul	ding of su aboratory arly.	bject content. In auditory	practical classes, cha	aracteristical e	exercises
Lectures presented are cover lectures a	are realized d with charac rerd. Acquire	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understan ally applied in l are held regul	ding of su aboratory arly.	bject content. In auditory practical classes using a	practical classes, cha avalilable laboratory e	aracteristical e	exercises
Lectures presented are cover lectures a	are realized d with charac rerd. Acquire and practical	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understan ally applied in l are held regul Knowledge e	ding of su laboratory arly. evaluation Points	bject content. In auditory practical classes using a (maximum 100 points) Final ex	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A	exercises part from
Lectures presented are cover lectures a Exercise	are realized d with charac rerd. Acquire and practical Pre-examina	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understand ally applied in l are held regul Knowledge e Mandatory	ding of su aboratory arly. evaluation Points 5.00	bject content. In auditory practical classes using a (maximum 100 points)	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A Mandatory	exercises part from Points
Lectures presented are cover lectures a Exercise	are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understand ally applied in I are held regul Knowledge e Mandatory Yes	ding of su aboratory arly. evaluation Points 5.00	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A Mandatory Yes	exercises part from Points 30.00
Lectures presented are cover lectures a Exercise Lecture a	are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes	ding of su aboratory arly. evaluation Points 5.00 5.00	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A Mandatory Yes	exercises part from Points 30.00
Lectures presented are cover lectures a Exercise Lecture a Term pap	are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes Yes Yes	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A Mandatory Yes	exercises part from Points 30.00
Lectures presented are cover lectures a Exercise Lecture a Term pap Test	are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance	interactively teristic exan d knowledge classes, con	y through I nples for be e is practic nsultations	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes Yes Yes Yes	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam	practical classes, cha avalilable laboratory e aam	aracteristical e equipment. A Mandatory Yes	exercises part from Points 30.00
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord.	are realized d with charac rerd. Acquire and practical Pre-examina attendance per	interactively teristic exan d knowledge classes, con tion obligation	y through I nples for be e is practic nsultations	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes Yes Yes Yes	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam	practical classes, cha avalilable laboratory e aam	Mandatory Yes Yes	exercises part from Points 30.00
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord.	are realized d with charac rerd. Acquire and practical Pre-examina attendance per	interactively teristic exan d knowledge classes, col tion obligation tion obligation uthor uthor	y through I nples for be e is practic nsultations ons	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes Yes Yes Yes Yes	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam	practical classes, cha avalilable laboratory o cam - tasks and theory	Mandatory Yes Yes	Points 30.00 20.00
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord. 1, 1	A sare realized d with charac rerd. Acquire and practical Pre-examina attendance attendance per A Stević, M.; Vu Budak, I.; Ho Budak, I.; Ho I.; Vukelić, Đ.	interactively teristic exan d knowledge classes, con tion obligatio uthor Jkelić, Đ.; tin, L.i dr. dolič, J.; Bes i dr.	y through I nples for be e is practic nsultations ons ons Mere proiz šić, Kool	etter understand are held regul Knowledge et Mandatory Yes Yes Yes Yes Yes Yes Yes enje/modeliranj	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title e geometr	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam	practical classes, cha avalilable laboratory e cam - tasks and theory - tasks and theory	Mandatory Yes Yes Yes auka, Novi auka, Novi	Points 30.00 20.00 Year
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord. 1, 1 2, 1 3,	A are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance per A Stević, M.; Vi Budak, I.; Ma Budak, I.; Ma Budak, I.; Ma Stević, D.; Hodolič, J.; S I.; Antić, A. i (interactively teristic exan d knowledge classes, col tion obligatio uthor ukelić, Đ.; tin, I. i dr. dolić, J.; Bes i dr. tević, M.; Be	y through I nples for be e is practic nsultations ons ons Mere proiz šić, Kool	etter understand are held regul Knowledge et Mandatory Yes Yes Yes Yes Yes enje/modeliranj tvoda	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title e geometr mašine i	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	practical classes, cha avalilable laboratory e cam - tasks and theory Publishe Fakultet tehničkih na Sad Fakultet tehničkih na	Mandatory Yes Yes Yes auka, Novi auka, Novi	Points 30.00 20.00 Year 2009
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord. 1, 2, 3, 4	A are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance per A Stević, M.; Vu Budak, I.; Ho Budak, I.; Ho I.; Vukelić, Đ.	interactively teristic exan d knowledge classes, col tion obligatio uthor ukelić, Đ.; tin, I. i dr. dolić, J.; Bes i dr. tević, M.; Be	y through I nples for be e is practic nsultations ons ons <u>Mere</u> proiz šić, Koor ešić, Merr	etter understand are held regul Knowledge et Mandatory Yes Yes Yes Yes Yes enje/modeliranj tvoda	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter Title e geometr mašine i u industrij	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature erijskih specifikacija CAD inspekcija	practical classes, cha avalilable laboratory e cam - tasks and theory Publishe Fakultet tehničkih na Sad Fakultet tehničkih na Sad Fakultet tehničkih na	Aracteristical d equipment. A Mandatory Yes Yes Yes auka, Novi auka, Novi auka, Novi	Points 30.00 20.00 Year 2009 2009
Lectures presented are cover lectures a Exercise Lecture a Term pap Test Test Ord. 1, 2, 3, 4, 5, 5	A are realized d with charac rerd. Acquire and practical Pre-examina attendance attendance per A Stević, M.; Vu Budak, I.; Ho I.; Vukelić, Đ. Hodolič, J.; S I.; Antić, A. i c V. C. Venkate	interactively teristic exan d knowledge classes, con tion obligatio tion obligatio uthor ukelić, Đ.; tin, I. i dr. dolič, J.; Bes i dr. tević, M.; Be dr. esh, Sudin	y through I nples for be e is practic nsultations ons ons <u>Mere</u> proiz šić, Koon ešić, Merr ešić, Merr Alati	etter understand ally applied in l are held regul Knowledge e Mandatory Yes Yes Yes Yes Yes enje/modeliranj tvoda	ding of su aboratory arly. evaluation Points 5.00 5.00 20.00 10.00 10.00 Liter ritle e geometr mašine i u industrij	bject content. In auditory practical classes using a (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature erijskih specifikacija CAD inspekcija	practical classes, cha avalilable laboratory of cam - tasks and theory - tasks and theory	Aracteristical d equipment. A Mandatory Yes Yes Yes er auka, Novi auka, Novi auka, Novi sional	exercises part from Points 30.00 20.00 20.00 Year 2009 2009



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

0

Points

Study Programme Accreditation MASTER ACADEMIC STUDIES

Production Engineering

Table 5.2 Course specification Course: Joining technologies in precision engineering Course id: PPI106 Number of ECTS: 5 Teacher: Baloš S. Sebastian Course status: Elective Number of active teaching classes (weekly) Other teaching types: Lectures: Practical classes: Study research work: Other classes: 2 0 2 0 Precondition courses None 1. Educational goal: Knowledge transfer in precision engineering. 2. Educational outcomes (acquired knowledge): The excpectance is advanced sudent education in the field of joining technologies in precision engineering. 3. Course content/structure: Advanced joining technologies in precision engineering. 4. Teaching methods: Lectures, independent study and research work and consultations. Lectures are held in combined way. Theoretical part is presented in lectures and it is followed by appropriate exampled contributing easier understanding of the subject content. Students expand knowledge through study and research work, studying of scientific journals and other literature. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory

Present	tation		Yes	10.00	Theoretical part of the ex	am	Yes	70.00
Term pa	aper		Yes	20.00				
				Liter	ature			
Ord.	Author			Title	9	Publishe	r	Year
1,	R. Messler	Princip	les of weldin	g		Wiley		2004
2,	S. Pocius	Adhesi	ion science a	Ind engine	eering	Elsevier		2002



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



Study Programme Accreditation

Production Engineering

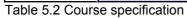
Course:									
Course i	d:	E2513				Semantic We	eb		
Number	of ECTS:	6							
Teachers	S:		Konjović D. Z	Zora, Milanov	ić N. Nikol	а			
Course s	status:		Elective						
Number	of active teac	hing classe	es (weekly)						
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:
	3	()	3		0		0	
Precondi	ition courses			None		•			
1. Educa	itional goal:								
Students	gain knowled	dge of the o	concepts, tech	niques and s	elected ex	amples of semantic web	applications.		
2. Educa	tional outcom	ies (acquir	ed knowledge):					
	uired knowled on on the We		the implemen	tation of soff	tware syst	ems which support intelli	gent selection, appro	ach and proc	essing of
3. Cours	e content/stru	cture:							
Knowled ontology Semanti	ge based pro engineering. c systems. S	tocols. Te Methodol emantic V	chnologies. O ogies for intro Veb services.	ntology tools ducing knowl Semantic W	, Ontology edge man 'eb Portal	n, Domain modelling, Con software (API). OWL. S agement systems. Methos. S. Semantic Wiki. Sema stems, information sear	PARQL. Methodolog odologies of develop ntic Multi-Agent Sys	ies. Methodo ing semantic	logies for systems.
4. Teach	ing methods:								
content of of the co assistan independ The cou explanat	of the course is ourse is cover ts as well as dent task solv rse lecturer a ions of the m	is presente ed at comp through h ring or und and assist aterial cov	d using the ne outer practice nomework ass erstanding of ant have cons	ecessary dida classes throu signments (o the solution sultations wit cture and pra	ctic tools wigh assign bligatory The evalue th the studactice class	omework assignments a while student active partio ments which students do or optional). A student ation is in the form of or: dents. During the consu ses, and in case the cor	ipation is encourage independently or wi is expected to dem al conversation with Itations the students	d. The practic th the help of onstrate the the teaching s are given a	al aspect teaching ability of assistant. additional
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	ition obliga	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
	exercises			Yes		Theoretical part of the ex	am	Yes	30.00
	er exercise att	endance		Yes	5.00				
Lecture a Project	attendance			Yes	5.00 50.00				
FIOJECI				Yes		aturo			
0rd	Λ	uthor			Litera Title		Dublich	or I	Voor
Ord.	G. Antoniou,		A Sem	nantic Web P		perative Information	Publishe The MIT Press ISB		Year
١,	Harmelen		Syster	ms S.)	. (200		0262012103		2004
	Shelley Powe	ers		cal RDF	ntic Mob	Ontology-driven	OReilly John Wiley and Sor	ne I td	2003
3,	John Davies			edge Manage		Chilology-unven	ISBN: 0470848677	is Liu,	2002



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

Study Programme Accreditation

Production Engineering



MASTER ACADEMIC STUDIES

	:				_				
Course	id:	E2519			Doma	in-Specific La	nguages		
Number	r of ECTS:	6							
Teache	rs:		Dejanović	R. Igor, Milanović I	N. Nikola				
Course	status:		Elective						
Number	r of active teac	hing classe	es (weekly)						
L	.ectures:	Practical	classes:	Other teaching	types:	Study resea	arch work:	Other cla	asses:
	3	()	3		0		0	
Precon	dition courses	-		None		-			
1. Educ	ational goal:								
	h students to d y using moderr				s intended	to be used in the spec	cific domains (Domai	in-Specific La	inguage
2. Educ	ational outcom	nes (acquire	ed knowled	ge):					
disadva most im techniq syntax underst	antages of varie nportant conce ues to create and impleme	ous tools f epts and th different co nt it using te concrete	or creating eir interdep oncrete syn the availa	domain-specific la bendencies, based htax (graphical, tex able tools, unders	anguages? I on analys xtual, base stand the	enting domain-specific ?, analyze arbitrary do sis of the domain created ad on tables, dialogs, impact of cultural ar high degree of usabilit	omain of human acti ates the abstract syr trees, etc), identify ad sociological prof	ivity and reco ntax of the DS / the most ap file of the us	ognize th SL; utiliz opropriat ser to th
3. Cour	se content/stru	icture:							
Commu concept (MOF, textual Langua of creat readabi	unication with d ts relations. Al ECore, GOPF concrete synta ge expressions ting highly usat lity of language ge; semantic co	lomain exp bstract syr PRR, MoR axes (EBN s definition ble and rea e expressio	erts; Techr ntaxes, abs P). Concre F, Xtext, E using wiza idable conc	iques of recognitio tract syntax definit te syntaxes, conc mfatic); graphical c rds; Tree-based sy rete syntax; frame dary notation and it	on of key co tion techni crete synta concrete s yntaxes; ta work of co	nguage Workbenche oncepts from the doma iques, meta-modeling ix definition, concrete yntaxes (GMF, Graph ible-based syntaxes; f	ain description. Tech . Languages ??for r syntaxes as the int ite, Spray, Eugenio) nybrid syntaxes, cultu	niques of detended neta-models terfaces with triangle automated	ecting th definitio the use layoutin
optimiza platform level, pr DSL fo	n; Template en ropagation of e	es. Transla gines. Coe changes w nain. The d	definition; s tors - code volution of vithin the sa	generators; langua language; Horizon ame meta-level bet	k. Interpre age expres ital and ver tween the	gnitive dimensions and in the language expres ters; dynamic analysis ission analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key	ssion comprehension and interpretation o ues and code genera nge propagation fron . Practical classes:	ognitive abiliti n. The seman f language ex ation for arbitr n higher to low design and c	ies on the tics of the pression ary targ wer metain reation
optimiza platform level, pr DSL fo languag 4. Teac Lecture end of t	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester,	es. Transla igines. Coe changes w hain. The c exercises; (public pres	definition; s tors - code evolution of ithin the sa livision into Consultatio sentations	generators; langua language; Horizon ame meta-level bet project teams. Do n. Design and imp of the most succes	k. Interpre age expres ital and ver tween the omain ana olementationssful team	n the language expres ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement	ssion comprehension and interpretation o ues and code genera age propagation from . Practical classes: concepts and their r	ognitive abiliti n. The seman f language ex- ation for arbitr n higher to low design and c relationships. n project team e obtained res	ies on th tics of th xpressio ary targo wer meta reation Creatin ms. At th sults. Th
optimiza platform level, pr DSL fo languag 4. Teac Lecture end of t	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester,	es. Transla igines. Coe changes w hain. The c exercises; (public pres	definition; s tors - code evolution of ithin the sa livision into Consultatio sentations	generators; langua language; Horizon ame meta-level bet project teams. Do n. Design and imp of the most succes final exam is oral. I	k. Interpre age expres ital and ver tween the omain ana olementation ssful team Final grad	in the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement lysis. Extracting key on of project assignment s are organized with t	ssion comprehension and interpretation o ues and code genera age propagation from . Practical classes: concepts and their r	ognitive abiliti n. The seman f language ex- ation for arbitr n higher to low design and c relationships. n project team e obtained res	ies on th tics of th xpressio ary targe wer meta reation of Creatin ms. At th sults. Th
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester, e of project ass Pre-examina	es. Transla gines. Coe changes w lain. The c exercises; (public pres signment is	definition; s tors - code evolution of ithin the sa livision into Consultation sentations s oral. The	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva	k. Interpre age expres ital and ver tween the omain ana blementatic ssful team Final grad aluation (m. Points	n the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement lysis. Extracting key on of project assignme s are organized with t e is based on the scor aximum 100 points) Final ex	ssion comprehension and interpretation o ues and code genera- nge propagation from . Practical classes: concepts and their r ent by working withir he discussion of the re from the final exam	ognitive abiliti n. The seman f language ex- ation for arbitr n higher to low design and c relationships. n project team e obtained res	ies on th tics of the pressio ary targover meta reation of Creatin ns. At the sults. The t defens
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense	n; Template en ropagation of d or a given dom ge abstract sy whing methods: es, Computer e the semester, e of project ass	es. Transla gines. Coe changes w lain. The c exercises; (public pres signment is	definition; s tors - code evolution of ithin the sa livision into Consultation sentations s oral. The	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva	k. Interpre age expres ital and ver tween the omain ana blementatic ssful team Final grad aluation (m. Points	n the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement lysis. Extracting key on of project assignme s are organized with t e is based on the scor aximum 100 points)	ssion comprehension and interpretation o ues and code genera- nge propagation from . Practical classes: concepts and their r ent by working withir he discussion of the re from the final exam	ognitive abiliti n. The seman f language ex- tion for arbitr n higher to low design and c relationships.	ies on th tics of the pression of the pression of creation of Creation ms. At the sults. The t defens
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester, e of project ass Pre-examina	es. Transla gines. Coe changes w lain. The c exercises; (public pres signment is	definition; s tors - code evolution of ithin the sa livision into Consultation sentations s oral. The	generators; langua language; Horizon ame meta-level bet project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F	k. Interpre age expres ital and ver tween the omain ana blementatic ssful team Final grad aluation (m. Points	n the language express ters; dynamic analysis ssion analysis techniquertical coevolution; char dependent statement alysis. Extracting key on of project assignment s are organized with t e is based on the scor aximum 100 points) Final exam	ssion comprehension and interpretation o ues and code genera- nge propagation from . Practical classes: concepts and their r ent by working withir he discussion of the re from the final exam	ognitive abiliti n. The seman f language exition for arbitr n higher to lov design and c relationships.	ies on th tics of the pression of the pression of creation of Creation ms. At the sults. The t defens
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense Project	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester, e of project ass Pre-examina defence	es. Transla gines. Coe changes w lain. The c exercises; (public pres signment is	definition; s tors - code evolution of rithin the sa livision into Consultation sentations s oral. The tions	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes	k. Interpre age expres ital and ver tween the omain ana blementatic ssful teams Final grade aluation (m. Points 50.00 Ora Literatur Title	n the language express ters; dynamic analysis ssion analysis techniquertical coevolution; char dependent statement alysis. Extracting key on of project assignment s are organized with t e is based on the scor aximum 100 points) Final exam	ssion comprehension and interpretation o ues and code generating age propagation from . Practical classes: of concepts and their r ent by working within he discussion of the re from the final exami- cam	ognitive abiliti n. The seman f language exition for arbitr n higher to low design and c relationships.	ies on th tics of the expressionary targe were metareation of Creation ms. At the sults. The t defense Points 50.0 Year
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense Project	n; Template en ropagation of e or a given dom ge abstract sy thing methods: es, Computer e the semester, e of project ass Pre-examina defence	es. Transla gines. Coe changes w aain. The d exercises; (public pres signment is ation obliga	definition; s tors - code evolution of rithin the sa livision into Consultation sentations s oral. The tions	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes main-Specific Lang	k. Interpre age expres ital and ver tween the omain ana blementatic ssful teams Final grad aluation (m. Points 50.00 Ora Literatur Title guages	n the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key on of project assignme s are organized with t e is based on the scor aximum 100 points) Final ex al part of the exam	ssion comprehension and interpretation o ues and code genera- nge propagation from . Practical classes: c concepts and their r ent by working within he discussion of the re from the final exam- cam	ognitive abiliti n. The seman f language exition for arbitr n higher to low design and c relationships.	ies on the tics of
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense Project	n; Template en ropagation of d or a given dom ge abstract sy hing methods: es, Computer e the semester, e of project ass Pre-examina defence	es. Transla gines. Coe changes w aain. The d exercises; (public pres signment is ation obliga	definition; s tors - code volution of ithin the sa livision into Consultation sentations s oral. The tions	generators; langua language; Horizon ame meta-level bet project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes main-Specific Lang nguage Implementa main-Specific and G	kk. Interpre age expres ital and ver tween the omain ana olementation ssful teams Final grade aluation (m Points 50.00 Ora Literatur Title guages ation Patter General Pr	n the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key on of project assignme s are organized with t e is based on the scor aximum 100 points) Final exam re al part of the exam re rescore your Own ogramming	ssion comprehension and interpretation o ues and code genera- age propagation from . Practical classes: concepts and their r ent by working within he discussion of the re from the final exam adm Publishe Addison-Wesley Pr The Pragmatic Boo	ognitive abiliti n. The seman f language ex- tition for arbitr n higher to loo design and c relationships. m project team e obtained res m and project Mandatory Yes er ofessional	ies on th tics of the expressionary targe were metareation of Creation ms. At the sults. The t defense Points 50.0 Year
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense Project Ord. 1,	n; Template en ropagation of e or a given dom ge abstract sy thing methods: es, Computer e the semester, e of project ass Pre-examina defence A Fowler, M. Parr, T. Kelly, S. & To	es. Transla igines. Coe changes w hain. The c exercises; (public pres- signment is ation obliga	definition; s tors - code evolution of ithin the sa livision into Consultations sentations so oral. The tions Doin Lar Doin Lar Doin Lar Doin Care Doin Care Doin Care Doin Care Doin Care Doin Care Doin Care Doin Care Care Care Care Care Care Care Care	generators; langua language; Horizon ame meta-level bet project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes main-Specific Lang nguage Implementa main-Specific and C nguages main-Specific Mode neration	kk. Interpre age expressivel and ver tween the omain ana olementation ssful teams Final graduation (m Points 50.00 Ora Literatur Title guages ation Patter General Pr eling: Enat	in the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key of on of project assignme s are organized with t e is based on the scor aximum 100 points) Final ex al part of the exam re res: Create Your Own rogramming bling Full Code	ssion comprehension and interpretation o ues and code genera- age propagation from . Practical classes: concepts and their r ent by working withir he discussion of the re from the final exam- cam Publishe Addison-Wesley Pr The Pragmatic Boo Wiley-IEEE Compu- Pr	ognitive abiliti n. The seman f language ex- tition for arbitr n higher to low design and c relationships. n project team e obtained res m and project Mandatory Yes er rofessional okshelf	ies on the tics of
optimiza platform level, pp DSL fo languag 4. Teac Lecture end of t defense Project Ord. 1, 2,	n; Template en ropagation of d or a given dom ge abstract sy thing methods: es, Computer e the semester, e of project ass Pre-examina defence A Fowler, M. Parr, T.	es. Transla igines. Coe changes w hain. The c exercises; (public pres- signment is ation obliga	definition; s tors - code evolution of rithin the sa livision into Consultation sentations s oral. The tions tions Do Lar Do Lar Do Consultation s oral. The Consultation s oral. The Consultation s	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes Mandatory F Yes main-Specific Lang nguage Implementa main-Specific Mode neration main-Driven Design art of Software	kk. Interpre age expres ital and ver tween the omain ana blementatic ssful teams Final grad- aluation (m. Points 50.00 Ora Literatur Title guages ation Patter General Pr eling: Enat n: Tackling	n the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key on of project assignme s are organized with t e is based on the scor aximum 100 points) Final ex al part of the exam re rns: Create Your Own ogramming bling Full Code i Complexity in the	ssion comprehension and interpretation or ues and code generating age propagation from . Practical classes: or concepts and their reserve ent by working within the discussion of the re from the final examination administration of the reserve administration of the reserve admi	ognitive abiliti n. The seman f language ex- tition for arbitr n higher to low design and c relationships. n project team e obtained res m and project Mandatory Yes er rofessional okshelf	ies on th tics of the pression of the pression of the reation of Creatinn ms. At the sults. The t defense Points 50.0 Year 2010 2009
optimiza platform level, pi DSL fo languag 4. Teac Lecture end of t defense Project Ord. 1, 2, 3,	n; Template en ropagation of e or a given dom ge abstract sy thing methods: es, Computer e the semester, e of project ass Pre-examina defence A Fowler, M. Parr, T. Kelly, S. & To	es. Transla gines. Coe changes w hain. The c exercises; (public pres- signment is ation obliga withor blvanen, J Stahl, T.	definition; s tors - code evolution of ithin the sa livision into Consultation sentations s oral. The tions tions -P. Do Lar Do Lar Do Lar Do Lar Do Lar Do Lar Do Lar Do Lar Do	generators; langua language; Horizon ame meta-level bef project teams. Do n. Design and imp of the most succes final exam is oral. I Knowledge eva Mandatory F Yes Mandatory F Yes main-Specific Lang nguage Implementa main-Specific Mode neration main-Driven Design art of Software	kk. Interpre age expressital and ver tween the omain ana olementatic ssful teams Final grad- aluation (m. Points 50.00 Ora Literatur Title guages ation Patter General Pr eling: Enat n: Tackling e Develop	in the language express ters; dynamic analysis ssion analysis techniqu rtical coevolution; char dependent statement ilysis. Extracting key of on of project assignme s are organized with t e is based on the scor aximum 100 points) Final ex al part of the exam re rms: Create Your Own rogramming bling Full Code	ssion comprehension and interpretation o ues and code genera- age propagation from . Practical classes: concepts and their r ent by working withir he discussion of the re from the final exam- cam Publishe Addison-Wesley Pr The Pragmatic Boo Wiley-IEEE Compu- Pr	ognitive abiliti n. The seman f language ex- tition for arbitr n higher to loo design and c relationships. m project team e obtained res m and project Mandatory Yes er ofessional okshelf iter Society	ies on the tics of the expression of the expression of the reation of Creation of Creation



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



Study Programme Accreditation

Table 5.2 Co	ourse spec	cification

	÷						.		
Course	id:	SM1	Ν	/lethods a	nd Soft	ware Tools for	Collaborativ	e Desigr	۱
Numbe	r of ECTS:	5							
Teache	ers:		Todić V. V	elimir, Milošević	P. Mijodrag	g			
Course	status:		Elective						
Numbe	r of active teac	hing classe	s (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	asses:
	3	0)	3		0		0	
Precon	dition courses	•		None		•			
1. Educ	cational goal:			2					
aim is I		quiring in th	ne field of o			on of methods and soft n the conditions of app			
2. Educ	cational outcom	nes (acquire	ed knowled	ge):					
WEB-b						tion of collaborative de systems. Introduction			
3. Cour	rse content/stru	icture:							
						ed) collaborative system centric integration. Soft		aborative env	rironmen
Mechar 4. Teac Lecture with ap of the s	nisms for syste ching methods: es are realized propriate pract subject conter	in the form ical examp nt. Apart fr	of lectures les. During om that	entric integratio s, computer pra computer pract egular consulta	n. Service-o ctical classe ical classes	ed) collaborative syster	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so	aborative env orative design etical part is p ftware tools ir	rironmen n. presente
Mechar 4. Teac Lecture with app of the s	nisms for syste ching methods: es are realized propriate pract	in the form ical examp nt. Apart fr	of lectures les. During om that	entric integratio s, computer pra computer pract egular consulta	n. Service-c ctical classe ical classes tions are h	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so	aborative env orative design etical part is p ftware tools ir	rironmen n. presente
Mechar 4. Teac Lecture with app of the s	nisms for syste ching methods: es are realized propriate pract subject conter ation of projec	in the form ical examp nt. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	entric integratio s, computer pract computer pract egular consulta Knowledge e	n. Service-c ctical classe ical classes itions are h evaluation (r	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points)	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools in ject content	rironmen n. presente n the fiel and hel
Mechar 4. Teac Lecture with app of the s elabora	nisms for syste ching methods: es are realized propriate pract subject conter ation of projec Pre-examina	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	entric integratio s, computer pract egular consulta Knowledge e Mandatory	n. Service-o ctical classes ical classes tions are h evaluation (r Points	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final e:	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools ir ject content Mandatory	rironmen n. oresente n the fiel and hel Points
Mechar 4. Teac Lecture with app of the s elabora	nisms for syste ching methods: as are realized propriate pract subject conter ation of projec Pre-examina ter exercise att	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	entric integratio s, computer pract egular consulta Knowledge e Mandatory Yes	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final es Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes	rironmen n. oresentee n the field and help Points 20.00
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture	nisms for syste ching methods: es are realized propriate pract subject conter ation of projec Pre-examina ter exercise att e attendance	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final e:	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools ir ject content Mandatory	rironmen n. oresente n the fiel and hel Points 20.0
Mechar 4. Teac Lecture with appof the s elabora Comput Lecture Project	nisms for syste ching methods: es are realized propriate pract subject conter ation of projec Pre-examina ter exercise att e attendance	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes Yes	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final es Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes	rironmen n. oresentee n the field and help Points 20.00
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project	nisms for syste ching methods: es are realized propriate pract subject conter ation of projec Pre-examina ter exercise att e attendance	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final et Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes	rironmen n. oresente n the fiel and hel Points 20.0
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att e attendance aper	in the form ical exampl it. Apart fr t and sem	on. Data-c of lectures les. During om that ro inar paper	s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes Yes	n. Service-o ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose of maximum 100 points) Final et Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes	rironmen n. oresenter n the field and help Points
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project Term pa	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att e attendance aper	in the form ical examplet. Apart fr and sem ation obligated tendance	ion. Data-c of lectures les. During om that ru- inar paper tions	entric integratio	n. Service-o ctical classes ical classes itions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekte zvoda bazir	ed) collaborative system centric integration. Soft es and consultations. D s students are taouth to held for the purpose of maximum 100 points) Final e: Coloquium exam Coloquium exam cure	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub kam	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er	rironmen n. oresenten n the fiel and hel Points 20.0 20.0
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project Term pa Ord.	nisms for syste ching methods: as are realized propriate pract subject conter ation of project Pre-examinater exercise atter aper Alilošević, M Li, W.,D., On	in the form ical examplet. Apart fr at and sem ation obligat tendance	ion. Data-c of lectures les. During om that m inar paper tions Kol. pro tehi e, Inte	entric integratio	n. Service-o ctical classes ical classes itions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literati Title n za projekti zvoda baziri ktorska dise	ed) collaborative system centric integration. Soft es and consultations. D s students are taouth to held for the purpose of maximum 100 points) Final e: Coloquium exam Coloquium exam cure	ns. Hierarchical colla ware tools for collab uuring lectures theore use methods and so f clarification of sub kam	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er	rironmen n. oresenten n the fiel and hel Points 20.0 20.0 20.0
Mechar 4. Teac Lecture with app of the selaboration Compute Lecture Project Ferm pa Ord. 1,	nisms for syste ching methods: as are realized propriate pract subject conter ation of projec Pre-examina ter exercise att a attendance aper A Milošević, M	in the form ical examplet. Apart fr it. Apart fr ation obligated ation obligated attorn obl	ion. Data-c of lectures les. During om that ro- inar paper tions tions Kol. pro- teh e, Inte Env Col	entric integratio s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes Yes Yes Yes aborativni sister cesa izrade proi nologijama - Doi egrated and Coll vironment laboration 2.0 -	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekt zvoda bazin ktorska dise aborative Pr	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose or maximum 100 points) Final e: Coloquium exam Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub kam Publishe Fakultet tehničkih r	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er	rironmen n. oresente n the fiel and hel Points 20.0 20.0 20.0 Year 2012
Mechar 4. Teac Lecture with app of the selaboration Comput Lecture Project Term pa Ord. 1, 2, 3,	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att e attendance aper A Milošević, M Li, W.,D., On A.Y.C. Coleman, D.,	in the form ical examplet. Apart fri- t. Apart fri- t and sem ation obligation tendance g, S.K., Ne g, S.K., Ne	ion. Data-c of lectures les. During om that ro inar paper tions kol pro teh e, Inte Env Col Suc	entric integratio s, computer pra computer pract egular consulta Knowledge e Mandatory Yes Yes Yes Yes Yes aborativni sister cesa izrade proi nologijama - Doi egrated and Coll vironment laboration 2.0 - ccessful Collabo	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekt zvoda bazir, ktorska dise aborative Pr Technology ration in a V	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose or maximum 100 points) Final e: Coloquium exam Coloquium exam	ns. Hierarchical colla ware tools for collab uring lectures theore use methods and so f clarification of sub kam Publish Fakultet tehničkih r World Scientific HappyAbout.info	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er	rironmen n. oresente n the fiel and hel 20.0 20.0 Year 2012 2006 2008
Mechar 4. Teac Lecture with app of the selaboration Compute Lecture Project Term pa Ord. 1, 2,	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att attendance aper A Milošević, M Li, W.,D., On A.Y.C. Coleman, D., McClellan, M	in the form ical examplet. Apart fr it. Apart fr it and sem ation obligat tendance g, S.K., Ne g, S.K., Ne , Levine, S.	ion. Data-c of lectures les. During om that re inar paper tions Kol pro tehn e, Inte Env Col Suc Col	entric integratio s, computer pract egular consultar computer pract egular consultar Knowledge e Mandatory Yes Yes Yes Yes Yes Yes aborativni sister cesa izrade proi nologijama - Doi egrated and Coll ironment laboration 2.0 - ccessful Collabo laborative Manu laborative Desig	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekt zvoda bazir: ktorska dise aborative Pr Technology ration in a V facturing	ed) collaborative system centric integration. Soft es and consultations. D students are taouth to held for the purpose or maximum 100 points) Final e: Coloquium exam Coloquium exam coloq	ns. Hierarchical colla ware tools for collab uuring lectures theore use methods and so f clarification of sub cam Publishe Fakultet tehničkih r World Scientific	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er nauka	rironmenn. presenten n the fiel and hel Points 20.0 20.0 Year 2012 2006
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project Term pa Ord. 1, 2, 3, 4, 5,	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att e attendance aper Milošević, M Li, W.,D., On A.Y.C. Coleman, D., McClellan, M Wang, L., Ne	in the form ical examplet. Apart fr it. Apart fr it and sem ation obligat tendance g, S.K., Ne g, S.K., Ne , Levine, S.	ion. Data-c of lectures les. During om that re- inar paper tions Kol- pro- tehn e, Inte Env Col Suc Col	entric integratio s, computer pract egular consulta Knowledge e Mandatory Yes Yes Yes Yes Yes Yes aborativni sister cesa izrade proi nologijama - Doi egrated and Coll //ironment laboration 2.0 - ccessful Collabo laborative Manu laborative Desig nufacturing	n. Service-c ctical classes ical classes tions are h evaluation (r Points 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekt zvoda bazir. ktorska dise aborative Pr Technology ration in a V facturing n and Planr	ed) collaborative system centric integration. Soft es and consultations. D is students are taouth to neld for the purpose of maximum 100 points) Final e: Coloquium exam Coloquium exam Coloquium exam Coloquium exam Coloquium exam cure covanje tehnoloških ran na internet ertacija roduct Development r and Best Practices for Veb 2.0 World	ns. Hierarchical colla ware tools for collab uuring lectures theore use methods and so f clarification of sub kam Publish Fakultet tehničkih r World Scientific HappyAbout.info St. Lucie Press Springer-Verlag Lo	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er nauka	rironmen n. oresente n the fiel and hel Points 20.0 20.0 20.0 Year 2012 2006 2008 2008 2003
Mechar 4. Teac Lecture with app of the s elabora Comput Lecture Project Term pa Ord. 1, 2, 3, 4,	nisms for syste ching methods: es are realized propriate pract subject conter ation of project Pre-examina ter exercise att attendance aper A Milošević, M Li, W.,D., On A.Y.C. Coleman, D., McClellan, M	em integrati in the form ical example t. Apart fr at and sem ation obligat tendance g, S.K., Ne g, S.K., Ne g, S.K., Ne k. Levine, S. l. ee, Y.C.A.:	ion. Data-c of lectures les. During om that re- inar paper tions tions kol- pro teh e, Inte Env Col Col Col Mai Env	entric integratio s, computer prace computer prace egular consulta Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Ares aborativni sistem cesa izrade proi nologijama - Dol grated and Coll vironment laboration 2.0 - ccessful Collabor laborative Desig nufacturing cyclopedia of E-0	n. Service-o ctical classes ical classes itions are h evaluation (r Points 5.00 C 5.00 C 5.00 C 30.00 20.00 Literat Title n za projekte zvoda bazin ktorska dise aborative Pr Technology ration in a V facturing in and Planr	ed) collaborative system centric integration. Soft es and consultations. D is students are taouth to neld for the purpose of maximum 100 points) Final e: Coloquium exam Coloquium exam Coloquium exam Coloquium exam Coloquium exam cure covanje tehnoloških ran na internet ertacija roduct Development r and Best Practices for Veb 2.0 World	ns. Hierarchical colla ware tools for collab uuring lectures theore use methods and so f clarification of sub cam Publishe Fakultet tehničkih r World Scientific HappyAbout.info St. Lucie Press	aborative env orative design etical part is p ftware tools in ject content Mandatory Yes Yes er nauka ndon Ltd.	rironmen n. oresente n the fiel and hel Points 20.0 20.0 20.0 Year 2012 2006 2008 2003





Study Programme Accreditation

Production Engineering

Course: Methods and software tools for computer aided design Course id: SM2 Number of ECTS: 5 Teacher: Tabaković N. Slobodan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 0 2 0 0 Precondition courses None 1. Educational goal: Acquisition of basic knowledge in the field of development of software for computer aided design, using appropriate methods of software development and programming languages. 2. Educational outcomes (acquired knowledge): Introduction to the structure of software for product design and implementation of modern programming languages in their development and adaptation to the user. 3. Course content/structure: The general structure software for designing products. Concept, types and main characteristics of CAD software. Methods of developing, building and adapting software to design products. Formats models and methods of information exchange between CAD / CAE / CAM software. Application scripting languages, procedural and object-oriented languages in the development and upgrading of CAD / CAE / CAM software. Methods of application implementation in CAD software. Stereoscopy and application of virtual reality in the software product development. 4. Teaching methods: Teaching is performed in the form of interactive lectures, computer exercises and through consultation. In lectures, theoretical characteristic of the material is illustrated with examples. Through computer exercises apply their knowledge to solve a specific task. In addition to lectures and exercises are regularly held and consultation. Exam score is based on: the presence of lectures and exercises, and successfully solved task (one task), the success of the written and the verbal part of the exam. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Mandatory Points Exercise attendance 5.00 30.00 Written part of the exam - tasks and theory Yes Yes Lecture attendance 5.00 Yes Oral part of the exam Yes 40.00 20.00 Term paper Yes Literature Ord. Author Title Publisher Year Zeljković, M., Gatalo, R., CAD, CAE, CAM i CIM sistemi-osnove-udžbenik u Fakultet tehničkih nauka 2012 1, Borojev, L pripremi Prentice Hall, Upper Saddle 2, Rehg, J., A., Kraebber, H., W. Computer-Integrated Manufacturing 2001 river



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



Study Programme Accreditation

Production Engineering

Table 5.2 Course specification Course: Software support for reverse engineering and CAQ Course id: SM3 Number of ECTS: 5 Teachers: Vukelić B. Đorđe, Budak M. Igor, Hadžistević J. Miodrag Course status: Elective Number of active teaching classes (weekly Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 0 2 0 0 Precondition courses None 1. Educational goal: Training of students to model specific applicative software in the area of reverse engineering and computer-aided quality (CAQ). 2. Educational outcomes (acquired knowledge): Ability to apply the available commercial tools for modeling of specific aplicative software in the area of reverse engineering and computer-aided qualty (CAQ). 3. Course content/structure: Software aspects of reverse engineering. Software-tools in the field of 3D digitization. Software-tools in the field of pre-processing the results of 3D digitization - for data-points filtering, data-points smoothing, reducing the data-point, segmentation/registration of data-points. Software-tools for reconstruction of surfaces - i.e. generating CAD models. Software aspects of computer aided inspection (CAI). Software-tools in the field of CAI. Software aspects of computer aided quality (CAQ). Software-tools in the field of software-CAQ. Software tools in the Six Sigma concept. 4. Teaching methods: Lectures are realized interactively through lectures and practical computer classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. Computer exercises include application of ICT in gaining knowledge in the field of study. In addition to lectures and exercises consultations are regularly held. Knowledge evaluation (maximum 100 points) Points Points Pre-examination obligations Mandatory Final exam Mandatory Exercise attendance 5.00 Written part of the exam - tasks and theory Yes 30.00 Yes Lecture attendance 5.00 20.00 Yes Oral part of the exam Yes 20.00 Term paper Yes 10.00 Test Yes Test 10.00 Yes Literature Ord. Author Title Publisher Year Reverzibilno inženjerstvo - preprocesiranje rezultata Fakultet tehničkih nauka u 2012 1 Budak, I. 3D digitalizacije (u pripremi za štampu) Novom Sadu Budak, I., Hodolič, J., Bešić, Fakultet tehničkih nauka u 2009 2, Koordinatne merne mašine i CAD inspekcija , Vukelić, Đ Novom Sadu CRC Press, Taylor and Francis 3. Wego Wang Reverse Engineering: Technology of Reinvention 2010 Group 4, Stephen J. Chapman MATLAB Programming for Engineers 2008 Mathworks 5, Jack Phan MATLAB - Visual Basic .Net for Engineers LePhan Publishing 2010





Study Programme Accreditation

Production Engineering

Course:					-		4!		
Course i	d:	P2SP			F	Professional Pra	actice		
Number	of ECTS:	3							
Teacher	s:								
Course	status:		Mandator	ry					
Number	of active teac	hing classe	s (weekly))					
Le	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	0	0)	0		0		3	
Precond	ition courses			None					
1. Educa	ational goal:								
establis		ng with job	os within t	the profession for		al knowledge on the func the student is being edu			
2. Educa	ational outcom	nes (acquire	ed knowled	dge):					
planning Getting	and developi students acqu	ment within uainted wit	the select h the activ	ted institution or e	establishm cted instit	ution or establishment, t			-
3. Cours	e content/stru	icture:							
	hment in whic					separately, in agreement ce with demands of the			
4. Teach	ning methods:								
Consulta practice		ting a profe	essional p	ractice diary in w	hich stude	ents describe activities a	nd jobs they perform	ed during pro	fessional
				Knowledge e	valuation	(maximum 100 points)			
	Pre-examina	tion obligat	tions	Mandatory	Points	Final ex	kam	Mandatory	Points
Homewo	ork			Yes	50.00	Oral part of the exam		Yes	50.00
					Litera	ature			
Ord.	A	uthor			Title		Publishe	r	Year





Study Programme Accreditation

Production Engineering

Table 5.2	Course s	specification

Course	:		Stu	dv research	n work (on theoretical I	pasis of the r	naster th	nesis
Course	id:	PP112							
Numbe	r of ECTS:	5							
Teache	rs:								
Course	status:		Mandato	iry					
Numbe	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		5		0	
Precon	dition courses	-		None					
1. Educ	ational goal:								
	plication of bas problems with				tific, technic	ca-applicationl and prot	essional knowledge	e and method	s to solve
	nis part of this ions on the po				lem, and th	e complexity of its struc	ture and on the bas	is of the analy	vsis draws
Studyin	g literature stu	dent introd	uces the r	methods are inten	ded for solv	ing similar tasks and er	ngineering practice ir	n solving them	۱.
2. Educ	ational outcom	nes (acquire	ed knowle	edge):					
review						e from various areas th er to draw conclusions		usly studied, i	n order to
study of	f different meth	nods and pa	apers rela	pand their knowled ting to similar prol	blems.				
	vay, the studer al application o				sis and ider	ntify problems within the	e given topic.		
differen	t areas of the s	students de	velops the	e ability to look at	the place a	nd role of engineers in	the chosen field, the	need	
· ·	erate with othe	•	ns and tea	am work.					
3. Cour	se content/stru	icture:							
literatur	e, graduate a	nd master i	thesis stu	idents who deal v	vith similar	of a master thesis, its topics, makes analyzes dependent study resea	s to specific task of		
4. Teac	hing methods:								
	U		ne task ar	nd submits it to th	e student T	he student is required t	o paper developme	nt within the f	ramework
of a giv	en topic which	ı is defined	task mas	ster thesis, using	literature fro	om suggested mentor.	During the making n	naster thesis,	a mentor
can give	e students add	itional guid	ance, refe h other pr	er to specific litera	ture and fur dealing with	ther guide the him. In the problems topics of the	ne research study, the master thesis	ne student cor	sults with
			earer pr		-	naximum 100 points)			
	Pre-examina	ation obligation	tions	Mandatory	Points	Final e:	kam	Mandatory	Points
Term pa		5		No		ral part of the exam		No	50.00
					Literat	ure		·	
Ord.	A	uthor			Title		Publish	ier	Year
1,	Grupa autora	1	Č	asopisi sa Kobsor	liste				2012
2,	Grupa autora	a	Č	asopisi i diplomsk	i master rac	lovi			2012



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



Production Engineering

Study Programme Accreditation

Course:					Maator Thasis		
Course id:	PDMR				Master Thesis		
Number of ECTS:	15						
Teachers:							
Course status:		Mandato	ry				
Number of active teac	hing classe	es (weekly)				
Lectures:	Practical	classes:	Other teachir	ng types:	Study research work:	Other clas	sses:
0	()	0		0	9	
Precondition courses	•	•	None				
1. Educational goal:							
to employ contempor	ary metho	dology in r	research and data	a analyses	certain scientific discipline. Simultaneously, s, as well as to adequately present results i r challenges of contemporary regional dev	in the form of s	scientific
2. Educational outcom	nes (acquir	ed knowle	dge):				
more detailed and ser It is also to enable gr	ious resea aduate Ma	rch in the s ster stude	set scientific discipent for the role of	pline, that i an analyst	tific paper whose results should provide cert is, regional policies and development. t and evaluator of regional development str and scientific institutions.		
3. Course content/stru	icture:						
Master thesis present regional cooperation a the form containing th Literature. Topics and contents Development, could i -Sustainable regional -Globalization and reg -Marketing and comm -Inter-regional projects -economics of regional -urban planning and c -GIS application -Human resources ma -Tourism as regional d -Perspectives in regio	s a student and develo ne followin of final-Ma nclude mo developme jional coop unication s s and proje al developme ity manage anagement developme nal develop	pment. The g chapters ster paper re scientifi eration trategies for ct manage nent ement ement	e student has the s: Introduction, Th s that would be e ic fields and disci or regional develo ement	obligation, neoretical p elaborated plines:	troduced to research methodology in the fie , on performing field experimental research, part, Experimental part, Results and discus and defended within the study programme	to write a final sion, Conclusi	paper in ons and
4. Teaching methods:							
primary sources), follo	owed by re om work (ot	search an otained da	d field work (field ta analysis and de	research, efinition, wr	ation phase (title definition, content, methodata acquisition and database formation, et riting Master thesis text body and final tutoria ointed committee.	c. and the like)	and the
			Knowledge e	valuation (maximum 100 points)		
Pre-examina	ation obliga	tions	Mandatory	Points	Final exam	Mandatory	Points





Study Programme Accreditation

Table 5.2 Course specification

MASTER ACADEMIC STUDIES

Production Engineering

Course:	_				
Course id:	1907		Automated Asse	mbly Systems for High Ac	curacy
Number of ECTS:	5				
Teachers:			ć M. Milovan, Ostojić M. Gorda vić M. Rado, Vukelić B. Đorđe	ana, Jovanović M. Vukica, Budak M. Igor,	Herakovič S. Niko,
Course status:		Elective			
Number of active tead	hing classe	es (weekly	')		_
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:
2	()	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 e	valuation	(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



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

A ROAD

Study Programme Accreditation

Production Engineering

Course Modelling and Simulation in Processing Course id: P1505 Number of ECTS: 6 Teachers: Gostimirović P. Marin, Kovač P. Pavel, Sekulić Lj. Milenko Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Other classes: Study research work: 3 0 2 0 0 Precondition courses None 1. Educational goal: Acquisition of new knowledge in the field of modelling and simulations of forming and production processes. 2. Educational outcomes (acquired knowledge): Acquired knowledge should enable students to develop practical models which are valid for the concerned field with limitation conditions, in order to characterize production process state with the utilization of contemporary programme systems. 3. Course content/structure: Fundamentals, significance and possibilities of simulation and modelling processes application. Fundamental elements of modelling and simulation. Process of model creation. Model description. Model classification. Model verification. Models state concept. Establishing connections between incoming, outgoing and disturbed process values. Development, type and setting of forming model. Simplification of real process and modeled object. Model description through state and limitation functions. Analytical, numerical and computer modelling methods and forming simulations. Practical examples of modelling and simulations. 4. Teaching methods: Lectures are realized interactively through lectures and computer practical classes. In lectures theoretical part is presented with characteristic examples for better understanding of subject content. In computer practical classes, through practical examples, deepening of lectured theory is realized. Apart from lectures and practical classes, consultations are held regularly. Final grade is formed on basis of lectures and practically classes presence, tests and oral exam. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Mandatory Points Final exam Computer exercise attendance 2.50 20.00 Written part of the exam - tasks and theory Yes Yes Lecture attendance 2.50 45.00 Oral part of the exam Yes Yes 30.00 Term paper Yes Literature Ord Author Title Publisher Year Modeliranje procesa obrade-faktorni planovi Fakultet tehničkih nauka, Novi Kovač P 2006 1. eksperimenta Sad Fakultet tehničkih nauka, Novi 2 Gostimirović M., Milikić D. Upravljanje toplotnim pojavama pri obradi brušenjem 2002 Sad Obrada metala rezanjem - teorija, modeliranje i 3, Globočki-Lakić G Mašinski fakultet, Banja Luka 2010 simulacija Fakultet tehničkih nauka, Novi 4 Kovač P Metode planiranja i obrade eksperimenta 2011 Sad Advanced Machining Processes of Metallic Materials 5 Grzesik W. Elsevier Science Ltd 2008 Theory, Modelling and Applications Faculty of Mechanical 2005 6 Cus F. Modeling and optimization of metal cutting Engineering





Study Programme Accreditation

Production Engineering

Course: Internet Technologies in Production Engineering Course id: P1506 Number of ECTS: 5 Teachers: Milošević P. Mijodrag, Todić V. Velimir Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other classes: Other teaching types: Study research work: 3 0 2 0 0 Precondition courses None 1. Educational goal: Introduction to modern approaches in manufacturing engineering by application of Internet technologies. Knowledge in the field of e-Bussines, as well as the basic principles of the e-Manufacturing and collaborative engineering methodology based on web technologies. 2. Educational outcomes (acquired knowledge): Acquired knowledge enables utilization of internet technologies, as well as many technics and methodologies in development and control of technological and production structures in virtual collaborative environment. 3. Course content/structure: Information systems in production engineering. Introduction to Internet technologies. Electronic business (e-Business). Electronic commerce (e-Commerce). Electronic signature (e-Signature). Standards for data exchange in Internet-based manufacturing process. Collaborative design in the Internet environment. Web-based collaborative design systems for process planning. Concept of e-Manufacturing 4. Teaching methods: Lectures are realized in the form of lectures, computer practical classes and consultations. During lectures theoretical part is presented with appropriate practical examples. During computer practical classes students are taouth to use infromation and internet technologies in the field of the subject content. Apart from that regular consultations are held for the purpose of clarification of subject content and help elaboration of project and seminar paper. Knowledge evaluation (maximum 100 points) Points Mandatory Pre-examination obligations Final exam Mandatory Points Exercise attendance 5.00 Coloquium exam Yes 20.00 Yes Lecture attendance 5.00 Coloquium exam Yes 20.00 Yes Project 30.00 Yes 20.00 Term paper Yes Literature Ord Author Title Publisher Year Die Realität im Virtuellen - Systemsimulation in Großmann, K. Techiscen Universität, Dresden 1998 1 techniscen Anwendungen Fakultet tehničkih nauka. Novi 2 Todić, V. Projektovanje tehnoloških procesa 2004 Sad Integrated and Collaborative Product Development 3. 2006 W.D. Li, S.K. Ong, A.Y.C Nee World Scientific Environment (Technologies and Implementations WIT Press / Computational 4, Cheng, K. E-Manufacturing: Fundamentals and Applications 2005 Mechanics Kolaborativni sistem za projektovanje tehnoloških Fakultet tehničkih nauka, Novi 2012 5 Milošević. M. procesa izrade proizvoda baziran na internet Sad tehnologijama - Doktorska disertacija



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



Study Programme Accreditation

Production Engineering

Course:	:								
Course	id:	P315			Intel	ligent Process	Planning		
Number	r of ECTS:	5							
Teache	rs:		Milošević P	. Mijodrag, Too	lić V. Velin	nir			
Course	status:		Elective						
Number	r 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	dition courses			None					
1. Educ	ational goal:								
Student	s learn to desi	gn intellige	nt manufacti	uring process p	lanning of	product applying advanc	ed methods and tec	hniques.	
2. Educ	ational outcom	nes (acquire	ed knowledg	e):					
The kno	owledge acquir	ed allow th	e use of mo	dern methods a	and techni	ques in development of i	ntelligent and integra	ated CAPP sy	stems.
3. Cours	se content/stru	icture:							
genetic for man CAx sys forming manufa 4. Teach Teachir is prese inforam in the f	algorithms in o nufacturing pro stems. Moderr of manufactu icturing. hing methods: ng is performed ented with app tion technolog form of the te	defining an cess planr n intelligent uring syste d in the forn propriate p y through p st. In orde	d optimizatio ing. Applica t system. Ap ms. Intellige m of lectures ractical exa practical exa er to extend	on the selection tion of STEP a oplication of and ent process pla s and compute mples. Within mples, as well I the practical	n of eleme and STEP- ificial intel anning as r exercices computer as the dev knowledg	ng CAPP systems. Appli nts process planning. Ap NC standard in the integ ligence in modeling and a part of virtual manufa s, consultations and com pratical classes perform velopment of the projects ge made visits to the re	plication of agent an gration of CAD/CAPI simulation process acturing, collaboration pany visits. Within the ned training student and seminary works espective companie	d multi-agent P/CAM/CNC planning and ve engineerin ecoretical lect s in the appl s. Colloquia a es. Besides,	t methods and other structure ng and e- ures, part lication of are written regularly
consult	ations are he	ld in orde	r to move c		-	and making appropria	te projects and ser	minary works	S.
	Des sus mins	tion obliga				(maximum 100 points)		Mandatan	Deinte
Exercise	Pre-examina	liton opliga	lions	Mandatory Yes	Points 5.00	Final exam	kam	Mandatory Yes	Points 20.00
	attendance			Yes		Coloquium exam		Yes	20.00
Project				Yes	30.00				<u>.</u>
Term pa	aper			Yes	20.00				
					Litera	ature			
Ord.		uthor			Title		Publish	er	Year
1,	Todić, V			ektovanje tehno			FTN, Novi Sad MA: Butterworth-Hi	onomonn	2004
2,	Scallan, P.				-	n/Manufacture Interface	Boston	CHEIHdilli,	2003
3,	Veljović, A			nenti ekspert si oloških procesa		projektovanje	Mašinski fakultet, E	-	1990
4,	Poliščuk, E.J		Eksp	pertni sistemi			Informatička literatu Podgorica	ura,	2004
5,	Miljković, Z.,	Aleksendri		ačke neuronsk			Mašinski fakultet, E	0	2009
6,	Xu, X.			grating Advance ufacturing, and		ter-Aided Design, I Control	Information Science New York	e Reference,	2009
7,	Gu, P.		Intel	ligent manufac	turing proc	ess	Chapman & Hall, L	ondon	1995



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



Study Programme Accreditation

Production Engineering

Course:	:								
Course	id:	P4410A				Production Des	sign		
Number	r of ECTS:	6							
Teache	rs:		Gostimirovi	ć P. Marin, Sel	kulić Lj. Mi	lenko			
Course	status:		Elective		-				
Number	r of active tead	hing classe	es (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	3	()	2		0		0	
Precond	dition courses		-	None		•			
1. Educ	ational goal:								
Acquirir	ng fundamenta	l knowledg	e in the field	of production a	and indust	rial design.			
2. Educ	ational outcom	nes (acquire	ed knowledg	e):					
	d knowledge s esthetic require		ble designer	s and construc	tors to su	ccessfully design produc	ts which apart from the	ne functionali	ity should
3. Cours	se content/stru	icture:							
design. ergonor design	Expressive m mics, aesthetic cycle. Vision i	eans in ind cs and tech n Product	ustrial design nologicality Design. Cre	n: the type, qua of industrial p ating a design	ality and c roducts .[goal. Cre	nfluencing on the design olor of the material and p Design of a new product- eating product ideas and esting. Communicating th	processing operations the product innovation concepts. Design sl	. Design, fun on process. T ketching.Dec	ctionality, The basic
	hing methods:	•				<u> </u>			
Lecture appropr subject	s are realized	examples. from that	During comp	outer practical	classes st	practical classes. During udents are taught to use mark is formed on the ba	information technolo	gies in the fi	eld of the
				Knowledge e	evaluation	(maximum 100 points)			
	Pre-examina	ation obliga	tions	Mandatory	Points	Final ex	xam	Mandatory	Points
Exercise	e attendance			Yes	5.00	Oral part of the exam		Yes	50.00
Graphic				Yes	20.00				
	attendance			Yes	5.00				
Test Test				Yes	10.00 10.00				
1030				res		ature			
Ord.	Δ	uthor			Title		Publishe	er l	Year
1,	, Fruht M.		Dizai	n u proizvodnj			Naučna knjiga, Beo		1987
2,	Kuzmanović	S.		truisanje, oblik		izajn II deo	Fakultet tehničkih n Sad		2001
3,	Kuzmanović	S.	Indus	strijski dizajn			Fakultet tehničkih n Sad	auka, Novi	2008
4,	Wallace K., 0	Clarkson J.	An in	troduction to t	he design	process	University of Cambi		1999
5,	Olofsson E.,	Siolon K	Dosi	gn Sketching			Keeos Design Book Sweden	s AB,	2005





Study Programme Accreditation

Production Engineering

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



State State

Study Programme Accreditation

Production Engineering

Course: Machines and dies for powder forming Course id: MIA11 Number of ECTS: 5 Teacher: Plančak E. Miroslav Course status: Flective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 0 2 0 0 Precondition courses None 1. Educational goal: To gain the theoretical and practical knowledge which is necessary to project and design technology and dies for powder forming. 2. Educational outcomes (acquired knowledge): Students can apply the gained theoretical and practical knowledge to design technology, dies and to select machine tools for powder formina 3. Course content/structure: Analysis of powder compression, process parameters and their optimization. Modeling and simulation (MKE) of powder compression as a function of die design and machine selection. Dies for powder compression, floating die, elements for motion of die components, powder dispenser. Extrusion dies for powder forming, calculation and design. Injection pressing dies for powder compression. Rolling dies for powder forming. Dies for cold and hot isostatic forming of powder. Dires for hot and cold calibration of powder parts. Forging dies for powder forming Machine tools and other needed equipment for powder forming and their classification. Presses for powder forming (mechanical, hydroulic, hyfromechanical). Adapters for load transfer to mobile die elements, powder dispensers, machine control system. Rolling machines, injection pressing machines, presses for osostatic pressing, presses for calibration of sintered parts, presses for forging of powder parts. Automatic lines for forming of powder parts , ancillary equipment, powder mixing machine, transport system for green parts. Methods for powder forming, hot and cold forming, continuous methods, cyclic methods, isostatic compression. Accuracy of powder parts, net shape technology. Afterwards forming of sintered parts. Methods of hot and cold calibration. Theory of the metal powder forming. Density and porosity of powder parts, research methods. Deformations and stresses in metal powder compression. Radial and axial stresses. Friction, lubrication. Determination of loads and stresses. Limit possibilities of powder pressing, destruction. Analysis of powder forming and its optimisation. Dies and machines and ancillary equipment. 4. Teaching methods: Lectures are realized with active student participation in lectures and practical classes. Possible issues are discussed in consultations in separate term. Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Mandatory Points Final exam Exercise attendance 5.00 Written part of the exam - tasks and theory Yes 70.00 Yes Graphic paper 20.00 Yes Lecture attendance 5 00 Yes Literature Ord Author Title Publisher Year Computational Plasticity In Powder Forming Khoei A. 2005 1. Elsevier processe Cambridge International 2, Upadhyaya G. S. Powder metallurgy technology 2002 Science Publishina Sintering - Densification, Grain Growth, and 3, Suk-Joong L.Kang Elsevier 2005 Microstructure



A REAL PROPERTY AND A REAL

Study Programme Accreditation

Production Engineering

Table	5.2	Course	specification

	:								
Course	id:	- PMISP1	Mc	odelling a	and Si	mulation of Meta	al Forming Pr	rocesses	S
Number	r of ECTS:	5							
Teache	ers:		Plančak E. N	/liroslav, Viloti	ć Ž. Dragi	ša			
Course	status:		Elective						
Number	r of active teac	hing classe	es (weekly)						
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:
	3	()	3		0		0	
Precon	dition courses		<u>.</u>	None		•			
1. Educ	cational goal:								
Aim of t	the course is m	nastering th	e content in t	he field of mo	delling and	d simulation of processes	in metal forming tech	nnologies.	
2. Educ	cational outcom	nes (acquire	ed knowledge):					
The kno as the i	owledge gained interpretation o	d from this f the result	course allows s in order to ir	the analysis the tee	of metal fo chnology.	prming processes by the r	methods of modeling	and simulatio	on as well
3. Cour	se content/stru	icture:							
in defor simulati metal fo	rmation. Mode ion of sheet me orming and mo	ern softwa etal using a odels calibra	re packages a computers s ation. Experin	FEM. Model ystems. Analy nental method	ing and s /sis of fact Is to verify	ing processes. The Finite imulation of bulk metal tors influencing on the co v the results of numerical	forming using a con rrectness of the mode	nputer. Mode eling and sim	eling and ulation of
Classes importa simulati simulati stress,	ance of physica tion of metal fo tion of metal fo strain and pro	th the actival al and num prming procord	ve participation nerical modelin cess and sum cesses with a	on of student ng of metal fo nmarizes moo an analysis of	s in lectu orming pro lern softw f stress, s	parameters in metal form res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process parament in the laboratory. Elimina	ning technology. The lectures the authorses the theory of nuises specifically domineters. The simulation	or first discu merical mode e some mode on results (co	isses the eling and eling and omponent
Classes importa simulati simulati	s are held wit ance of physication of metal fo tion of metal fo strain and pro	th the actival al and num prming procord	ve participation nerical modelin cess and sum cesses with a	on of student ng of metal fo nmarizes moc an analysis ot erified experi	is in lectu orming pro lern softw f stress, s mentally in	res and exercises. In th ocesses. After that, expo are packages. On exerc train and process param	ning technology. The lectures the authorses the theory of nuises specifically domineters. The simulation	or first discu merical mode e some mode on results (co	isses the eling and eling and omponent
Classes importa simulati simulati stress,	s are held wit ance of physication of metal fo tion of metal fo strain and pro	h the activ al and num prming proo prming proo cess parar	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo nmarizes moc an analysis ot erified experi	is in lectu orming pro lern softw f stress, s mentally in	res and exercises. In the presses. After that, expo are packages. On exerce train and process parament the laboratory. Elimina	ning technology. The lectures the authorses the theory of nuises specifically don- neters. The simulation te possible ambiguition	or first discu merical mode e some mode on results (co	isses the eling and eling and omponent
Classes importa simulati stress, specific	s are held wit ance of physic: tion of metal for tion of metal for strain and pro times.	h the activ al and num prming proo prming proo cess parar	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fa imarizes moo an analysis of erified experi Knowledge e	ts in lectu orming pro- lern softw f stress, s mentally in evaluation Points	res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process param n the laboratory. Elimina (maximum 100 points)	ning technology. The lectures the authorses the theory of nuises specifically don- neters. The simulation te possible ambiguition	or first discu merical mod e some mod n results (co ies in consult	isses the eling and eling and imponent tations at
Classes importa simulati stress, specific	s are held wit ance of physic tion of metal for strain and pro c times. Pre-examina re attendance	h the activ al and num prming proo prming proo cess parar	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo marizes moc an analysis of erified experi Knowledge e Mandatory	ts in lectu orming pro- lern softw f stress, s mentally in evaluation Points 5.00	res and exercises. In the pocesses. After that, expo- are packages. On exerci- train and process param n the laboratory. Elimina (maximum 100 points) Final ex-	ning technology. The lectures the authorses the theory of nuises specifically don- neters. The simulation te possible ambiguition	or first discu merical mode some mode n results (co ies in consult Mandatory	eling and eling and omponent tations at Points
Classes importa simulati stress, specific Exercise Graphic Graphic	s are held wit ance of physic: tion of metal for strain and pro c times. Pre-examina te attendance c paper c paper	h the activ al and num prming proo prming proo cess parar	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo marizes moc an analysis of erified experin Knowledge e Mandatory Yes	ts in lectu prming pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00	res and exercises. In the pocesses. After that, expo- are packages. On exerce train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one	ning technology. The lectures the authorses the theory of nuises specifically domineters. The simulation te possible ambiguition te mathematical series and the series and	or first discu merical mode some mode n results (co ies in consult Mandatory No	eling and eling and omponent tations at Points 30.00
Classes importa simulati stress, specific Exercise Graphic Graphic	s are held wit ance of physic: tion of metal for strain and pro c times. Pre-examina- te attendance c paper	h the activ al and num prming proo prming proo cess parar	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo marizes moc an analysis of erified experi Knowledge e Mandatory Yes Yes	ts in lectu orming pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00 5.00	res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam	ning technology. The lectures the authorses the theory of nuises specifically domineters. The simulation te possible ambiguition te mathematical series and the series and	or first discu merical mode some mode n results (co ies in consult Mandatory No No	Points 30.00 40.00
Classes importa simulati stress, specific Exercise Graphic Lecture	s are held wit ance of physic: tion of metal for strain and pro- c times. Pre-examina- te attendance c paper c paper e attendance	th the activ al and num prining pro- proming pro- process parar ation obliga	ve participation nerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo marizes moc an analysis of erified experi Knowledge e Mandatory Yes Yes Yes Yes	is in lectu prming pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00 5.00 Liter	res and exercises. In the becesses. After that, expo- are packages. On exerce train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam ature	ning technology. The lectures the auth- poses the theory of nu- ises specifically dom- neters. The simulation te possible ambiguition kam - tasks and theory	or first discu merical mode some mode n results (co ies in consult Mandatory No No Yes	Points 30.00 70.00
Classes importa simulati stress, specific Exercise Graphic Graphic	s are held wit ance of physic: tion of metal for strain and pro- c times. Pre-examina- te attendance c paper c paper e attendance	h the activ al and num prming proo prming proo cess parar	ve participati lerical modeli cess and sum cesses with a meters) are v	on of student ng of metal fo marizes moc an analysis of erified experin Knowledge e Mandatory Yes Yes Yes Yes	is in lectu prining pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00 5.00 Litera Title	res and exercises. In the bocesses. After that, expo- are packages. On exerce train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam ature	ning technology. ne lectures the auth- poses the theory of nu- ises specifically dom- neters. The simulation te possible ambiguition kam - tasks and theory Publishe	or first discu merical mode some mode n results (co ies in consult Mandatory No No Yes	Points 30.00 40.00
Classes importa simulati stress, specific Exercise Graphic Lecture	s are held wit ance of physic: tion of metal for strain and pro- c times. Pre-examina- te attendance c paper c paper e attendance	th the activ al and num prining pro- proming pro- process parar ation obliga	ve participati ierical modeli cess and sum cesses with a meters) are v tions	on of student ng of metal for marizes moc an analysis of erified experi Knowledge e Mandatory Yes Yes Yes Yes Yes	ts in lectu orming pro- lern softw f stress, s mentally in evaluation Points 5.00 10.00 10.00 5.00 Litera Title ciono stan	res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam ature	ning technology. he lectures the authors bases the theory of nu- ises specifically dom- heters. The simulation te possible ambiguition kam - tasks and theory Publisher Fakultet tehničkih no Sad	or first discu merical mode some mode n results (co ies in consult Mandatory No No Yes er auka, Novi	Points 30.00 70.00
Classes importa simulati stress, specific Exercise Graphic Lecture Ord.	s are held wit ance of physic: tion of metal fo tion of metal fo strain and pro- c times. Pre-examina e attendance c paper c paper e attendance Plančak, M. Vilotić, D.	th the activ al and num prining pro- proming pro- process parar ation obliga	ve participati ierical modeli cess and sum cesses with a meters) are v tions tions	on of student ng of metal for imarizes moc an analysis of erified experi Mandatory Yes Yes Yes Yes Yes ansko deforma vanja šanje čeličnih	ts in lectu prining pro- lern softw f stress, s mentally in evaluation Points 5.00 10.00 10.00 5.00 Litera Title ciono stan materijala zapremins	res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam ature je u procesima u različitim obradnim skog deformisanja	ning technology. The lectures the auth- poses the theory of nu- ises specifically dom- neters. The simulation te possible ambiguition kam - tasks and theory Publisher Fakultet tehničkih n	or first discu merical mode some mode n results (co ies in consult Mandatory No No Yes er auka, Novi	Points 30.00 40.00 70.00 Year
Classes importa simulati stress, specific Exerciss Graphic Graphic Lecture Ord. 1,	s are held wit ance of physic: tion of metal for strain and pro- c times. Pre-examina te attendance c paper c paper e attendance A Plančak, M.	th the activ al and num prining pro- proming pro- process parar ation obliga	ve participati lerical modeli cess and sun cesses with a meters) are v tions tions	on of student ng of metal fo marizes moc an analysis of erified experi Knowledge e Mandatory Yes Yes Yes Yes Yes Sanje čeličnih nima hladnog liranje i simula	is in lectu orming pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00 5.00 Litera Ciono stan materijala zapremins acija u obr	res and exercises. In the becesses. After that, expo- are packages. On exerci- train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part one Final exam - part two Written part of the exam ature je u procesima u različitim obradnim skog deformisanja adi deformisanjem	ning technology. he lectures the authors bases the theory of nu- ises specifically dom- heters. The simulation te possible ambiguition kam - tasks and theory Publisher Fakultet tehničkih no- Sad Fakultet tehničkih no- Sad Mašinski fakultet, Komponent Kakultet, Kompone	or first discu merical mode some mode n results (co ies in consult Mandatory No No Yes er auka, Novi auka, Novi ragujevac	Points 30.00 40.00 70.00 Year 1984
Classee importa simulati stress, specific Exercise Graphic Lecture Ord. 1, 2,	s are held wit ance of physic: tion of metal fo tion of metal fo strain and pro- c times. Pre-examina e attendance c paper c paper e attendance Plančak, M. Vilotić, D.	th the activ al and num prining pro- proming pro- process parar ation obliga	ve participationerical modeli cess and sum cesses with a meters) are v tions tions Napoon istiski Ponaš sistem Mode Comp Solids	on of student ng of metal fo marizes moc an analysis of erified experi Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Yes insko deforma vanja čanja čeličnih nima hladnog liranje i simula outational Proc	ts in lectu orming pro- lern softw f stress, s mentally in Points 5.00 10.00 10.00 5.00 Litera Ciono stan materijala zapremins acija u obr cedures in es	res and exercises. In the bocesses. After that, expo- are packages. On exerci- train and process param in the laboratory. Elimina (maximum 100 points) Final exam - part one Final exam - part two Written part of the exam ature je u procesima u različitim obradnim skog deformisanja	ning technology. he lectures the authors bases the theory of nu- ises specifically dom- heters. The simulation te possible ambiguition kam - tasks and theory Publisher Fakultet tehničkih no Sad	or first discu merical mode e some mode n results (co ies in consult Mandatory No No Yes er auka, Novi auka, Novi ragujevac delberg New	Points 30.00 40.00 70.00 Year 1984 1987



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Table 5.2 Course specification	
--------------------------------	--

Course	id:	PP2I11	Med	chanical	Engin	eering in Medici	ne and Bioer	ngineerir	ng
Number	of ECTS:	6							
Teachei	rs:	ł	Kakaš I. Dar	nir, Škorić N.	Branko				
Course	status:	1	Elective						
Number	of active teac	hing classes	s (weekly)						
L	ectures:	Practical of	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	asses:
	3	0		3		0		0	
Precond	dition courses			None			-		
1. Educ	ational goal:			-					
The ma applicat		of the course	e is to famil	iarize studer	nts with r	naterials and processing	g techniques used ir	n medicine a	nd in bio
2. Educ	ational outcom	nes (acquired	d knowledge):					
Student applicat		sfully master	the course	will be able to	select op	timal materials and techno	ology for products use	ed in medicin	e and bio
3. Cours	se content/stru	icture:							
Introduc	tion to bioena								
biomate 4. Teacl Forms o	erials. Design a hing methods: of teaching act	and manufact	cturing of me	edical instrum earch, practic	ents. al work or	degradation i biological e	paper, and consultati	ions. Using n	ecessary
biomate 4. Teacl Forms of teaching	erials. Design a hing methods: of teaching act	and manufact tivities are le iring the lect	cturing of me ectures, rese ures, subjec	edical instrum earch, practic t matter is pre	ents. al work or		paper, and consultati	ions. Using n	ecessary
4. Teach Forms of teaching	erials. Design a hing methods: of teaching act g resources du	and manufact tivities are le iring the lect	cturing of me ectures, rese ures, subjec	edical instrum earch, practic t matter is pre ned.	ents. al work or esented to	n the computer, seminar	paper, and consultati	ions. Using n	ecessary
4. Teach Forms of teaching	erials. Design a hing methods: of teaching act g resources du	and manufact tivities are le rring the lect s of which th	cturing of me ectures, rese ures, subjec ey are assig	edical instrum earch, practic t matter is pre ned.	ents. al work or esented to	n the computer, seminar students by stimulating th	paper, and consultati neir active participatio	ions. Using n	ecessary
biomate 4. Teach Forms of teaching to expla	erials. Design a hing methods: of teaching act g resources du in the contents	and manufact tivities are learing the lect s of which th	cturing of me ectures, rese ures, subjec ey are assig	edical instrum earch, practic t matter is pre ned. Knowledge e	al work or esented to evaluation Points	n the computer, seminar j students by stimulating th (maximum 100 points)	paper, and consultati neir active participatio	ons. Using n n as they are	ecessary e required
4. Teach Forms of teaching to expla	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance	and manufact tivities are learing the lect s of which th	cturing of me ectures, rese ures, subjec ey are assig	edical instrum earch, practic t matter is pre ned. Knowledge e Mandatory	al work or esented to evaluation Points 5.00 5.00	n the computer, seminar students by stimulating th (maximum 100 points) Final ex	paper, and consultati neir active participatio	ons. Using n on as they are Mandatory	ecessary e required Points
biomate 4. Teacl Forms of teaching to expla	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance	and manufact tivities are le uring the lect s of which th ation obligation	cturing of me ectures, rese ures, subjec ey are assig	edical instrum earch, practic t matter is pre ned. Knowledge e Mandatory Yes	ents. al work or esented to evaluation Points 5.00	n the computer, seminar students by stimulating th (maximum 100 points) Final ex Coloquium exam	paper, and consultati neir active participatio	ons. Using n on as they are Mandatory No	ecessary e required Points 30.00
4. Teach Forms of teaching to expla	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance	and manufact tivities are le uring the lect s of which th ation obligation	cturing of me ectures, rese ures, subjec ey are assig	edical instrum earch, practica t matter is pre- ned. Knowledge e Mandatory Yes Yes	al work or esented to evaluation Points 5.00 30.00	n the computer, seminar students by stimulating th (maximum 100 points) Final ex Coloquium exam	paper, and consultati neir active participatio	ons. Using n on as they are Mandatory No	ecessary e required Points 30.00
4. Teach Forms of teaching to expla	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance aper	and manufact tivities are learing the lect s of which th ation obligation ttendance	cturing of me ectures, rese ures, subjec ey are assig ons	edical instrum earch, practica t matter is pre- ned. Knowledge e Mandatory Yes Yes	al work or esented to evaluation Points 5.00 30.00	n the computer, seminar students by stimulating th (maximum 100 points) Final ex Coloquium exam Oral part of the exam ature	paper, and consultati neir active participatio	ons. Using n on as they are Mandatory No Yes	ecessary e required Points 30.00
4. Teacl Forms of teaching to expla Laborate Lecture Term pa	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance aper	and manufact tivities are learing the lect s of which th ation obligation ttendance suthor tner, Allan S ederick J.	cturing of me ectures, rese ures, subjec ey are assig ons	edical instrum earch, practica t matter is pre- ned. Knowledge e Mandatory Yes Yes Yes	al work or esented to evaluation Points 5.00 30.00 Liter Title	n the computer, seminar students by stimulating th (maximum 100 points) Final ex Coloquium exam Oral part of the exam ature	paper, and consultati neir active participatio	ons. Using n on as they are Mandatory No Yes	Points 30.00 60.00
4. Teacl Forms of teaching to expla Laborate Lecture Term pa Ord.	erials. Design a hing methods: of teaching act g resources du in the contents Pre-examina ory exercise a attendance aper A Buddy D. Ra Hoffman, Fre	and manufact tivities are learing the lect s of which th ation obligation ttendance suthor tner, Allan S ederick J. k E. Lemons	cturing of me ectures, rese ures, subjec ey are assig ons 	edical instrum earch, practic t matter is pre- ned. Knowledge e Mandatory Yes Yes Yes Yes aterials Science ine, Second F Medical Device	al work or esented to evaluation Points 5.00 5.00 30.00 Liter Title ce: An Intr Edition e R&D Ha	the computer, seminar is students by stimulating the (maximum 100 points) (maximum 100 points) Final exam Oral part of the exam ature	paper, and consultatineir active participation	ons. Using n on as they are Mandatory No Yes	Points 30.00 60.00 Year





Study Programme Accreditation

Production Engineering

Table 5.2 Course specification

Course:	_	Logistics and Simulation in Technologies of Plastics Processing							
Course id:	PLIS1	5.5							
Number of ECTS:	5								
Teachers:		Budak M B. Đorđe		Hodolič J. Janko, Milošević P. Mijodrag, T	odić V. Velimir, Vukelić				
Course status:		Elective							
Number of active tea	ching classe	es (weekly	')						
Lectures:	Practical	classes:	Other teaching types:	Study research work:	Other classes:				
4	0 4 0 0								
Precondition courses			None						
			-						

1. Educational goal:

Students learn how to design manufacturability products, simulation and optimization forming process of plastic products and related tools, as well as their measurement and control. Students learn how to design and optimization manufacturing and assembly process planning tools for plastic products, as well as modeling and simulation technological and manufacturing processes in plastics processing industry.

2. Educational outcomes (acquired knowledge):

The knowledge acquired design manufacturability products, simulation and optimization forming process of plastic products and tools, as well as their measurement and control. The knowledge acquired allow manufacturing process planning for tools. Also acquired knowledge enables modeling and simulation manufacturing process in plastic processing industry.

3. Course content/structure:

The aim, importance and content of course. Models of technological preparation and integrated concepts design and manufacturing products of plastic. Design for manufacturing and assembly-DFMA. Methods and software for use DFMA methodology. Selection of workpiece and manufacturing technologies. Estimate of the cost production. Tools as products high accuracy. Standardization and typing tools. Simulation and optimization forming process of plastic products and related tools. The development of CAD/CAE systems for design tools for plastic. Measurement and control of plastic products and related tools. Design and optimization manufacturing process planning and assembly tools for plastic products. The development of integrated CAPP systems for manufacturing process and related tools. The development knowledge and database for selection elements of technological processes and resources. Modeling and assemblation of manufacturing process and forming optimal spatial structure of manufacturing systems for manufacturing products of plastic and related tools.

4. Teaching methods:

Teaching is performed interactive in the form of lectures, auditory and laboratory and computer exercises. In lectures presents theoretical part of the material followed by typical examples for easy understanding of the material. For auditory exercises are performed typical tasks and deepens the exposed material. On laboratory exercises practically apply their acquired knowledge on the available laboratory equipment. On computer exercises perform us of information communication technology in gaining the knowledge from study area. In addition to lectures and exercises are regularly held and consultation.

		0	,					
Knowledge evaluation (maximum 100 points)								
	Pre-examination obligations		Mandatory	Final exam Mandatory			Points	
Exercis	e attendance		Yes	5.00	Written part of the exam -	- tasks and theory	Yes	30.00
Lecture	attendance		Yes	5.00	Oral part of the exam		Yes	20.00
Term pa	aper		Yes	20.00				
Test			Yes	10.00				
Test			Yes	10.00				
	_			Liter	ature			
Ord.	Author			Title	9	Publisher		Year
1,	Todić, V.	Projek	tovanje tehno	oloških pro	ocesa	FTN, Novi Sad		2004
2,	Lukić, D.	tehnol			ovano projektovanje lata za brizganje plastike,	Fakultet tehničkih n Sad	auka, Novi	2007
3,	Lukić, D.		j opšteg mod odnje, doktor		loške pripreme acija	Fakultet tehničkih n Sad	auka, Novi	2012
4,	Matin, I.			•	za projektovanje alata stike, mag. teza	Fakultet tehničkih n Sad	auka, Novi	2010
5,	Brown, R.L.E.	Desig	n and Manufa	cturing of	Plastics Parts	John Wiley & Sons,	New York	1980
6,	Law, A.M., Kelton, W.D.	Simula	ation Modeling	g and Ana	alysis	McGraw-Hill, New Y	/ork	2000



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

Other classes:

0

Mandatory

Yes

Yes

Points

30.00

40.00

Year

1992

2002

2008

2009

2007

2008

2007

Study Programme Accreditation MASTER ACADEMIC STUDIES

Production Engineering

Course: Precision of machine tools Course id: PP102 Number of ECTS: 6 Teachers: Zeljković V. Milan, Tabaković N. Slobodan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Other teaching types: Study research work: 3 0 3 0 Precondition courses None 1. Educational goal: Mastering the content in the field of precision machine tool and designing as a whole, as well as the design of components that allow precise machining. 2. Educational outcomes (acquired knowledge): Knowledge of individual assemblies and components precision machine tool for machining from the aspect of design. Introduction to the calculation method of contemporary precision machine tools. 3. Course content/structure: The current development and trends in the development of precision machine tools (MA). Define the main characteristics of precision machine tools. Design of precision machine tools components. Main drive and drives support the movement. Other components of precision machine tools. Examination of the vital elements of precision machine tools. Calculation of the vital elements of machine tools using finite element method. Training for the main spindle bearings, especially airstatic and hydrostatic bearings and guides. Training facilities that allow extra movement micro movement. 4. Teaching methods: Classes are held in the form of interactive lectures, laboratory and auditory exerecises and through consultation. In lectures present theoretical part of the material illustrated with examples. Through auditory exercises apply the acquired knowledge in defining the concept of individual substructures of precision machine tools and machine tool as a whole. Through laboratory exercises apply the acquired knowledge to analyze the behavior of individual components of precision machine tools Knowledge evaluation (maximum 100 points) Pre-examination obligations Mandatory Points Final exam Exercise attendance 5.00 Written part of the exam - tasks and theory Yes Graphic paper 20.00 Yes Oral part of the exam Lecture attendance 5.00 Yes Literature Author Title Publisher Gatalo, R., Borojev, Lj., Proračun glavnih karakteristika mašina alatki za Fakultet tehničkih nauka, Novi Zeljković, M. obradu rezanjem Sad Mašine alatke - prenosna struktura mašina alatki -Fakultet tehničkih nauka, Borojev, Lj., Zeljković, M. mehanički prenosnici Interno izdanje, Novi Sad Youssef, H., A., Hassan., E. CRC Press, Taylor and Francis Machining technology-Machine tools and Operations LLC н Lopez de Lacalle, L., N., Machine tools for High Performance Machining Springer-Verlage Lamikiz A Joshi. P.H. Machine tools handbook-Design and Operation The McGraw-Hill Compnies, Inc Springer Science+Business Dornfeld, D., Lee, D.E. Precision Manufacturing Media Springer Science+Business Jackson, M.J. Micro and Nanomanufacturing Media

Ord

1.

2,

3.

4,

5,

6.

7.





Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Course: The dynamics of micro machining systems Course id: PP110 Number of ECTS: 6 Teachers: Antić T. Aco, Zeljković V. Milan, Tabaković N. Slobodan Course status: Elective Number of active teaching classes (weekly) Lectures: Practical classes: Study research work: Other classes: Other teaching types: 3 0 2 0 0 Precondition courses None 1. Educational goal: Getting basic knowledge of computer modeling and experimental investigations of the dynamic behavior of micro machine tools and precision of machine tools 2. Educational outcomes (acquired knowledge): Introduction to modern calculation methods and equipment for the experimental study of the dynamic behaviour of individual components of micro machine tools. 3. Course content/structure: 1. Forced and self forced vibrations in micro machining systems.2.Dynamic model of the cutting process, amplitude-phase characteristics and stability.3. The dynamics underlying structure micro machining systems (matrix form of Lagrange equations, the method of concentrated masses). 4. Dynamics of main drive assembly. 5. Dynamics of feed drive assembly. 6. Equipment for experimental testing and experimental investigation of the dynamic behavior of the vital elements of micro machining systems. 4. Teaching methods: Classes are held in the form of interactive lectures, laboratory exercises, and auditory and through consultation. In lectures, theoretical characteristic of the material is illustrated with examples. Through auditory exercises apply the acquired knowledge in defining the mathematical model to analyze the dynamic behavior of the individual elements of micro machining system. Through labs apply their knowledge to analyze the dynamic behavior of micro machining systems. Knowledge evaluation (maximum 100 points) Points Mandatory Pre-examination obligations Final exam Mandatory Points 5.00 Written part of the exam - tasks and theory Exercise attendance Yes 40.00 Yes Graphic paper 20.00 Oral part of the exam Yes Yes 30.00 Lecture attendance 5.00 Yes Literature Ord Title Publisher Author Year Gatalo, R., Borojev, Lj., Proračun glavnih karakteristika mašina alatki za Fakultet tehničkih nauka -Novi 1992 1 Zeljković, M obradu rezanjem Sad Mašine alatke-Prenosna struktura mašina alatki-Fakultet tehničkih nauka -Novi 2, 2002 Borojev, LJ., Zeljković, M. Sad Mehanički prenosnici Youssef, H., A., Hassan, E.-CRS Pres, Taylor and Francis, 3, Machining technology-Machine tools and Operations 2008 н IIC Lopez de Lacalle, L., N., 4, Machine tools for High Performance Machining 2009 Springer-Verlage Lamikiz, A 5, Joshi, P. H. Machine tools hanb book-Design and Operation The McGraw-Hill Compnies 2007 Werkzeugmaschinen 5: Messtechnische 6, Weck, M., Brecher. C Springer-Verlage 2006 Untersuchung und Beurteilung, dynamische Stabilitat 7, Tlusty, G. Prentice Hall 1999 Manufacturing processes and equipemnet



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

Study Programme Accreditation



Other classes:

0

MASTER ACADEMIC STUDIES

Production Engineering

0

Course:	_					
Course id:	PP2I12	Design of prosthetic devices				
Number of ECTS:	6					
Teachers:		Zeljković	V. Milan, Tabaković N. Slobo	dan		
Course status:		Elective				
Number of active tead	ching classe	es (weekly	()			
Lectures:	Practical	classes:	Other teaching types:	Study research work:		

0

Precondition courses 1. Educational goal:

3

Acquisition of basic theoretical and practical knowledge in the field of designing prosthetic devices in the skeletal prosthetics.

2

None

2. Educational outcomes (acquired knowledge):

Introduction to the geometrical structure and design methods of prosthetic devices. Input into the design process. Design methods. The characteristics and structure of software systems. Computer analysis of the results. Procedures for Design Automation prosthetic devices.

3. Course content/structure:

Fundamentals and basic concepts in the design of skeletal prosthetics. The structure and characteristics of prosthetic devices. Fundamentals of Geometry lower extremity prosthesis. Fundamentals of Geometry upper extremity prostheses. Other skeletal prostheses. Methods of product. The structure of software systems for development and design of product. Computer analyzes of prosthetic devices in operation by using CAE software and virtual reality.

4. Teaching methods:

Teaching is performed in the form of interactive lectures, computer exercises and through consultation. In lectures, theoretical characteristic of the material is illustrated with examples. Through computer exercises apply their knowledge to solve a specific task. In addition to lectures and exercises are regularly held and consultation. Exam score is based on: the presence of lectures and exercises, and successfullysolved tasks (two tasks), the success of the written and the verbal part of the exam.

	Knowledge evaluation (maximum 100 points)									
Pre-examination obligations Mandatory Points Final						xam	Mandatory	Points		
Exercis	e attendance		Yes	5.00	Written part of the exam	- tasks and theory	Yes	30.00		
Graphic	paper		Yes	20.00	Oral part of the exam		Yes	40.00		
Lecture	attendance		Yes	5.00						
				Liter	ature					
Ord.	Author			Title	;	Publishe	er	Year		
1,	Bronzino, J.	The B Editior		gineering	HandBook, Second	CRC Press		2000		
2,	Leondes, C.	Applic	chanical Sys ations, Volum utational Met	ne I: Comp	outer Techniques and	CRC Press		2000		
3,	Moratal, D.		Element Ana ations to Indu		m Biomedical relopments	InTeO		2012		





Study Programme Accreditation

Production Engineering

	e:		linte	lintegrated VR development environments for engineering						
Course	e id:	SM1061				applications				
Numbe	er of ECTS:	6				applications	,			
Teache	er:		Lužanin B. C)gnjan						
Course status: Elective										
Numbe	er of active teac	hing classe	s (weekly)							
L	_ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other clas	sses:	
	3	C)	2		0		0		
Precon	dition courses	•	· · ·	None						
1. Educ	cational goal:									
The go	al of this subje	ct is to intro	duce student	s to the princi	ples of bu	ilding VR applications to p	perform engineering t	asks.		
2. Educ	cational outcom	nes (acquire	ed knowledge):						
	completion of t VR software a					I knowledge and practic problems.	al skills which enabl	e them to de	sign and	
3. Cour	rse content/stru	icture:								
3. Course content/structure: Concept, role and significance of virtual reality (VR) technologies in engineering. Review of fundamental technologies present in VR - primary input devices, stereoscopy and stereoscopic devices, devices and techniques for object tracking in 3-D space. principles of using integrated VR software development environments - modelling of VR objects, creation of scenes, integration of VR hardware devices into										
	a VR application. Event generation, programming of object movements within scene, collision detection.							ace. principles	of using	
a VR a	pplication. Eve ching methods:	e developm nt generatio	ent environm	ients - model	ling of VR	s and techniques for obje objects, creation of scen	ct tracking in 3-D spa es, integration of VR	ace. principles	of using	
a VR a 4. Teac	ching methods:	e developm nt generatio	ent environm on, programm	ients - model	lling of VR movemen	s and techniques for obje objects, creation of scen	ct tracking in 3-D spa es, integration of VR letection.	ace. principles hardware dev	of using	
a VR a 4. Teac	ching methods:	e developm nt generatio	ent environm on, programm	nents - model	lling of VR movemen s. Student	s and techniques for obje objects, creation of scen ts within scene, collision of	ct tracking in 3-D spa es, integration of VR letection.	ace. principles hardware dev	of using	
a VR a 4. Teac	ching methods:	e developm nt generatio ough lectur	ent environm on, programm es and labora	nents - model	lling of VR movemen s. Student	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente	ct tracking in 3-D spa es, integration of VR detection. d problems during la	ace. principles hardware dev	of using	
a VR a 4. Teac The cou	ching methods: urse is held thr	e developm nt generatio ough lectur	ent environm on, programm es and labora	nents - model ning of object ntory practices Knowledge e	lling of VR movemen s. Students evaluation Points	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points)	ct tracking in 3-D spa es, integration of VR detection. d problems during la am	ace. principles hardware dev b classes.	of using vices into	
a VR a 4. Teac The cou Compu	ching methods: urse is held thr Pre-examina	e developm nt generatio ough lectur	ent environm on, programm es and labora	nents - model ning of object ntory practices Knowledge e Mandatory	ling of VR movemen s. Student evaluation Points 5.00	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points) Final ex	ct tracking in 3-D spa es, integration of VR detection. d problems during la am	ace. principles hardware dev b classes. Mandatory	of using vices into	
a VR a 4. Teac The cou Compu	ching methods: urse is held thr Pre-examina iter exercise att attendance	e developm nt generatio ough lectur	ent environm on, programm es and labora	tory practices Knowledge e Mandatory Yes	ling of VR movemen s. Student evaluation Points 5.00	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points) Final ex Written part of the exam	ct tracking in 3-D spa es, integration of VR detection. d problems during la am	ace. principles hardware dev b classes. Mandatory Yes	of using vices into	
a VR aj 4. Teac The cou Compu Lecture	ching methods: urse is held thr Pre-examina iter exercise att attendance	e developm nt generatio ough lectur	ent environm on, programm es and labora	tory practices Knowledge e Mandatory Yes Yes	ling of VR movemen s. Students evaluation Points 5.00 5.00 20.00	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points) Final ex Written part of the exam	ct tracking in 3-D spa es, integration of VR detection. d problems during la am	ace. principles hardware dev b classes. Mandatory Yes	of using vices into	
a VR a 4. Teac The cou Compu Lecture	ching methods: urse is held thr Pre-examina iter exercise att attendance task	e developm nt generatio ough lectur	ent environm on, programm es and labora ions	tory practices Knowledge e Mandatory Yes Yes Yes	ling of VR movemen s. Students evaluation Points 5.00 5.00 20.00 Liter Title	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	ct tracking in 3-D spa es, integration of VR detection. d problems during la am	ace. principles hardware dev b classes. Mandatory Yes Yes	of using vices into	
a VR a 4. Teac The cou Compu Lecture Project	ching methods: urse is held thr Pre-examina iter exercise att attendance task	e developm nt generatio ough lectur ation obligat tendance	ent environm on, programm es and labora ions	nents - model ning of object of ntory practices Knowledge e Mandatory Yes Yes Yes Nes	ling of VR movemen s. Students evaluation Points 5.00 5.00 20.00 Liter Title	s and techniques for obje objects, creation of scen ts within scene, collision of s solve practically oriente (maximum 100 points) Final ex Written part of the exam Oral part of the exam ature	ct tracking in 3-D spa es, integration of VR detection. d problems during la am - tasks and theory	ace. principles hardware dev b classes. Mandatory Yes Yes Yes	Points 30.00 40.00	



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



Study Programme Accreditation

Production Engineering

			Mode	ling and s	simula	tion of thermo c	hemical and	metallur	aical		
Course id:	l:	SMI002		Modeling and simulation of thermo chemical and metallurgical processes							
Number o	of ECTS:	5				processes					
Teachers:	:		Kakaš I. Da	Kakaš I. Damir, Škorić N. Branko							
Course sta	tatus:		Elective	lective							
Number o	of active teac	hing classe	es (weekly)								
Lec	ctures:	Practical	classes:	Other teachi	ng types:	Study rese	arch work:	Other cla	sses:		
	3	()	2		0		0			
Preconditi	tion courses		<u> </u>	None							
1. Educati	tional goal:			,							
much time engineers methods of	e for expering s have possion of developm	mentation bility to pre ent. During	and prototy edict materia g the course	ping in manufa I and process students will f	acturing. I behavior amiliarize	e to market has been cor By using computer techn with the goal to avoid or with techniques which w imal technology and app	nologies and adequa reduce costly trial-by ill provide them a po	ate software s -error and pro ssibility of hig	solutions ototyping		
2. Educati	tional outcom	nes (acquire	ed knowledg	e):							
						n possible to select opti evices used in everyday		al heat treatn	nent and		
casting process for tools and mechanical parts of machines and devices used in everyday activities.											
	e content/stru										
Introduction properties Simulation transfer d	ion to simula s prediction n of surface	ation. Ther and techno treatments ication. Po	ology plannii Simulation	ng in heat trea of diffusion pro	tment. Pre	d fluids. Models for simu ediction of generation of Simulation in casting and ucture modeling. Integra	residual stresses, de solidification simulati	eformation an ion. Simulatio	d cracks n of heat		
Introduction properties Simulation transfer d design an	ion to simula s prediction n of surface during solidif	ation. Ther and techno treatments ication. Po	ology plannii Simulation	ng in heat trea of diffusion pro	tment. Pre	ediction of generation of Simulation in casting and	residual stresses, de solidification simulati	eformation an ion. Simulatio	d cracks. n of heat		
Introduction properties Simulation transfer d design and 4. Teachin Forms of teaching r to explain	ion to simula s prediction a n of surface during solidif nd manufact ng methods: t teaching ac resources du	ation. Ther and techno treatments ication. Po uring. tivities are tring the lea	blogy plannin S. Simulation prosity during e lectures, p ctures, subje	g in heat trea of diffusion pro- g solidification ractical work of ct matter is pre-	tment. Pre ocesses. § . Microstru on the cor esented to	ediction of generation of Simulation in casting and	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation	eformation an ion. Simulatio simulation ir ons. Using ne on as they are	d cracks n of heat product ecessary required		
Introduction properties Simulation transfer d design and 4. Teachin Forms of teaching r to explain	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents	ation. Ther and techno treatments ication. Po uring. tivities are tring the lea	blogy plannin S. Simulation prosity during e lectures, p ctures, subje	g in heat trea of diffusion pro g solidification ractical work of ct matter is pre igned. The pra	tment. Pre ocesses. S . Microstru on the cor esented to ctical part	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation	eformation an ion. Simulatio simulation ir ons. Using ne on as they are	d cracks. n of heat product ecessary required		
Introduction properties Simulation transfer d design an 4. Teachin Forms of teaching r to explain do the pro	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du the contents oject alone. Pre-examina	ation. Ther and techno treatments ication. Po uring. trivities are rring the lea s of which i ation obliga	blogy plannin Simulation prosity during e lectures, p ctures, subje they are ass	g in heat trea of diffusion pro g solidification ractical work of ct matter is pre igned. The pra	tment. Pre ocesses. S . Microstru on the cor esented to ctical part evaluation Points	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e:	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation work on computer. S	eformation an ion. Simulatio simulation ir ons. Using ne on as they are	d cracks n of heat product ecessary required bbliged to Points		
Introduction properties Simulation transfer d design and 4. Teaching Forms of teaching r to explain do the proc I Computer	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att	ation. Ther and techno treatments ication. Po uring. trivities are rring the lea s of which i ation obliga	blogy plannin Simulation prosity during e lectures, p ctures, subje they are ass	g in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes	tment. Pre- ocesses. S . Microstru- on the cor esented to ctical part evaluation Points 5.00	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation work on computer. S	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No	d cracks. n of heat product ecessary required bbliged to Points 30.00		
Introduction properties Simulation transfer d design an 4. Teaching Forms of teaching r to explain do the pro- I Computer Lecture at	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du the contents oject alone. Pre-examina	ation. Ther and techno treatments ication. Po uring. trivities are rring the lea s of which i ation obliga	blogy plannin Simulation prosity during e lectures, p ctures, subje they are ass	g in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes	tment. Pre- ccesses. S . Microstru- on the cor esented to ctical part evaluation Points 5.00 5.00	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e:	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation work on computer. S	eformation an ion. Simulation ir ons. Using ne on as they are Students are o	d cracks n of heat product ecessary required bbliged to Points 30.00		
Introduction properties Simulation transfer d design and 4. Teaching Forms of teaching r to explain do the proc I Computer	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att	ation. Ther and techno treatments ication. Po uring. trivities are rring the lea s of which i ation obliga	blogy plannin Simulation prosity during e lectures, p ctures, subje they are ass	g in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes	tment. Pre- ccesses. S . Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro- students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam Oral part of the exam	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation work on computer. S	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No	d cracks. n of heat product ecessary required bbliged to Points 30.00		
Introduction propertiess Simulation transfer d design and 4. Teaching Forms of teaching r to explain do the proceed Computer Lecture at Project	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att ttendance	ation. Ther and techno treatments ication. Po uring. tivities are ring the lea s of which the tion obliga rendance	blogy plannin Simulation prosity during e lectures, p ctures, subje they are ass	g in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes	tment. Pre- cocesses. S . Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00 Liter	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro- students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam Oral part of the exam ature	residual stresses, de solidification simulati tion of modeling and jects, and consultationeir active participation work on computer. S kam	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No Yes	d cracks n of heat product ecessary required bbliged to Points 30.00 60.00		
Introduction properties Simulation transfer d design an 4. Teaching Forms of teaching r to explain do the pro- I Computer Lecture at Project Ord.	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att ttendance	ation. Ther and techno treatments ication. Po uring. tivities are ring the lease s of which the ation obliga tendance	blogy plannin Simulation prosity during e lectures, pubje they are ass tions	in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes Yes	tment. Pre- ocesses. S. Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00 Liter Title	ediction of generation of Simulation in casting and ucture modeling. Integra mputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam Oral part of the exam ature	residual stresses, de solidification simulati tion of modeling and jects, and consultati neir active participatic work on computer. S kam Publishe	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No Yes	d cracks n of heat product ecessary required bbliged to Points 30.00 60.00 Year		
Introduction propertiess Simulation transfer d design and 4. Teaching Forms of teaching r to explain do the proceed Computer Lecture at Project Ord. 1, 5	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att ttendance A David Furrer Semiatin	ation. Ther and techno treatments ication. Po uring. trivities are ring the lease s of which the ation obliga tendance	e lectures, p ctures, subje they are ass tions ASM Simulation	in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes Yes Handbook Vo ulation	tment. Pre- cocesses. S . Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00 Liter: Title	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam Oral part of the exam ature e : Metals Process	residual stresses, de solidification simulati tion of modeling and jects, and consultati- meir active participation work on computer. S kam Publishe ASM International	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No Yes	d cracks n of heat n product ecessary required bbliged to Points 30.00 60.00 Year 2010		
Introduction propertiess Simulation transfer d design and 4. Teaching Forms of teaching r to explain do the proceed Computer Lecture at Project Ord. 1, 5	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att ttendance A David Furrer	ation. Ther and techno treatments ication. Po uring. trivities are ring the lease s of which the ation obliga tendance	e lectures, p ctures, subje they are ass tions ASM Simu	in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes Yes I Handbook Vo ulation I Heat Treatme	tment. Pre- cocesses. S . Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00 Liter- Title lume 22B:	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) (maximum 100 points) Final e: Coloquium exam Oral part of the exam ature e : Metals Process urgy and Technologies	residual stresses, de solidification simulati tion of modeling and jects, and consultati neir active participatic work on computer. S kam Publishe	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No Yes	d cracks. n of heat product ecessary required abliged to Points 30.00 60.00 Year		
Introduction properties Simulation transfer d design an 4. Teaching Forms of teaching r to explain do the pro- Computer Lecture at Project Ord. 1, E 2, 0	ion to simula s prediction a n of surface during solidif nd manufact ng methods: teaching ac resources du n the contents oject alone. Pre-examina r exercise att ttendance A David Furrer Semiatin	ation. Ther and techno treatments ication. Po uring. tivities are s of which the ation obliga arendance uthor and S. L.	e lectures, p ctures, subje they are ass tions ASM Simu Stee Mod	in heat trea of diffusion pro- g solidification ractical work of ct matter is pre- igned. The pra Knowledge of Mandatory Yes Yes Yes I Handbook Vo ulation I Heat Treatme	tment. Pre- cocesses. S . Microstru- on the cor- esented to ctical part evaluation Points 5.00 5.00 30.00 Liter- Title lume 22B: ent: Metallu	ediction of generation of Simulation in casting and ucture modeling. Integra nputer, construction pro students by stimulating ti is mastered by students` (maximum 100 points) Final e: Coloquium exam Oral part of the exam ature e : Metals Process	residual stresses, de solidification simulati tion of modeling and jects, and consultati- meir active participation work on computer. S kam Publishe ASM International	eformation and ion. Simulation in ons. Using ne on as they are Students are of Mandatory No Yes	d cracks. n of heat n product ecessary required bbliged to Points 30.00 60.00 Year 2010		



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



Study Programme Accreditation

Production Engineering

	:			_							
Course	id:	SMI003	S S	Software support for cutting tools and fixtures modeling							
Numbe	r of ECTS:	5									
Teache	ers:		Sovilj N. B	ogdan, Vukelić	B. Đorđe						
Course	status:		Elective	ctive							
Numbe	r of active tead	ching classe	es (weekly)								
L	ectures:	Practical	classes:	Other teachi	ng types:	Study resea	arch work:	Other cla	isses:		
	3	0)	2		0		0			
Precon	dition courses			None							
1. Educ	ational goal:										
To train	n students for n	nodeling an	nd design of	cutting tools an	d fixtures b	by using modern informa	tion and communicat	ion technolog	jies.		
2. Educ	cational outcom	nes (acquire	ed knowled	ge):							
	ined knowledg nd fixtures.	ge will allow	v to model	cutting tools an	d fixtures,	as well as developing the	ne system for autom	ation design	of cutting		
3. Cour	se content/stru	ucture:									
 modeling of cutting tools. The application of artificial intelligence in the development of systems for modeling and design of cutting tools. Automation of modeling and design of cutting tools by usage of modern computer and software systems. Modeling of universal and special fixtures. Databases of universal and special fixtures. Methods and algorithms for modeling of fixtures. Mathematical formulation and numerical analysis for modeling of fixtures. The application of artificial intelligence in the development of systems for modeling and design of fixtures. Automation of modeling and design of fixtures by usage of modern computer and software systems. 4. Teaching methods: Lectures are realized interactively through lectures, auditory, laboratory and computer practical classes. In lectures theoretical part is 											
and nui design 4. Teac Lecture present	merical analys of fixtures. Au ching methods: es are realized ted with charac	is for mod tomation of l interactive cteristic exa	eling of fixt f modeling a ely through amples for l	ures. The applic and design of fix lectures, audito better understar	ation of art ktures by u pry, laborat nding of sul	tificial intelligence in the isage of modern comput tory and computer pract ibject content. Practical	development of syster and software syster and software syster tical classes. In lectu	tems for mod ems. ures theoretic	eling and		
and nui design 4. Teac Lecture present	merical analys of fixtures. Au ching methods: es are realized ted with charac	is for mod tomation of l interactive cteristic exa	eling of fixt f modeling a ely through amples for l	ures. The applic and design of fix lectures, audito better understar onsultations are	ation of art ktures by u ory, laborat nding of sul held regu	tificial intelligence in the isage of modern comput tory and computer pract ibject content. Practical ilarly.	development of syster and software syster and software syster tical classes. In lectu	tems for mod ems. ures theoretic	eling and		
and nui design 4. Teac Lecture present	merical analys of fixtures. Au ching methods: es are realized ted with charac rom lectures an	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e	ation of an tures by u bry, laborat ading of sul held regu valuation (tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical ilarly. (maximum 100 points)	development of sys er and software syst tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap	eling and cal part is oplication		
and nu design 4. Teac Lecture present Apart fr	merical analys of fixtures. Au ching methods: es are realized ted with charac rom lectures an Pre-examina	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e Mandatory	ation of an tures by u bry, laborat ading of sul beheld reguing evaluation (Points	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical ilarly. (maximum 100 points) Final ex	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory	eling and cal part is oplication. Points		
and nui design 4. Teac Lecture present Apart fr Exercis	merical analys of fixtures. Au ching methods: es are realized ted with charac rom lectures an Pre-examina e attendance	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e Mandatory Yes	ation of an Atures by u bry, laborat ading of sul held regu evaluation (Points 5.00 V	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical ilarly. (maximum 100 points) Final exam	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory Yes	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture	merical analys of fixtures. Au ching methods: es are realized ted with charace rom lectures an Pre-examina e attendance e attendance	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes	ation of an Atures by u bry, laborat ading of sul held regu evaluation (Points 5.00 V 5.00 C	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical ilarly. (maximum 100 points) Final ex	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis	merical analys of fixtures. Au thing methods: es are realized ted with charac om lectures an Pre-examina e attendance e attendance task	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes Yes	ation of an Atures by u bry, laborat ading of sul held regu evaluation (Points 5.00 V	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical v larly. (maximum 100 points) Final exam	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory Yes	eling and cal part is oplication.		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project	merical analys of fixtures. Au thing methods: es are realized ted with charac om lectures an Pre-examina e attendance e attendance task	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes	extion of an extures by u bry, laborat ading of sul held regu evaluation (Points 5.00 v 5.00 c 15.00	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical v larly. (maximum 100 points) Final exam	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory Yes	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project	merical analys of fixtures. Au thing methods: es are realized ted with charac om lectures an Pre-examina e attendance e attendance task	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	lectures, audito better understar onsultations are <u>Knowledge e</u> Mandatory Yes Yes Yes Yes	ation of an atures by u bry, laborat ading of sul e held regul evaluation (Points 5.00 V 5.00 C 15.00 15.00	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical v larly. (maximum 100 points) Final exam	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory Yes	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project Test	merical analys of fixtures. Au thing methods: es are realized ted with charac om lectures an Pre-examina e attendance e attendance task	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes Yes Yes Yes Yes	extion of an extures by u pry, laborat ading of sul e held regu evaluation (Points 5.00 v 5.00 v 5.00 c 15.00 15.00 10.00	tificial intelligence in the isage of modern comput bject content. Practical ilarly. (maximum 100 points) Final e Written part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by	tems for mod ems. ures theoretic computer ap Mandatory Yes	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project Test	merical analys of fixtures. Au thing methods: es are realized ted with charac om lectures an Pre-examina e attendance task task	is for mod tomation of l interactive cteristic exa nd practica	eling of fixti f modeling a ely through amples for l I classes, c	lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes Yes Yes Yes Yes	ation of an Atures by u bry, laborat ading of sul held regul evaluation (Points 5.00 V 5.00 V 5.00 C 15.00 10.00 10.00	tificial intelligence in the isage of modern comput bject content. Practical ilarly. (maximum 100 points) Final e Written part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by cam - tasks and theory Publishe	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes	eling and cal part is oplication Points 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project Test Test Ord. 1,	merical analys of fixtures. Au ching methods: es are realized ted with charac om lectures an Pre-examina e attendance task task task Vukelić, Đ.	I interactive cteristic exa nd practica ation obliga	eling of fixti f modeling a ely through amples for l l classes, c tions	ures. The applic and design of fix lectures, audito better understar onsultations are <u>Knowledge e</u> <u>Mandatory</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u>	ation of an Atures by u bry, laborat ading of sul held regu avaluation (Points 5.00 V 5.00 V 5.00 (15.00 15.00 10.00 10.00 Litera Title	tificial intelligence in the isage of modern comput tory and computer pract bject content. Practical v larly. (maximum 100 points) Final exam Oral part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by cam - tasks and theory Publishe Fakultet tehničkih n Sad	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes Yes	eling and cal part is oplication. Points 20.00 20.00 20.00 Year 2012		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project Test Test Ord. 1, 2,	merical analys of fixtures. Au ching methods: es are realized ted with charac om lectures an Pre-examina e attendance task task Vukelić, Đ. Graham, G.,	I interactive cteristic exa nd practica ation obliga Author Steffen, D.	eling of fixti f modeling a ely through amples for l l classes, c tions tions Aut	ures. The applic and design of fix lectures, audito better understar onsultations are <u>Knowledge e</u> <u>Mandatory</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u>	extion of an extures by u bry, laborat ading of sul held regu evaluation (Points 5.00 v 5.00 v 5.00 c 15.00 15.00 10.00 10.00 Litera Title	tificial intelligence in the isage of modern comput bject content. Practical of ilarly. (maximum 100 points) Final exam Oral part of the exam Oral part of the exam	development of syster and software syster ical classes. In lectu work is performed by cam - tasks and theory Publishe Fakultet tehničkih n Sad Kompjuter bibliotek	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes Yes auka, Novi a, Beograd	eling and cal part is oplication Points 20.00 20.00 Year 2012 2002		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Test Test Ord. 1, 2, 3,	merical analys of fixtures. Au ching methods: es are realized ted with charac rom lectures an Pre-examina e attendance task task task Vukelić, Đ. Graham, G., Kalameja, J.	I interactive cteristic exa nd practica ation obliga Author Steffen, D. A.	eling of fixti f modeling a ely through amples for l I classes, c tions tions Aut Pro	ures. The applic and design of fix lectures, audito better understar onsultations are <u>Knowledge e</u> <u>Mandatory</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u>	extion of an extures by u bry, laborat ading of sul held regu evaluation (Points 5.00 v 5.00 c 15.00 15.00 10.00 10.00 10.00 Litera Title bjektovanje ere mašins	tificial intelligence in the isage of modern computer bject content. Practical of ilarly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by cam - tasks and theory - tasks and theory - Fakultet tehničkih n Sad Kompjuter bibliotek	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes Yes auka, Novi a, Beograd	eling and cal part is oplication Points 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Project Test Test Ord. 1, 2,	merical analys of fixtures. Au shing methods: es are realized ted with charace rom lectures an Pre-examina e attendance task task Vukelić, Đ. Graham, G., Kalameja, J. Sovilj, B., So	I interactive cteristic exa nd practica ation obliga Author Steffen, D. A. wilj-Nikić, I.	eling of fixti f modeling a ely through amples for l I classes, c tions tions Aut Pro Aut Pro	ures. The applic and design of fix lectures, audito better understar onsultations are <u>Knowledge e</u> <u>Mandatory</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u> <u>Yes</u>	extion of an extures by u bry, laborat ading of sul held regu evaluation (Points 5.00 v 5.00 v 5.00 c 15.00 15.00 15.00 10.00 10.00 10.00 10.00 20 10.00 10	tificial intelligence in the isage of modern computer bject content. Practical of ilarly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by cam - tasks and theory - tasks and theory - Fakultet tehničkih n Sad Kompjuter bibliotek Kompjuter bibliotek	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes Yes auka, Novi a, Beograd a, Beograd	eling and cal part is oplication. Points 20.00 20.00 Year 2012 2002		
and nui design 4. Teac Lecture present Apart fr Exercis Lecture Project Test Test Ord. 1, 2, 3,	merical analys of fixtures. Au ching methods: es are realized ted with charac rom lectures an Pre-examina e attendance task task task Vukelić, Đ. Graham, G., Kalameja, J.	I interactive cteristic exa nd practica ation obliga Author Steffen, D. A. wilj-Nikić, I. avarise, G.	eling of fixti f modeling a ely through amples for l I classes, c tions tions Aut Pro Aut Pro mod	ures. The applic and design of fix lectures, audito better understar onsultations are Knowledge e Mandatory Yes Yes Yes Yes Yes Yes Yes Omatizovano pro /ENGINEER oCAD za inženji lloge za predava delovanje alata	ation of an Atures by u bry, laborat ading of sul held regu aduation (Points 5.00 V 5.00 V 5.00 (15.00 15.00 10.00 10.00 Litera Title bjektovanje anja- Softve za obradu r	tificial intelligence in the isage of modern computer bject content. Practical of ilarly. (maximum 100 points) Final ex Written part of the exam Oral part of the exam Oral part of the exam	development of syster and software syster tical classes. In lectu work is performed by cam - tasks and theory - tasks and theory - Fakultet tehničkih n Sad Kompjuter bibliotek	tems for mod ems. ures theoretic computer ap Mandatory Yes Yes Yes auka, Novi a, Beograd a, Beograd a, Beograd a, Beograd	eling and cal part is oplication. Points 20.00 20.00 20.00 20.00 20.00 20.00 20.00		

ALL ANTER STORES

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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering



Standard 06. 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, and especially in the European educational system. The study programme in Production Engineering is comparable and coordinated with:

1.Fakultet strojarstva i brodogradnje, University in Zagreb, Internet presentation of this faculty is available at http://www.fsb.hr

2.Tehnički Fakultet in Rijeka, Internet presentation of this faculty is available at http://www.riteh.hr

3.Sovački univerzitet za tehnologiju in Bratisalva, Mašinski Fakultet (Slovak University of Technology in Bratislava, Faculty of Mechanical Engineering). Internet presentation of this faculty is available at hppt://www.sjf.stuba.sk



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

Study Programme Accreditation

Production Engineering

Standard 07. Student Enrollment

MASTER ACADEMIC STUDIES

A higher education institution, 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.

Students from other study programme can transfer to this study programme as well as persons who completed studies. The evaluation commission (consisting of Heads of Departments included in study programme realization) 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

Production Engineering



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 Production Engineering.

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.

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 exams are defined for each subject individually.

Student's advancement during the studying is determined by Regulations for studying at graduate academic studies.



Standard 09.

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

Study Programme Accreditation

Production Engineering



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 lecturers are full time employed at the Faculty.

Number of associates correspond 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, which is 10 classes weekly.

Scientific and professional qualifications of lecturers 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.

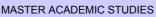
Group size for classes is up to 32, practical classes groups is up to 16, and laboratory practical classes groups up to 8 students.

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



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

Study Programme Accreditation



Production Engineering

Science, arts and professional qualifications

Nam	e and last n	ame.			Antić T. Aco			
-	e and last n				Assistant Professor			
		itution	vhere the to	acher works full time and	F 11 (T		nces - Novi Sad	
	ng date:				01.07.1994			
	ntific or art f	ield:			Machine Tools, Flexible Technological Systems and Automatization			
	demic carieer Year Institution					Field		
	emic title el		2010	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design	
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
Bach	elor's thesis	3	1993	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.	P1402	CAD/C	CAE/CAM i	CIM Systems		(P00) Prod Studies	duction Engineering, Undergraduate Academic	
2.	P301	Autom	ation in Pro	duction Engineering		(P00) Proo Studies	duction Engineering, Undergraduate Academic	
3.	P304	Proces	ssing and T	echnological Systems		(P00)Proo Studies	duction Engineering, Undergraduate Academic	
4.	P307	Autom	ated Flexib	le Technologial Systems		(P00)Proo Studies	duction Engineering, Undergraduate Academic	
5.	P1405	Conte	mporary Ap	proach to Product Design	ing	, ,	duction Engineering, Master Academic Studies	
6.	P307A	Flexibl	e technolog	gical systems		(E20) Computing and Control Engineering, Master Academic Studies		
7.	PAUP1	Autom	atization in	plastic		(PM0) Production Engineering, Master Academic Studies		
8.	PP110	The dy	namics of I	micro machining systems		(PM0) Production Engineering, Master Academic Studies		
9.	ZRMI1A			e and human vibration in	,		ety at Work, Master Academic Studies	
10.	DP001	Engine	eering	arch Methods in Productic		(M00) Mechanical Engineering, Doctoral Academic Studies		
11. 12	DP010 DP019	Workir	ng Systems			(M00) Mechanical Engineering, Doctoral Academic Studies		
12.				ing and Experimental Tes	ting of	(M00) Mechanical Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies		
13.	ZRD18A		ng Systems			(201) Sale	ety at Work, Doctoral Academic Studies	
Rep	presentative	reffere	nces (minin	num 5, not more than 10)				
1.							r Monitoring System for a Turning Process, . 763- 776, ISSN 0039-2480.	
2.							Wear Monitoring Applying Neural Networks, SUE 1-2, pp 146-151, Poland, 2006, ISSN 1734-	
3.				Budak, I., Antić, A., Kosec ija 51, 1, 2012, pp 113 -11			ts method (FEM) model for the jib structure of a	
4.	, ,		, ,	ković, M., Kosec, B., Hodo plogije 46, 3, 2012, pp 279	,		I wear on the chip-forming mechanism and tool	
5.				tić, A., Kosec, B.: Special 11, pp 649-655, ISSN: 133		: Theoretica	l background and application, Tehnički vjesnik-	
6.	Antié A Kovačević D. Zeliković M. Kosec B. Novak Marcinčin, J. Wear level influence on chin segmentation and vibration							
7.	Antić A. Zelikovć M. Novak-Marcinčin, L. Influence of Tool Wear and Chin Forming Mechanism on Tool Vih					ming Mechanism on Tool Vibration, Journal of		
8.				k I., Antić A., Kosec B.: Fa 450-454, ISSN 1350-6307		ion from the	e drive of a cement mill, Engineering Failure	
9.		-				•	ysis in Prevention of the Waterway Dredger's g/10.1016/j.engfailanal.2012.10.009, ISSN 1350-	
10.				, Ungureanu N., Milošević ng and Industrial Enginee			ce Tool Wear and Chip Forming Mechanism on op. 5-8, ISSN 1335-7972	



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

Study Programme Accreditation

Production Engineering

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

Cuminary data for teacher 5 solentine of art and prov	coolonial activity.			
Quotation total :	13			
Total of SCI(SSCI) list papers :	6			
Current projects :	Domestic :	1	International :	2



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Science, arts and professional qualifications

				•					
	e and last n	ame:			Baloš S. Seb				
	lemic title:				Assistant Pro		na na Navi Os d		
	e of the inst ng date:	itution v	vhere the te	eacher works full time and	01.04.2001	cnnical Scie	nces - Novi Sad		
	ntific or art f	ield [.]			Material Science and Engineering Materials				
	lemic carie					Field			
	lemic title e		2011	Faculty of Technical Sci	ences - Novi S				
	thesis	000011.	2010	Faculty of Technical Sci			Material Science and Engineering Materials		
	ster thesis		2009	Faculty of Technical Sci			Material Science and Engineering Materials		
	elor's thesis	5	2000	Faculty of Technical Sci			Material Science and Engineering Materials		
		-		acher in the accredited stu					
	ID	Course	e name			Study pro	gramme name, study type		
1.	P206	Weldir	ng Technolo	ogy		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
2.	P2406	Compo	osite Materi	als		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
3.	P2409	Moder	n Joining T	echnologies - 1		(P00) Prod Studies	duction Engineering, Undergraduate Academic		
4.	P2409A	Moder	n Joining T	echnologies - 2		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
5.	P4406	Joining	g Technolog	gy of Modern Materials		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
6.	II1001	Engine	eering mate	rials		(110) Indus Studies	strial Engineering, Undergraduate Academic		
7.	M2062	Mecha	anical engin	eering technologies 2		(M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design,			
		Taska	-1			Undergraduate Academic Studies (M30) Energy and Process Engineering, Undergraduate			
8.	M3203	Techn	ology of ma	ichinery		Academic Studies			
						(MR0) Measurement and Control Engineering, Undergraduate Academic Studies			
9.	ZC003	Electro	omechanica	Il materials		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies			
10.	P2501	Proces	ss Design ir	Welding Technology		(PM0) Production Engineering, Master Academic Studies			
11.	BMIM4G	Bioma		<u> </u>		(BM0) Biomedical Engineering, Master Academic Studies			
12.	PPI106	Joining	g technolog	ies in precision engineerir	ng	(PM0) Production Engineering, Master Academic Studies			
13.	PTS01	Techn	ology of sin	tering		(PM0) Pro	duction Engineering, Master Academic Studies		
14.	DP001	Desigr Engine		arch Methods in Productio	on	(M00) Me	chanical Engineering, Doctoral Academic Studies		
15.	SAP002	Engine	eering Mate	rials		(M00) Me	chanical Engineering, Doctoral Academic Studies		
16.	DP023	Joinin	g technolog	ies - selected topics		(M00) Me	chanical Engineering, Doctoral Academic Studies		
17.	DP024	Weldir	ng technolog	gy - selected topics		(M00) Me	chanical Engineering, Doctoral Academic Studies		
18.	DP025	Mater	ials Corrosi	on and Protection		(M00) Me	chanical Engineering, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.							impacted by armour-piercing incendiary 69		
 ammunition, Materials and Design, 2011, Vol. 32, pp. 4022-4029, ISSN 0261-3069 Baloš S., Arlan B., Alan P.: Roman mystery iron blades from Serbia , Materials Characterization, 200 276, ISSN 1044-5803 					s Characterization, 2009, Vol. 60, No 4, pp. 271-				
3.	Baloš S. Šiđanin (Sidianin) I. Microdeformation of soft particles in metal matrix composites. Journal of Materials Processing								
4.	Baloš S. Arlan B. Alan P.: Roman mystery iron blades from Serbia. Microscopy and microanalysis. 2007. Vol. 13. No.								
5.			ov V., Šiđar I 0261-3069		: Wire fence a	s applique a	rmor, Materials and Design, 2010, Vol. 31, pp.		
·									

c	TAS STUR		UNIVERSITY OF NO	VI SAD		WKWX 4		
AN A	NON CONCERNING	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
N. 2		Study F	Programme A	ccreditatio	on	EXF .		
6	LANTEN	MASTER ACADEMIC STUDIES			Production Engineering	HOP		
Re	presentative re	efferences (minimum 5, not more th	an 10)					
6.		rabulov V., Šiđanin (Sidjanin) L., Pa plates for ballistic application, Mater				unting of		
7.		đanin (Sidjanin) L., Kovač P., Baloš le and coefficients of friction, Industi						
8.		., Jovalekić Č., Sekulić D., Slankan ured Spinel NiFe2O4 Obtained by S						
9.		đanin (Sidjanin) L., Baloš S.: Mecha gy, 2011, Vol. 63, No 6, pp. 427-43		cutting regimes	and surface texture, Industr	al Lubrication		
10.		Baloš S., Balos T., Šiđanin (Sidjanin) L., Marković D., Pilić B., Pavličević J.: Study of PMMA biopolymer properties treated by microwave energy, Materiale Plastice, 2011, Vol. 48, No 02, pp. 127-131, ISSN 0025-5289						
Su	Summary data for teacher's scientific or art and professional activity:							
Quo	uotation total : 15							
Total of SCI(SSCI) list papers : 13								
Curr	ent projects :		Domestic :	2	International :	0		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Science, arts and professional qualifications

Nam	e and last n	ame.			Budak M. Igor				
	emic title:	ame.			Assistant Professor				
		titution v	vhere the te	eacher works full time and			nces - Novi Sad		
	ng date:				06.09.2001				
Scier	ntific or art f	ield:		ŕ	Metrology, Quality, Fixtures and Ecological-Engineering Aspects				
Acad	emic caries	er	Year	Institution	Field				
Acad	emic title e	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	italization I	Methods		(F10) Eng Studies	ineering Animation, Undergraduate Academic		
2.	P1401	Fixture	e Design an	d Measuring Machines		(P00) Proc Studies	duction Engineering, Undergraduate Academic		
						(P00) Prod Studies	duction Engineering, Undergraduate Academic		
3.	P1508	Revers	se Enginee	ring and CAQ			tware Engineering and Information Technologies, uate Academic Studies		
							tware Engineering and Information Technologies - ndergraduate Academic Studies		
						(M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies			
4.	P209	Measu	irements ar	nd Quality		(P00) Production Engineering, Undergraduate Academic Studies			
5.	P306	Fixture	es			(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	Z207	Mecha	inical Engin	neering 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			ety at Work, Undergraduate Academic Studies ronmental Engineering, Undergraduate Academic		
9.	Z416	EMS S	Systems			(Z20) Environmental Engineering, Undergraduate Academ Studies			
10.	ZRI441	Materi protec		systems for environmenta	al and labor	(Z01) Safe	ety at Work, Undergraduate Academic Studies		
11.	Z416	EMS s	istemi(unet	i naziv na engleskom)		(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic		
12.	BM119D	Revers engine		ring and rapid prototyping	in biomedical	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
13.	P322	Introdu	uction to Pro	ecision Engineering		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	Systems and CAI		<u>, </u>	duction Engineering, Master Academic Studies		
16.	P1501	Ecological Technologies and Systems				Academic			
		_ ·				<u>, ,</u>	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		chatronics, Master Academic Studies duction Engineering, Master Academic Studies		
19.	P321	Revers	se Enginee	ring and Rapid Prototyping	g	(110) Indus	strial Engineering, Master Academic Studies		
20.	PIP16	Plastic	s and envir	ronmental protection		(PM0) Pro	duction Engineering, Master Academic Studies		



ID

21

22

23.

24

25

26

27

28

29

30.

31.

PLIS1

PP103

SZSP18

DM411

DP001

DP006

DP013

DP019

ZDH1

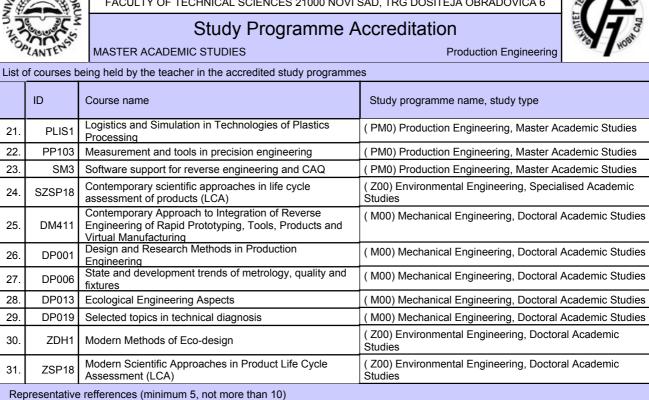
ZSP18

fixtures

SM3

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

MASTER ACADEMIC STUDIES



Budak I., Vukelić D., 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- shaped elements, International Journal of Precision Engineering and Manufacturing, 2012, Vol. 13, No 10, pp. 1725-1735, ISSN 2234-7593
3.	Kosec G., Nagode A., Budak I., Antić A., Kosec B.: Failure of the pinion from the drive of a cement mill, Engineering Failure Analysis, 2011, Vol. 18, pp. 450-454, ISSN 1350-6307
4.	Budak I., Soković M., Barišić B.: Accuracy improvement of point data reduction with sampling-based methods by Fuzzy logic- based decision-making, MEASUREMENT, 2011, Vol. 44, No 6, pp. 1188-1200, ISSN 0263-2241
5.	Budak I., Hodolič J., Soković M.: Development of a programme system for data-point pre-processing in Reverse Engineering, Journal of Materials Processing Technology, 2005, Vol. 162, pp. 730-735, ISSN 0924-0136

Jevremović D., Puškar T., Budak I., Vukelić Đ., Kojić V., Eggbeer D., Williams R.: An RE/RM approach to the design and 6. manufacture of removable partial dentures with a biocompatibility analysis of the F75 Co-Cr SLM alloy, Materijali in tehnologije, 2012, Vol. 46, No 2, pp. 123-129, ISSN 1580-2949

Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM 7 in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871

Agarski B., Kljajin M., Budak I., Tadić B., Vukelić Đ., Bosak M., Hodolič J.: Application of multi-criteria assessment in evaluation of 8 motor vehicles' environmental performances, Tehnički vjesnik/Technical Gazette, 2012, Vol. 19, No 2, pp. 221-226, ISSN 1330-3651 Vukelić Đ., Miljanić D., Ranđelović S., Budak I., Džunić D., Erić M., Pantić M.: Burnishing process based on optimal depth of 9 workpiece penetration (Article in press, date of acceptance 28.08.2012, Manuscript Number: MIT-45-2012), Materijali in tehnologije, 2012, ISSN 1580-2949 Vukelić Đ., Tadić B., Miljanić D., Budak I., Todorović P., Ranđelović S., Jeremić B.: Novel workpiece clamping method for

10 increased machining performance, Tehnički vjesnik-Technical Gazette, 2012, Vol. 19, No 4, pp. 837-846, ISSN 1330-3651. Summary data for teacher's scientific or art and professional activity: Quotation total 25 Total of SCI(SSCI) list papers : 20 Current projects Domestic 4 International : 7



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

A REAL PROPERTY OF

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Science, arts and professional qualifications

Name and last name: Dejanović R.						laor		
Academic title: Assistant Pro						-		
						chnical Sciences - Novi Sad		
starting date: 16.10.2000								
Scier	Scientific or art field: Applied Com						ce and Informatics	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	lection:	2012				Applied Computer Science and Informatics	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Computer Science	
Magi	ster thesis		2008	Faculty of Technical Sci	ences - Novi S	ad	Computer Science	
Bach	elor's thesis	S	2000	Faculty of Technical Sci	ences - Novi S	ad	Applied Computer Science and Informatics	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
1.	E235	Funda Engine		Information Systems and	Software	(F10) Eng Studies	ineering Animation, Undergraduate Academic	
		JJ					asurement and Control Engineering, luate Academic Studies	
2	F2640	0 Software Patterns and Components				(E20) Computing and Control Engineering, Undergraduate Academic Studies		
2.	E2S40					(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
3.	ISIT08	Object	t oriented p	rogramming fundamentals	3	(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
4.	ISIT26	Upravljanje projektima				(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
5.	ISIT27	Osnove softverskih arhitektura				(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
6.	ISIT36	Software Development Tools				(SII) Software and Information Technologies (Inđija), Undergraduate Professional Studies		
7.	ISIT3A	Metod	ologije i sist	temi za upravljanje IT rest	ursima		vare and Information Technologies (Inđija), luate Professional Studies	
8.	ISIT48	Tehnologije i sistemi za podršku korisnicima					vare and Information Technologies (Inđija), luate Professional Studies	
9.	SES202	02 Model Driven Software Development				tware Engineering and Information Technologies, luate Academic Studies		
0.	020202	Model Driven Software Development					tware Engineering and Information Technologies - ndergraduate Academic Studies	
10.	SES204	SES204 Advanced Programming Tecnics				tware Engineering and Information Technologies, luate Academic Studies		
10.	020204	/ avan					tware Engineering and Information Technologies - ndergraduate Academic Studies	
11.	SES40	SES40 Software patterns and components			(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
	0-040	Conwe	a patiento				tware Engineering and Information Technologies - ndergraduate Academic Studies	
	E2510					(E20) Con Academic	nputing and Control Engineering, Master Studies	
						(F20) Engineering Animation, Master Academic Studies		
12.		E2510 Software Configuration Management		ration Management		(SE0) Software Engineering and Information Technologies, Master Academic Studies		
						(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

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

	ID	Course name		Study program	me name, study type			
				(E20) Computing and Control Engineering, Master Academic Studies				
				(MR0) Measure Academic Studie	ment and Control Engineerines	ng, Master		
13.	E2519	Domain-Specific Languages		(PM0) Productio	on Engineering, Master Acad	lemic Studies		
				(SE0) Software Master Academi	e Engineering and Information Technologies nic Studies			
				(E10) Power, Electronic and Telecommunic Engineering, Master Academic Studies		ation		
14.	DRNI12	Selected Topics in Contemporary So Methods	oftware Development	(E20) Computin Academic Studie	g and Control Engineering, es	Doctoral		
		Methods		(F20) Engineeri	ng Animation, Doctoral Acad	lemic Studies		
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.	Gordana 11-14 ma	Milosavljević, Igor Dejanović, Branko art, 2007	Perišić: Brz razvoj ada	aptivnih poslovnih	i informacionih sistema, Yu	Info, Kopaonik:		
2.	*****Dojanović L. Boričić R. Milosovljović G.: Implementacija XTovt DSL a uz oslanac na arporatje parsor. VI Linfa 2011 (CD) 6							
3.	Dejanović I., Tumbas Živanov M., Milosavljević G., Perišić B.: Comparison of Textual and Visual Notations of DOMMLite Domain- Specific Language, 14. Advances in Databases and Information Systems, Novi Sad, 20-24 Septembar, 2010, pp. 20-24							
4.	Milosavliević G. Dejanović I. Peričić B. Milosavliević B. LIMI. Profile for Specifying Liser Interfaces of Business Applications							
5.	*****Milosavljević G., Dejanović I., Perišić B.: Ready for the industry: A practical approach to teaching mde. In 7th Educators							
6.	Dejanovi	ć I., Perišić B., Milosavljević G.: Arpe	ggio: pakrat parser inte	erpreter, 16. YU II	NFO, Kopaonik, 1-8 Mart, 20)10		
7.	Dojapović L. Milosovijović C. Tumbas Živapov M. Poričić P.: Primona savromonih tehnika razvoja seftvora u izradi studentskih							
8.	Dejanović I. Milosavljević G. Peričić B. Uporedni prikaz dva popularna MDSD/MDA alata otvorenog koda 13. VI UNEO							
9.	Perišić B., Milosavljević G., Dejanović I., Milosavljević B.: UML Profile for Specifying User Interfaces of Business Applications, Computer Science and Information Systems (ComSIS), 2011, Vol. 8, No 2, pp. 405-426, ISSN 1820-0214							
10.	Dejanović I., Milosavljević G., Tumbas Živanov M., Perišić B.: A Domain-Specific Language for Defining Static Structure of Database Applications, Computer Science and Information Systems (ComSIS), 2010, Vol. 7, No 3, pp. 409-440, ISSN 1820-0214							
Sur	Summary data for teacher's scientific or art and professional activity:							
	ation total :		0					
Total of SCI(SSCI) list papers : 0								
Curre	ent projects	:	Domestic :	0	International :	0		



State State

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Science, arts and professional qualifications

Name and last name:					Gerić D. Katarina			
Academic title:					Full Professor			
						aculty of Technical Sciences - Novi Sad		
Scientific or art field:					02.12.1976 Material Science and Engineering Materials			
	lemic carie		Year	Institution	material eelo		Field	
	lemic title el		2008	Faculty of Technical Sci	ences - Novi S	ad	Material Science and Engineering Materials	
	thesis	000011.	1997	Faculty of Technology a			Material Science and Engineering Materials	
	ster thesis		1985	Faculty of Technology a			Material Science and Engineering Materials	
	elor's thesis	5	1974	Faculty of Technology a				
			Id by the te	acher in the accredited stu		-		
						1		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	H106	Materia	als in Mech	anical Engineering		(H00) Meo	chatronics, Undergraduate Academic Studies	
							chanization and Construction Engineering, luate Academic Studies	
						(M30) Ene Academic	ergy and Process Engineering, Undergraduate Studies	
2.	M105	Mecha	anical Mater	ials		(M40) Teo	chnical Mechanics and Technical Design, luate Academic Studies	
						(MR0) Me	asurement and Control Engineering, uate Academic Studies	
						(P00)Pro Studies	duction Engineering, Undergraduate Academic	
3.	P2412	Conter	mporary Ma	terials		(P00) Production Engineering, Undergraduate Academic Studies		
4.	P3401	Characteristics and Application of Plastic Materials			laterials	(P00) Production Engineering, Undergraduate Academic Studies		
5.	ZC003	Electromechanical materials				(MR0) Measurement and Control Engineering, Undergraduate Academic Studies		
0.	20000					(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
6.	ZRI42A	A Safety at work in metallurgy and thermochemical treatment of metal			emical		ety at Work, Undergraduate Academic Studies	
7.	P2502						oduction Engineering, Master Academic Studies	
8.	PTS01		ology of sin			·	oduction Engineering, Master Academic Studies	
9.	DM214			s in Working Strength		<u>, </u>	chanical Engineering, Doctoral Academic Studies	
10.			eering Mate			<u>, </u>	chanical Engineering, Doctoral Academic Studies	
11.	SAP004		re Mechani				chanical Engineering, Doctoral Academic Studies	
Rep			``	num 5, not more than 10)				
1.	alloys, Ma	aterials	and Design	, 2013, Vol. 44, pp. 303-3	10, ISSN: 0261	1-3069.	:: Notch fracture toughness of high-strength Al	
2.	Cvijovic Z, Vratnica M, Geric K: Fractographic analysis of fatigue damage in 7000 aluminium alloys, Journal of Microscopy, Vol 232, 2008, pp. 589-594							
3.	Stasevic, M., Maksimovic, S., Geric, K., Burzic, Z., Vasovic, I.: Fatigue crack propagation models: Numerical and experimental comparisons, Technics Technologies Education Management - TTEM, 2012, Vol. 7, No. 2, pp. 801-810, ISSN: 1840-1503.							
4.	Stašević, M., Maksimović, S., Gerić, K., Burzić, Z., Maksimović, M.: Fatigue crack growth prediction from low cycle fatigue properties, Strojarstvo, 2011, Vol. 53, No. 3, pp. 171-178, ISSN: 0562-1887.							
5.	Vratnica M, Cvijovic Z, Geric K, The role of Intermetallic Phases in Fatigue Crack Propagation Behavior of Al-Zn-Mg-Cu alloy, Material Science Forum vol. 555, 2007, pp 553-558							
6.	Gerić K., Sedmak S., Glavardanov I. : Fracture mechanics parameters of heat affected zone of high strength microalloyed steel, Metallurgy and new materials researches. Vol.II, No.1-2, 1994, 114-125							
7.	Sedmak S., Gerić K.: Evaluation of crack significance in velded joint by fracture mechanic approach, Kovine, zlitine tehnologije1-2, 32, 1998, 21-27							
8.	Gerić K, Glavardanov I, Sedmak S.: Relability and Structural integrity of advanced materials, deo J integral and Final Strech zone for crack in HSLAof Undermatched and Overmatched weldments, EMAS Publication LTD, pp. 996-1005							
9.	. Gerić K.: Prsline u zavarenom spoju, monografija, Fakultet tehničkih nauka, Novi Sad, 2005.						i Sad, 2005.	

HAS STUDIORUM		UNIVERSITY OF NOVI SAD							
		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
		Study F	Con Land						
<i>`</i> 0'	PLANTER	MASTER ACADEMIC STUDIES			Production Engineering	e Hoo			
Representative refferences (minimum 5, not more than 10)									
10.	10. Gerić K.: Fractographic Analysis, part of monograph "From fracture mechanics to structural integrity assessment", 8. Internati fracture mechanics summer-school, Belgrade 2004, pp. 147-158								
Summary data for teacher's scientific or art and professional activity:									
Quotation total :			2						
Tota	I of SCI(SSCI) list papers :	5						
Curr	ent projects :		Domestic :	2	International :	0			



Service Service

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Science, arts and professional qualifications

New									
Name and last name:					Gostimirović P. Marin				
Academic title:				a sha a su su sha ƙ 🛙 🖓	Full Professor				
Name of the institution where the teacher works full time and starting date:									
Scientific or art field:					12.10.1982 Processes for Material Removal Processing				
	emic caries		Year	Institution			Field		
	emic title el		2011	Faculty of Technical Sci	ences - Novi S	ad	Processes for Material Removal Processing		
	thesis		1997	Faculty of Technical Sci			Processes for Material Removal Processing		
Magi	ster thesis		1989	Faculty of Technical Sci					
	elor's thesis	5	1982	Faculty of Technical Sci	ences - Novi S	ad	Processes for Material Removal Processing		
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study programme name, study type			
1.	P1406	Theory	y of Machini	ing Processes		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
2.	P1408	Proces	ss Database	28		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
3.	P1507	Inovat	ional Techn	ologies		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P208	Techn	ology for Cu	utting Processing		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
5.	P305	Nonco	nventional	Procedures in Processing		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	P4410	Desigr	n and Produ	ict Functionality		(P00) Production Engineering, Undergraduate Academic Studies			
7.	M2061	Basics	of Manufac	cturing Technologies 1		 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 			
8.	P316A	Technology for Microcutting Processes				(P00)Proo Studies	duction Engineering, Undergraduate Academic		
9.	P1505	Modelling and Simulation in Processing				(PM0)Pro	duction Engineering, Master Academic Studies		
10.	P1509	3,				(PM0)Pro	duction Engineering, Master Academic Studies		
11.	P3502	Mold and die machining technology				(PM0)Pro	duction Engineering, Master Academic Studies		
12.	P4410A					(PM0)Pro	duction Engineering, Master Academic Studies		
13.	PP101		-	Processes		, ,	PM0) Production Engineering, Master Academic Studies		
14.	DP001	Desigr		arch Methods in Productic	лт 	(M00) Me	chanical Engineering, Doctoral Academic Studies		
15.	DP002	State a	and Trend ii	n Forming by Material Rer		(M00) Me	chanical Engineering, Doctoral Academic Studies		
16.	DP009	Remov	val	ce Application in Forming	•	· · ·	chanical Engineering, Doctoral Academic Studies		
17.	DP020	Formir	ng Processe			· · ·	chanical Engineering, Doctoral Academic Studies		
18.	DP021	21 Selected Chapters in Micro and Nano Forming by Material Removal (M00) Mechanical Engineering, Doctoral Academic Studies					chanical Engineering, Doctoral Academic Studies		
Rep				num 5, not more than 10)					
1.	1. Gostimirović M., Milikić D.: Upravljanje toplotnim pojavama pri obradi brušenjem, Monografija, Fakultet tehničkih nauka, Novi Sad, 2002.								
2.	D. Milikić, M. Gostimirović, M. Sekulić: Osnove tehnologije obrade rezanjem, Fakultet tehničkih nauka, Novi Sad, 2008.								
3.	Gostimirović M., Sekulić M., Kopač J., Kovač P.: Optimal control of workpiece thermal state in creep-feed grinding using inverse heat conduction analysis, Strojniški vestnik – Journal of Mechanical Engineering, DOI: 10.5545/sv-jme.2010.075, Slovenia, Vol 57(2011), No. 10, 2011., pp. 730-738								
4.	Gostimirović M., Kovač P., Sekulić M.: An inverse heat transfer problem for optimization of the thermal process in machining, Sadhana-Academy Proceedings in Engineering Sciences, Vol 36(2011), Part 4, India, 2011., DOI: 10.1007/s12046-011-0034-4, pp. 489-504, ISSN 0256-2499								
5.	5. Gostimirović M., Kovač P., Ješić D., Škorić B., Savković B.: Surface layer properties of the workpiece material in high performance grinding, Metalurgija, Croatia, Vol. 51, No 1, 2012, pp. 105-108								

4	TAS STUR		UNIVERSITY OF NO	VI SAD		HAKHX H			
ALL DOR		FACULTY OF TECHNICAL SCI	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6						
0.2		Study F	Study Programme Accreditation						
6	LANTEN	MASTER ACADEMIC STUDIES			Production Engineering	ADD HOD			
Rep	presentative re	efferences (minimum 5, not more th	an 10)						
6.	 Kovač P., Rodić D., Pucovsky V., Savković B., Gostimirović M.: Application of fuzzi logic and regression analysis for modeling surface roughness in face milling, Journal of Intelligent Manufacturing, 2012, ISSN 0956-5515, UDK: DOI 10.1007/s10845-012- 0623-z 								
7.		ć M., Kovač P., Sekulić M., Škorić E Science and Technology, DOI: 10.							
8.		ć M., Kovač P., Škorić B., Sekulić M nal of Engineering and Materials Sc				nce in EDM,			
9.	Gostimirovi	ć M.: Nekonvencionalni postupci ob	rade, Fakultet tehničk	ih nauka, Novi Sa	ad, 2012.				
10.	Sekulić M., Kovač P., Gostimirović M.: Drilling cuting forces monitoring using virtual instrumentation, Central Europen Exchange Program for University Studies, Cracow University of Technology, Technical University of Košice, 2009, str. 31-36, ISBN 978-83- 7242-509-6								
Sur	mmary data fo	r teacher's scientific or art and profe	essional activity:						
Quot	tation total :		5						
Tota	l of SCI(SSCI)	list papers :	12						
Curre	ent projects :		Domestic :	1	International :	3			



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

Contraction of the second

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Name and last name:					Hadžistević J. Miodrag			
	emic title:				Associate Professor			
		itution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
	ng date:				01.02.1993			
Scier	ntific or art f	ield:			Metrology, Quality, Fixtures and Ecological-Engineering Aspects			
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2010	Faculty of Technical Science	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
PhD	thesis		2004	Faculty of Technical Science	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Magi	ster thesis		1999	Faculty of Technical Science	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Bach	elor's thesis	S	1992	Faculty of Technical Sci	ences - Novi S	ad	Cutting Processing Tools and Tribology	
List c	f courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	P1401	Fixture	e Design an	d Measuring Machines		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
						(P00) Pro Studies	duction Engineering, Undergraduate Academic	
2.	P1508	Revers	se Enginee	ring and CAQ			tware Engineering and Information Technologies, luate Academic Studies	
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
3.	P209	Moasu	irements ar				chnical Mechanics and Technical Design, luate Academic Studies	
5.	F209	MEasu	irements ai	lu Quality		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
4.	P306	Fixture	es			(P00) Pro Studies	duction Engineering, Undergraduate Academic	
5.	URZP15	Work s	safety durin	g interventions		(ZP0) Disaster Risk Management and Fire Safety, Undergraduate Academic Studies		
6.	Z207	Mecha	inical Engin	neering in Environmental E	Ingineering	(Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	Z207A	Mecha	nical Engin	neering in Environmental E	Ingineering	(Z01) Safety at Work, Undergraduate Academic Studies		
						(Z01) Safety at Work, Undergraduate Academic Studies		
8.	Z301	Polluti	on Measure	ement and Control		(Z20) Environmental Engineering, Undergraduate Academ Studies		
9.	Z416	EMS S	Systems			(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
10.	ZR101	Introdu	uction and F	Principles of Occupational	Safety	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
11.	ZR404	Occup	ational Safe	ety Systems, Means and E	Equipment	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
12.	Z207		stvo u inžer na englesko	njerstvu zaštite životne sre om)	dine(uneti	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
13.	Z416	EMS s	istemi(unet	ti naziv na engleskom)		(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
14.	IM1714		uction and p and safety	principles of occupational of	occupational	(I20) Engir Studies	neering Management, Undergraduate Academic	
15.	ZC036	Measu	irement and	d control of pollution		(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
16.	P1409	Materi	al Control S	Systems and CAI		(PM0)Pro	oduction Engineering, Master Academic Studies	
17.	P1501	Ecoloc	gical Techno	ologies and Systems		(M40) Technical Mechanics and Technical Design, Mas Academic Studies		
						(PM0) Production Engineering, Master Academic Studies		
18.	Z416A	Environment Protection System Management			ent	(PM0) Production Engineering, Master Academic Studies		
19.	Z452		n and maint nmental en	enance of quality control i gineering	n	(M40) Teo Academic	chnical Mechanics and Technical Design, Master Studies	



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

Study Programme Accreditation

2	Study Programme Accreditation								
, Ot	LANTEN	MASTER ACADEMIC STUDIES	Production Engineering						
List c	of courses b	eing held by the teacher in the accredited study programme	25						
	ID	Course name	Study programme name, study type						
20.	PLIS1	Logistics and Simulation in Technologies of Plastics Processing	(PM0) Production Engineering, Master Academic Studies						
21.	PP103	Measurement and tools in precision engineering	(PM0) Production Engineering, Master Academic Studies						
22.	SDOM3 0	Probability, Statistics and Theory of Engineering Experiment	(Z00) Environmental Engineering, Specialised Academic Studies						
23.	SM3	Software support for reverse engineering and CAQ	(PM0) Production Engineering, Master Academic Studies						
24.	SZSP18	Contemporary scientific approaches in life cycle assessment of products (LCA)	(Z00) Environmental Engineering, Specialised Academic Studies						
25.	ZCM09	Occupational Health and Safety	(ZC0) Clean Energy Technologies, Master Academic Studies						
26.	ZR406A	System Regulations and EU Practice in Occupational Health and Safety	(Z01) Safety at Work, Master Academic Studies						
27.	DOM30	 Probability, Statistics and Theory of Engineering Experiment Probability, Statistics and Theory of Engineering Experiment (M00) Mechanical Engineering, Doctoral Academic Studies (M40) Technical Mechanics, Doctoral Academic Studies (Z00) Environmental Engineering, Doctoral Academic Studies (Z01) Safety at Work, Doctoral Academic Studies 							
28.	DP001	Design and Research Methods in Production Engineering	(M00) Mechanical Engineering, Doctoral Academic Studies						
29.	DP006	State and development trends of metrology, quality and fixtures	(M00) Mechanical Engineering, Doctoral Academic Studies						
30.	DP013	Ecological Engineering Aspects	(M00) Mechanical Engineering, Doctoral Academic Studies						
31.	DP019	Selected topics in technical diagnosis	(M00) Mechanical Engineering, Doctoral Academic Studies						
32.	ZSP18	Modern Scientific Approaches in Product Life Cycle Assessment (LCA)	(Z00) Environmental Engineering, Doctoral Academic Studies						
33.	ZRD211	Sustainable design and product safety	(Z01) Safety at Work, Doctoral Academic Studies						
34.	ZRD213	Current state and development tendencies of quality management of work environment	(Z01) Safety at Work, Doctoral Academic Studies						
35.	ZRD235	Systemic regulation in the field of occupational safety and health	(Z01) Safety at Work, Doctoral Academic Studies						
Rep	oresentative	refferences (minimum 5, not more than 10)							
1.		ładžistević M., Hodolič J., Vukelić Đ., Lukić D.: A CAD/CAI International Journal of Advanced Manufacturing Technolc							
2.	Dimensio	Tasić T., Drštvenček I., Valentan B., Hadžistević M., Poga nal Optical Scanning in Complex Geometrical Inspection, S lo 11, pp. 826-833, ISSN 0039-2480	čar V., Balić J., Ačko B.: Possibilities of Using Three- trojniski vestnik = Journal of Mechanical Engineering, 2011,						
3.	main cutti	I., Jurković Z., Hadžistević M., Gostimirović M.: The influen ng force in face milling, Metalurgija, 2010, Vol. 49, No 4, pp 5:620.171.70/178:620.18 = 111							
4.		., Hadžistević M., Drstvenšek I., Radaković N.: Application Strojniski vestnik = Journal of Mechanical Engineering, 207	of Group Technology in Complex Cluster type Organizational 10, Vol. 56, No 10, pp. 663-675, ISSN 0039-2480						

Radlovački V., Kamberović B., Delić M., Hadžistević M., Pečujlija M.: ARE QUALITY MANAGEMENT SYSTEM AND INFORMATION TECHNOLOGIES MANAGEMENT TOOLS - ESTIMATES OF SERBIAN QUALITY MANAGERS, 5 INTERNATIONAL JOURNAL ADVANCED QUALITY, 2012, Vol. 40, No 1, pp. 33-36, ISSN 2217-8155, UDK: 658.5 Stević, M.: Povećanje tačnosti merenja numerički upravljanih mernih mašina, edicija tehničke nauke - monografija, FTN 6 izdavaštvo, ISBN 86-7892-028-9, Novi Sad, 2006. Hadžistević M., Morača S.: Networks and Quality Improvement, International Journal for Quality Research, 2009, Vol. 3, No 4, pp. 7 353-361, ISSN 1800-6450 Lomen, I., Cvetićanin, L., Hodolič, J., Stević, M.: Softwarova aplikacia na určenie hladiny hluku v priemyselnych podnikoch, 8 Časopis Acta Mechanica Slovaca, 2/2002, Ročnik 6., pp. 165-168, Košice, Slovačka, 2002. Hodolič J., Budak I., Vukelić Đ., Agarski B., Hadžistević M.: Less Formal Tools for Environmental Management in Production 9 Industry, 2. International Symposium on Environmental and Material Flow Management - EMFM, Zenica: Faculty of Mechanical Engineering in Zenica, University of Zenica, 7-9 Jun, 2012, pp. 1-15, ISBN 978-9958-617-46-1 Agarski B., Budak I., Puškar T., Vukelić Đ., Marković D., Hadžistević M., Hodolič J.: Multi-criteria assessment of environmental

 Agarski B., Budak I., Puskar I., Vukelic D., Markovic D., Hadzistevic M., Hodolic J.: Multi-criteria assessment of environmental and occupational safety measures in dental prosthetics laboratories, Journal of Production Engineering, 2012, Vol. 15, No 1, pp. 53-56, ISSN 1821-4932

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

 Quotation total :
 20

 Total of SCI(SSCI) list papers :
 9



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

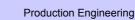
Nom	Name and last name: Herakovič S. Niko								
-	e and last n	ame.			Guest Professor				
		itution	where the to	eacher works full time and					
	ng date:				01.01.2007				
	ntific or art f	ield:				, Robotics a	nd Automation and Integral Systems		
Acad	emic cariee	er	Year	Institution			Field		
Acad	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	6	1988	University of Ljubljana -	Ljubljana		Mechanization and Constructional 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.	EOS19	Disma	ntling and r	ecycling technologies			ver Engineering - Renewble Sources of Electrical Indergraduate Professional Studies		
2.	H105			Computer science		(H00) Med	chatronics, Undergraduate Academic Studies		
3.	H1410	Progra contro		application of programma	able logic	(H00) Med	chatronics, Undergraduate Academic Studies		
4.	BMI106			vices and systems		(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
5.	IM1116	Work Study and Ergonomics				(110) Industrial Engineering, Undergraduate Academic Studies			
				-		Studies			
6.	IMDS56				ion and		strial Engineering, Specialised Academic Studies		
7.	IMDS57	Strategic Planning and Designing Procedure Systems at the End of Product Lifecycle			es anu	(112) Indus	strial Engineering, Specialised Academic Studies		
8.	IMDS93	Virtual	Enterprise	s and Collaborative Syste	ms	(I22) Engineering Management, Specialised Academic Studies			
9.	H799	Fieldb	uses and pi	rotocols		(H00) Mechatronics, Master Academic Studies			
10.	H828	Advan	ced robotic	S		(H00) Mechatronics, Master Academic Studies			
11.	1907	Autom	ated Assen	nbly Systems for High Acc	curacy	l` /	chatronics, Master Academic Studies		
						(PM0) Production Engineering, Master Academic Studies			
12.	IIDS6	Select	ed chapters	s in automation		(112) Industrial Engineering, Specialised Academic Studie			
10	1140400	Manuf	acturing str	ategy (KAIZEN, LEAN, KA	ANBAN,		strial Engineering, Master Academic Studies		
13.	IM2102	EFPS))	, <u> </u>	,	(M50) Energy Management, Master Academic Studies			
						(I20) Engineering Management, Master Academic Studies			
14.	IM2124	Produ	ction and Se	ervice Systems		· /	chatronics, Master Academic Studies ergy Management, Master Academic Studies		
15.	IMDR56	Tracea	ability of Pro	oduct Lifecycle		(I20) Indu	strial Engineering / Engineering Management, cademic Studies		
16.	IMDR93	Virtual	Enterprise	s and Collaborative Syste	ms	(120) Indu	strial Engineering / Engineering Management, cademic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)					
1.	Representative refferences (minimum 5, not more than 10) 1. Simic, M.a, Herakovic, N.a, Juschka, K.b, Pätzold, M.b, Flow characteristic curves for valve simulation: Using the hydraulically axial-notched longitudinal slide valves as example [Durchflusskennlinien für die ventilsimulation - Am Beispiel axialgekerbter hydraulischer Längsschieberventile], Olhydraulik und Pneumatik, Volume 56, Issue 3, March 2012, Pages 27-31, ISSN: 03412660								
2.	DEBEVEC, Mihael, HERAKOVIČ Niko. Management Of Resources In Small And Medium-Sized Production Enterprises. Iranian								
3.	HERAKOVIČ, Niko, BEVK, Tomaž. Analysis of the material and the actuator influence on the characteristics of a pneumatic valve								

1-22									
RSI	TAS STUD		UNIVERSITY OF NO	VISAD		HHMYKMX Hay			
AN A	AR	FACULTY OF TECHNICAL SCI	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6						
D. NE		Study F	on	and the state					
54	LANTER	MASTER ACADEMIC STUDIES			Production Engineering	Ho			
Rep	presentative r	efferences (minimum 5, not more th	an 10)						
4.	MERWE, Jacob D. van der, MINARIK, Martin, BEROVIČ, Marin, HERAKOVIČ, Niko. Heat transfer in citric acid production with axial and radial flow impellers. Acta chim. slov [Tiskana izd.], 2010, vol. 57, no. 1, str. 150-156. http://acta.chemsoc.si/57/57-1- 150.pdf. [COBISS.SI-ID 33809925]								
5.	HERAKOVIČ, Niko, ŠIMIC, Marko, TRDIČ, Francelj, SKVARČ, Jure. A machine-vision system for automated quality control of welded rings. Mach. vis. appl., 2010, 15 str., doi: 10.1007/s00138-010-0293-9. ISSN 0932-8092. [COBISS.SI-ID 11512091], [JCR], 126/245								
6.	HERAKOVIČ, Niko. Flow-force analysis in a hydraulic sliding-spool valve. Strojarstvo, 2007, letn. 49, št. 3, str. 117-126. [COBISS.SI-ID 10449691]								
7.	Stroj. vestn	IČ, Niko. Računalniški in strojni vid ., 2007, letn. 53, št. 12, str. 858-873 [JCR, WoS], 100/107			machine vision in robot-bas	ed assembly.			
8.		IČ, Niko, NOE, Dragica. Analiza del f pilot-stage piezo-actuator valves. S							
9.	Bogoeva-Gaceva, G., Dimeski, D., Heraković, N., Effect of sonication applied during production of carbon fiber/epoxy resin								
10.	HERAKOVIČ, Niko, DUHOVNIK, Jože, NOE, Dragica. Sila trenja v pnevmatičnem valju = Friction force in the pneumatic cylinder. Stroj. vestn., oktdec. 1992, let. 38, št. 10/12, str. 279-288, ilustr. [COBISS.SI-ID 62843136]								
Sur	Summary data for teacher's scientific or art and professional activity:								
Quot	ation total :		11						
	of SCI(SSCI) list papers :	13						
Curre	ent projects :		Domestic :	1	International :	3			



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Nam	Name and last name:				Hodolič J. Janko			
Acad	lemic title:				Full Professo	r		
		titution v	vhere the te	eacher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad	
starti	ng date:				06.12.1974			
Scier	ntific or art f	ield:		1	Metrology, Quality, Fixtures and Ecological-Engineering Aspects			
Acad	lemic caries	er	Year	Institution			Field	
Acad	lemic title e	lection:	1997	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
PhD	thesis		1989	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
Magi	ster thesis		1979	Faculty of Technical Sci	ences - Novi S	ad	Mechanical Engineering	
Bach	elor's thesis	S	1974	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	ogramme name, study type	
1.	IA018	3D Dig	italization N	Methods		(F10) Eng Studies	ineering Animation, Undergraduate Academic	
2.	P1401	Fixture	e Design an	d Measuring Machines		(P00) Proo Studies	duction Engineering, Undergraduate Academic	
3.	P1508	Revers	se Enginee	ring and CAQ		Studies (SE0) Sof	duction Engineering, Undergraduate Academic tware Engineering and Information Technologies,	
			0	0		Undergraduate Academic Studies (SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
4.	P209	Magau	iromonto or			(M40) Tec	chnical Mechanics and Technical Design, uate Academic Studies	
4.	F209	weasu	irements ar			(P00)Proo Studies	duction Engineering, Undergraduate Academic	
5.	P2617	Planni	ng Methods	and Experiment Process	sing	(P00)Proo Studies	duction Engineering, Undergraduate Academic	
6.	P306	Fixture	es			(P00)Proo Studies	duction Engineering, Undergraduate Academic	
7.	Z207	Mecha	inical Engin	eering in Environmental E	Engineering	(Z20) Environmental Engineering, Undergraduate Academic Studies		
8.	Z207A	Mecha	inical Engin	eering in Environmental E	Engineering	(Z01) Safety at Work, Undergraduate Academic Studies		
9.	Z301	Polluti	on Measure	ement and Control			ety at Work, Undergraduate Academic Studies ronmental Engineering, Undergraduate Academic	
10.	Z416	EMS S	Systems			(Z20) Environmental Engineering, Undergraduate Academic Studies		
11.	ZR320	Experi Workp		lysys of Safety and Health	h on	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
12.	ZRI441	Materia	al handling	systems for environmenta	al and labor	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
13.	Z207		stvo u inžer na englesko	njerstvu zaštite životne sre om)	edine(uneti	(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
14.	Z416	EMS s	istemi(unet	i naziv na engleskom)		(Z20) Envi Studies	ronmental Engineering, Undergraduate Academic	
15.	ZC036	Measu	irement and	d control of pollution		(ZC0) Clea Academic	an Energy Technologies, Undergraduate Studies	
16.	P1409	Materi	al Control S	Systems and CAI		(PM0)Pro	duction Engineering, Master Academic Studies	
17.	P1501	Ecolog	gical Techno	ologies and Systems		(M40) Tec Academic	chnical Mechanics and Technical Design, Master Studies	
						(PM0)Pro	oduction Engineering, Master Academic Studies	
18.	P3501	Tool Designing for Plastic				(PM0) Production Engineering, Master Academic Studies		
19.	Z416A	Environment Protection System Manageme			ent	(PM0) Production Engineering, Master Academic Studies		
20.	PIP16	Plastics and environmental protection Logistics and Simulation in Technologies of Plas				(PM0) Production Engineering, Master Academic Studies		
21.	PLIS1	Logisti Proces		ulation in Technologies of	Plastics	(PM0)Pro	duction Engineering, Master Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

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

List of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study program	me name, study type			
22.	SDOM3 0	Probability, Statistics and Theory of Experiment	Engineering	(Z00) Environm Studies	ental Engineering, Specialis	sed Academic		
23.	SZDH1	Modern Methods of Eco-design		(Z00) Environm Studies	ental Engineering, Specialis	sed Academic		
24.	SZSP18	Contemporary scientific approaches assessment of products (LCA)	in life cycle	(Z00) Environm Studies	ental Engineering, Specialis	sed Academic		
25.	DM411	Contemporary Approach to Integrati Engineering of Rapid Prototyping, T Virtual Manufacturing		(M00) Mechani	cal Engineering, Doctoral A	cademic Studies		
26.	DOM30	Probability, Statistics and Theory of Experiment	Engineering	(M40) Technica (Z00) Environm Studies	cal Engineering, Doctoral Ad Il Mechanics, Doctoral Acad ental Engineering, Doctoral Work, Doctoral Academic S	lemic Studies Academic		
27.	DP001	Design and Research Methods in Pr	roduction	(M00) Mechani	cal Engineering, Doctoral A	cademic Studies		
28.	DP006	Engineering State and development trends of me fixtures	etrology, quality and	(M00) Mechani	cal Engineering, Doctoral A	cademic Studies		
29.	DP013	Ecological Engineering Aspects		(M00) Mechani	cal Engineering, Doctoral A	cademic Studies		
30.	ZDH1	Modern Methods of Eco-design (Z0			(Z00) Environmental Engineering, Doctoral Academic Studies			
31.	ZSP18	18 Modern Scientific Approaches in Product Life Cycle Assessment (LCA) (Z00) Environmental Engineering, Doctoral Academic Studies						
Re	oresentative	refferences (minimum 5, not more th	an 10)					
1.		Vukelić Đ., Bračun D., Hodolič J., So Sensors, 2012, Vol. 12, No 1, pp. 110			from Contact and Optical 3	D Digitization		
2.		/an Gestel N., Kruth J., Bleys P., Hod tics and Lasers in Engineering, 2011				asurements on		
3.		Hadžistević M., Hodolič J., Vukelić Đ., International Journal of Advanced M						
4.		ić Ž., Petrović P., Hodolič J.: Contact nal Journal of Advanced Manufacturi						
5.		., Stamenković M., Maleš M., Vukelić vironment, Carpathian Journal of Eart						
6.	Manufact	., Zuperl U., Hodolič J.: Complex syst uring Technology, 2009, Vol. 45, No	7-8, pp. 731-748, ISSI	N 0268-3768	-			
7.	Journal o	Hodolič J., Soković M.: Development f Materials Processing Technology, 2	005, Vol. 162, pp. 730	0-735, ISSN 0924-	0136			
8.		8., Budak I., Kosec B., Hodolič J.: An <i>i</i> ent, Environmental Modeling & Asses				/eight		
9.		B., Budak I., Todorović A., Hodolič J., Measurement of Ceramic Crowns, M						
10.		8., Kljajin M., Budak I., Tadić B., Vuke nicles' environmental performances, T						
	Summary data for teacher's scientific or art and professional activity:							
	ation total :		42					
	Total of SCI(SSCI) list papers : 22							
Curr	Current projects : Domestic : 3 International : 6							



State and a

Study Programme Accreditation

Production Engineering

Name and last name:					Jovanović M. Vukica			
	emic title:	ame.			Guest Professor			
		itution v	vhere the te	acher works full time and				
	ng date:							
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:	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	ster thesis		2006	Faculty of Technical Sci	ences - Novi S	ad	Mechatronics, Robotics and Automation and Intelligent Systems	
Bach	elor's thesis	6	2001	Faculty of Technical Sci	ences - Novi S	ad	Production Systems, Organization and Management	
List c	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	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		ent System			(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H1410			l application of programma	able logic	1	chatronics, Undergraduate Academic Studies	
5.	BMI110	contro Senso		ators in medicine		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
6.	II1009	Automatic identification systems				(I10) Industrial Engineering, Undergraduate Academic Studies		
7.	ll1010	Contro	ol of technic	al systems		(I10) Industrial Engineering, Undergraduate Academic Studies		
8.	ll1015	Progra	immable Lo	gic Controllers (PLC)		(I10) Indu Studies	strial Engineering, Undergraduate Academic	
9.	ll1029	Compu	uter integrat	ted manufacturing		(I10) Industrial Engineering, Undergraduate Academic Studies		
10.	ll1045	Syster	ns for meas	surement, surveillance and	d control	(110) Industrial Engineering, Undergraduate Academic Studies		
11.	ll1048	Artificia	al intelligen	ce in engineering		(110) Industrial Engineering, Undergraduate Academic Studies		
12.	IM1001	Funda	mentals of i	industrial engineering		Studies	neering Management, Undergraduate Academic	
13.	IM1022	Funda	mentals of	technical systems control		Studies	neering Management, Undergraduate Academic	
				-		(M20) Mechanization and Construction Engineer Undergraduate Academic Studies		
14.	IM1035	Identifi	ication tech	nologies in enterprises		Studies	neering Management, Undergraduate Academic	
15.	IM1117	Comp	uter integrat	ted manufacturing (CIM)		Studies	neering Management, Undergraduate Academic	
16.	IM1719	Implen	nentation of	f information systems in in	surance	Studies	neering Management, Undergraduate Academic	
17.	HDOK2 S	Selected topics in non-industrial robotics				(112) Indu	strial Engineering, Specialised Academic Studies	
18.	HDOS12	Resea techno		rea of automatic identifica	tion	(I12) Indu	strial Engineering, Specialised Academic Studies	
19.	HDOS13	Motion	control and	d application of MEMS		(112) Indu	strial Engineering, Specialised Academic Studies	
20.	HDOS14	Nonindustrial automation				(I12) Industrial Engineering, Specialised Academic Studies		
21.	NIT08	Fundamentals of Computer Science and Ir			formatics	(NIT) Industrial Engineering - Advanced Engineering Technologies, Master Academic Studies		
22.	H799	9 Fieldbuses and protocols				(H00) Mechatronics, Master Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



List o	List of courses being held by the teacher in the accredited study programmes								
	ID	Course name	Study programme name, study type						
23.	1907	Automated Assembly Systems for H	igh Accuracy	(H00) Mechatronics, Master Academic Studies (PM0) Production Engineering, Master Academic Studies					
24.	IM2516	Artificial Intelligence in Engineering		(I20) Engineering Management, Master Academic Studies					
25.	IM2716	Automation systems in insurance		(I20) Engineering Management, Master Academic Studies					
26.	IM2721	Systems for detection, alarming and	warning	(I20) Engineering Management, Master Academic Studies					
27.	HDOK12	Research in the area of automatic ic technologies	entification	(H00) Mechatronics, Doctoral Academic Studies					
28.	HDOK13	Motion control and the application of	MEMS	(H00) Mechatronics, Doctoral Academic Studies					
29.	HDOK14	Non-industrial Automation		(H00) Mechatronics, Doctoral Academic Studies					
30.	HDOK-3	Selected Chapters in Automation Sy	stems Integration	(H00) Mechatronics, Doctoral Academic Studies					
31.	HDOKL3	Selected Chapters in Automation Sy	stems Integration	(H00) Mechatronics, Doctoral Academic Studies					
32.	HDOL12	Research in the area of automatic ic technologies	entification	(H00) Mechatronics, Doctoral Academic Studies					
				(H00) Mechatronics, Doctoral Academic Studies					
33.	HDOL13	Motion controla and application of M	EMS	(I20) Industrial Engineering / Engineering Management, Doctoral Academic Studies					
				(H00) Mechatronics, Doctoral Academic Studies					
34.	HDOL14								
Rep	presentative	e refferences (minimum 5, not more th	an 10)						
1.	Ostojić G., Stankovski S., Tarjan L., Šenk I., Jovanović V.: Development and Implementation of Didactic Sets in Mechatronics and								
2.	 Jovanović V., Filipović S., Ostojić G., Stankovski S., Lazarević M.: Analysis of Possible Use of Identification Technologies in Disassembly, Facta universitatis - series: Mechanical Engineering, 2009, Vol. 7, No 1, pp. 81-82, ISSN 0354–2025, UDK: 658.515 								
3.	Ostojić G RFID Teo	., Lazarević M., Jovanović V., Stanko chnology , Journal for Fluid Power, A	vski S., Ćosić I.: Desi utomation and Mecha	ign Process in the Assembly and Disassembly Systems Using tronics – Ventil, 2006, Vol. 6, pp. 385-389, ISSN 1318-7279					
4.		ki S., Ostojić G., Jovanović V., Steva cal Engineering, 2006, Vol. 4, No 1, p		echnology in Collaborative Design, Facta universitatis - series: 2025, UDK: 681.518:65.011.56					
5.	Journal fo			D Tehnology Use In Assembly and Disassembly Processes , 6, Vol. 6, No 12, pp. 385-389, ISSN 1318-7279, UDK: 62-82					
6.		c, V., DeAgostino, T.H., Thomas, M.B EE Annual Conference and Expositio		ating engineering students to succeed in a global workplace, edings					
7.	Internatio		eering Conference (N	t and Part Tracking for the Preventive Maintenance, 4. ASME ISEC), West Lafayette: American Society of Mechanical					
8.	Manufact		erence (MSEC), West	hnical Diagnostics of Bearings, 4. ASME International Lafayette: American Society of Mechanical Engineers					
9.	Product L		national Manufacturin	Principles into Mechatronic Product Development through g Science and Engineering Conference (MSEC), West Dktobar, 2009, ISBN 9780791843611					
10.	Jovanović V., Ncube L.: The Curriculum as a Product: The Application of PLM to the Comprehension Collaborative Design								
Sur	Summary data for teacher's scientific or art and professional activity:								
	ation total :		9						
	Fotal of SCI(SSCI) list papers : 1								
Curre	rrent projects : Domestic : 1 International : 2								



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

Study Programme Accreditation



Production Engineering

Prito triesis 1962 Paculty of Technical Sciences - Novi Sad and Surface Engineering, Micro and Nano Magister thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Bachelor's thesis 1971 Faculty of Technical Sciences - Novi Sad Mechanical Engineering Micro and Nano Bachelor's thesis 1971 Faculty of Technical Sciences - Novi Sad Mechanical Engineering Micro and Nano List of courses being held by the teacher in the accredited study programmes Study programme name, study type Mechanical Engineering 1 P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 2 P110 Casting Technology (P00) Production Engineering, Undergraduate Academic Studies 3 P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 4 P211 Devices and Plasma Procedures in Mechanical Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies 5 P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6 P2403 Thermal Processing of Contemporary Tools (P00)	Nam	e and last n	ame:			Kakaš I. Dam	Kakaš I. Damir			
starting date: 01.09.1971 Scientific or art field: Surface Engineering. Micro and Nano Technologies Academic carlier Year Institution Field Academic carlier Year Institution Field Academic carlier Year Institution Field Academic title election 1994 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology Bachelor's thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology Bachelor's thesis 1977 Faculty of Technical Sciences - Novi Sad Mechanical Engineering, Micro and Nano Bachelor's thesis 1977 Faculty of Technical Sciences - Novi Sad Mechanical Engineering Lit of Course seming Held by the teacher in the accredited study programme Studies Studies 2. P110 Casting Technology (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 6. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies <td>Acad</td> <td>lemic title:</td> <td></td> <td></td> <td></td> <td>Full Professo</td> <td>r</td> <td></td>	Acad	lemic title:				Full Professo	r			
Scientific or art field: Surface Engineering, Micro and Nano Technologies Academic title election: 1994 Faculty of Technical Sciences - Novi Sad Surface Engineering, Micro and Nano Technologies PhD thesis 1982 Faculty of Technical Sciences - Novi Sad Surface Engineering, Micro and Nano Technologies Magister thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Technologies Bachelor's thesis 1977 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano List of courses being held by the toeacher in the accredited study programmes List of courses Mechanical Engineering, Undergraduate Academic Studies 2. P110 Casting and Thermal Processing (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 6. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (P00) Production Engineering, Undergraduate Academic Studies 9. P2403	Nam	e of the inst	itution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
Academic carieer Year Institution Field Academic title election: 1994 Faculty of Technical Sciences - Novi Sad Surface Engineering, Micro and Nano Technicolgies PhD thesis 1982 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technicolgy and Surface Engineering, Micro and Nano Magister thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering. Eachelors: thresis 1971 Faculty of Technical Sciences - Novi Sad Mechanical Engineering. Ib Course name Study programme name. study type 1 P105 Heat Processing (P00) Production Engineering. Undergraduate Academic Studies 3 P210 Surface Engineering (P00) Production Engineering. Undergraduate Academic Studies 5 P2402 Designing of Thermal Processing Technologies (P00) Production Engineering. Undergraduate Academic Studies 6 P2403 Contemporary Casting Technologies (P00) Production Engineering. Undergraduate Academic Studies 7 P3405 Thermal Processing Technologies (M00) Production Engineering. Undergraduate Academic Studies 8 M2061 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td colspan="4">01.09.1971</td>		-				01.09.1971				
Academic tille election: 1994 Faculty of Technical Sciences - Novi Sad Surface Engineering, Micro and Nano Technologies PhD thesis 1982 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Easting and Thermal Processing Technology and Surface Engineering, Micro and Nano Backelor's thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Backelor's thesis 10 Course name Study programme name, study type 1. P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 2. P110 Casting Technology (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (M00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Production Engineering, Master Academic Studies 9. P2503 P	Scier	ntific or art f	ield:		ſ	Surface Engi	neering, Mic	ro and Nano Technologies		
Academic title election. 1994 Packing of Technologies Technologies PhD thesis 1982 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Magister thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano Bachelor's thesis 1977 Faculty of Technical Sciences - Novi Sad Mechanical Engineering List of courses being held by the teacher in the accredited study programmes Study programme name, study type 1. P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (IP00) Production Engineering, Undergraduate Academic Studies 6. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technologies 1 (M20) Production Engineering, Master Academic Studies	Acad	lemic cariee	er	Year	Institution			Field		
PID lesis 1992 Paduly of redinical sciences - Novi Sad and Surface Engineering. Micro and Nano Magister thesis 1976 Faculty of Technical Sciences - Novi Sad Casting and Thermal Processing Technology and Surface Engineering. Micro and Nano Bachelor's thesis 1971 Faculty of Technical Sciences - Novi Sad Mechanical Engineering List of courses being held by the teacher in the accredited study programme name. study type (P00) Production Engineering. Undergraduate Academic Studies 2. P110 Casting Technology (P00) Production Engineering. Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering. Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical Engineering (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Master Academic Studies 8. M2061 Basics of Manufacturing Technologies <td>Acad</td> <td>lemic title el</td> <td>ection:</td> <td>1994</td> <td>Faculty of Technical Science</td> <td>ences - Novi S</td> <td>ad</td> <td></td>	Acad	lemic title el	ection:	1994	Faculty of Technical Science	ences - Novi S	ad			
Magdiain litesis 1976 Pachagy of Fedinical Sciences - Novi Sad and Surface Engineering. Micro and Nano ¹¹ Bachelor's thesis 1971 Faculty of Technical Sciences - Novi Sad Mechanical Engineering List of courses being held by the teacher in the accredited study programmes Study programme name, study type 1. P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 2. P110 Casting Technology (Up0) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical Studies (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 10. P2503 Process Design in Casting Technologies 1 (M40) Technical Mechanics and Technical Desig	PhD	thesis		1982	Faculty of Technical Science	ences - Novi S	ad	Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano		
List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 2. P110 Casting Technology (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies 6. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M40) Mechnical Mechanics and Technical Design, Undergraduate Academic Studies 10. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12.	Magi	ster thesis		1976	Faculty of Technical Science	ences - Novi S	ad	Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano		
ID Course name Study programme name, study type 1. P105 Heat Processing (P00) Production Engineering, Undergraduate Academic Studies 2. P110 Casting Technology (P00) Production Engineering, Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3406 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 10. P2503 Process Design in Casting Technologies (P40) Production Engineering, Master Academic Studies 11. P2111 Mechanical Engineering in Medicine and Bioengineering (P40) Production Engineering, Master Academic Studies 10. P2503	Bach	elor's thesis	S	1971	Faculty of Technical Science	ences - Novi S	ad	Mechanical Engineering		
Image: Construction of the state o	List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
1. P100 Read PloCessing Studies 2. P110 Casting Technology (P00) Production Engineering. Undergraduate Academic Studies 3. P210 Surface Engineering (P00) Production Engineering. Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical Engineering. Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering. Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering. Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering. Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SM1002 Modeling and simulation of thermo chemic		ID	Course	e name			Study pro	ogramme name, study type		
2 P110 Casting Technology Studies C 3. P210 Surface Engineering (P00) Production Engineering, Undergraduate Academic Studies 4. P211 Devices and Plasma Procedures in Mechanical Engineering, Undergraduate Academic Studies (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Master Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (PM0) Production Engineering, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SM002 Modeling and Simulation of thermo chemical and (PM0) Production Engineering, Master Academic Studies 1	1.	P105	Heat F	Processing				duction Engineering, Undergraduate Academic		
3. P210 Studies 1 4. P211 Devices and Plasma Procedures in Mechanical Engineering (P00) Production Engineering, Undergraduate Academic Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and Simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Doctoral Academic Studies 13. DP001 Design and Research Methods in Production (M00) Mechanical Engineering, Doctoral Academic Studies	2.	P110	Castin	g Technolo	ду			duction Engineering, Undergraduate Academic		
4. P211 Engineering Studies 5. P2402 Designing of Thermal Processing Technologies (P00) Production Engineering, Undergraduate Academic Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. P2511 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and simulation of thermo chemical and (PM0) Production Engineering, Doctoral Academic Studies 13. DP001 Design and Research Methods in Production (M00) Mechanical Engineering, Doctoral Academic Studie 15. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011	3.	P210	Surfac	e Engineer	ing			duction Engineering, Undergraduate Academic		
5. P2402 Designing of Thermal Processing Technologies Studies 6. P2403 Contemporary Casting Technologies (P00) Production Engineering, Undergraduate Academic Studies 7. P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. P2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SM1002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies	4.	P211			ma Procedures in Mechar	nical		duction Engineering, Undergraduate Academic		
6 P2403 Contemporary Casting Technologies Studies 7 P3405 Thermal Processing of Contemporary Tools (P00) Production Engineering, Undergraduate Academic Studies 8 M2061 Basics of Manufacturing Technologies 1 (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 9 P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 9 P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 10 P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11 PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12 SM1002 Modeling and simulation of thermo chemical and metallurgical processes (M00) Mechanical Engineering, Doctoral Academic Studies 13 DP001 Design and Research Methods in Production (M00) Mechanical Engineering, Doctoral Academic Studies 15 DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 16 DP011 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies	5.	P2402	Desigr	ning of The	rmal Processing Technolo	gies				
7. P303 FileInial Processing of Collectipolary Tools Studies 8. M2061 Basics of Manufacturing Technologies 1 (M20) Mechanization and Construction Engineering, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. P2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering, Doctoral Academic Studies (M00) Mechanical Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies and Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studies 15. DP001 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 16. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical En	6.	P2403	Conter	mporary Ca	asting Technologies			duction Engineering, Undergraduate Academic		
8. M2061 Basics of Manufacturing Technologies 1 Undergraduate Academic Studies (M40) Technical Mechanics and Technical Design, Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies (M40) Technical Mechanics and Technical Design, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Master Academic Studies (PM0) Production Engineering, Doctoral Academic Studies (PM0) Production Engineering, Doctoral Academic Studies (PM0) Production Engineering, Doctoral Academic Studies (PM0) Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie (M00) Mechanical Engineering, Doctoral Academic Studie (M00) Mechanical Engineering, Doctoral Academic Studie (M00) Production Engineering, Doctoral Academic Studie (M00) Mechanical Engineering, Doctoral Academic Studie (M00) Mec	7.	P3405	Thermal Processing of Contemporary Tools			3		duction Engineering, Undergraduate Academic		
Undergraduate Academic Studies 9. P2503 Process Design in Casting Technology (PM0) Production Engineering, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studie 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nan o and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. DP014 Nan o and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 19. Koxačević	8.	M2061	Basics	of Manufa	cturing Technologies 1		Undergrad	uate Academic Studies		
10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 10. P2507 Nanotechnologies (M40) Technical Mechanics and Technical Design, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studie 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. Advarced Terks (minimum 5, not more than 10) Kovačević L., Terek P., Kakaš D., Mietić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136.							Undergraduate Academic Studies			
10. P2507 Nanotechnologies Ácadémic Studies (PM0) Production Engineering, Master Academic Studies 11. PP2111 Mechanical Engineering in Medicine and Bioengineering Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 12. SM1002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering (M00) Mechanical Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studies 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 16. DP011 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies 18. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of AI–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion i	9.	P2503	Proces	ss Design i	n Casting Technology		(PM0) Production Engineering, Master Academic Studies			
11. PP2111 Mechanical Engineering in Medicine and Bioengineering (PM0) Production Engineering, Master Academic Studies 12. SMI002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studie 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škori	10.	P2507	Nanote	echnologies	3		(M40) Technical Mechanics and Technical Design, Master Academic Studies			
12. SMI002 Modeling and simulation of thermo chemical and metallurgical processes (PM0) Production Engineering, Master Academic Studies 13. DP001 Design and Research Methods in Production Engineering, Doctoral Academic Studies 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studies 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studies 16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studies 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studies 18. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 3. PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 4. Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="3">(PM0) Production Engineering, Master Academic Studies</td>							(PM0) Production Engineering, Master Academic Studies			
12. SMI002 metallurgical processes (110) Production Engineering, indextribution endine endite endine endine endite endine endine endite endine endine endite	11.	PP2I11		-	· ·	<u> </u>				
13. DP001 Design and Research Methods in Production Engineering (M00) Mechanical Engineering, Doctoral Academic Studie 14. DP004 Advanced Technologies in Casting and Heat Treatment (M00) Mechanical Engineering, Doctoral Academic Studie 15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 3. Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 4. Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 5 Kakaš D.,	12.	SMI002		•		ii and	(PM0) Pro	duction Engineering, Master Academic Studies		
15. DP007 Procedures of Plasma Depozition (M00) Mechanical Engineering, Doctoral Academic Studie 16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. Representative refferences (minimum 5, not more than 10) (M00) Mechanical heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 3. Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 4. Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 5 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science,	13.	DP001	Desigr Engine	n and Rese eering	arch Methods in Productio		(M00) Me	chanical Engineering, Doctoral Academic Studies		
16. DP011 Nanotechnologies and Nanomaterials Forming (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 17. DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie 18. Representative refferences (minimum 5, not more than 10) (M00) Mechanical Engineering, Doctoral Academic Studie 19. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 3. Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 4. Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 5 Kakaš D., Škorić B., Bibić N., Ra	14.	DP004	Advan	ced Techno	ologies in Casting and Hea	at Treatment	(M00) Me	chanical Engineering, Doctoral Academic Studies		
 DP014 Nano and Micro Layers Characterization (M00) Mechanical Engineering, Doctoral Academic Studie Representative refferences (minimum 5, not more than 10) Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	15.	DP007	Proced	dures of Pla	asma Depozition		(M00) Me	chanical Engineering, Doctoral Academic Studies		
 Representative refferences (minimum 5, not more than 10) 1. Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. 2. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films,, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 3. Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 4. Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 5. Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	16.	DP011	Nanote	echnologies	s and Nanomaterials Form	ning	(M00) Me	chanical Engineering, Doctoral Academic Studies		
 Kovačević L., Terek P., Kakaš D., Miletić A.: A correlation to describe interfacial heat transfer coefficient during solidification of Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films,, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films,, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	17.	DP014	Nano a	and Micro L	ayers Characterization		(M00) Me	chanical Engineering, Doctoral Academic Studies		
 Al–Si alloy casting, Journal of Materials Processing Technology, 2012, Vol. 212, No 9, pp. 1856-1861, ISSN 0924-0136. Kakaš D., Škorić B., Rakita M.: Tribological behavior of duplex coating improved by ion implantation , Thin Solid Films, 2004, Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
 Vol. 459, No 1-2, pp. 152-155, ISSN 0040-6090 Kakaš D., Škorić B., Gredić T.: Influence of plasma nitriding on mechanical and Tribological Properties Of Steel with subsequer PVD Surface Treatments., Thin Solid Films,, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	1.									
 PVD Surface Treatments., Thin Solid Films, 1998, Vol. 317, No 1-2, pp. 486-489, ISSN 0040-6090 Zlatanović M., Kakaš D., Mazibrada LJ., Kunosić A., Münz W.: Influence of plasma nitriding on wear performance of TiN coating Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	2.				5	of duplex coati	ng improved	by ion implantation , Thin Solid Films,, 2004,		
 Surface and Coating Technology, 1994, Vol. 64, No 3, pp. 173-181 Kakaš D., Škorić B., Bibić N., Rakita M.: Microstructural studies of TiN coatings prepared by PVD and IBAD , Surface Science, 	3.									
	4.	Zlatanovi	ć M., Ka	akaš D., Ma	zibrada LJ., Kunosić A., M	lünz W.: Influe				
	5.	Kakaš D.	, Škorić	B., Bibić N	., Rakita M.: Microstructur		iN coatings	prepared by PVD and IBAD , Surface Science,		

4	TAS STUR		UNIVERSITY OF NO	OVI SAD		HAKNX H.		
ANNO NORUM		FACULTY OF TECHNICAL SC	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
		Study Programme Accreditation						
.0t	LANTEN	MASTER ACADEMIC STUDIES			Production Engineering	e Hoo		
Rep	presentative re	efferences (minimum 5, not more th	nan 10)					
6.	6. Škorić B., Kakaš D., Rakita M., Bibić N., Peruškob D.: Structure, hardness and adhesion of TiN coatings deposited by PVD and IBAD on nitrided steels, Vacuun, 2004, Vol. 76, No 2-3, pp. 169-172, ISSN 0042-207X							
7.	Kakaš D., Terek P., Kovačević L., Miletić A., Škorić B.: Influence of interfacial layer thickness and substrate roughness on adhesion of TiN coatings deposited at low temperatures by IBAD, SURF REV LETT, 2011, Vol. 18, No 3-4, pp. 83-90, ISSN 0218-625X.							
8.		čakaš D., Ješić D., Gostimirović Μ., n, Metalurgija, 2012, Vol. 51, No 1,			lex hard coatings with additiona	al ion		
9.		akaš D., Miletić A., Arsenović M., C on Implantation, Oxidation Commu				oatings with		
10.	Škorić B., Kakaš D., Gostimirović M., Miletić A.: Nanoscale modification of hard coatings with ion implantation, Materijali in tehnologije, 2011, Vol. 45, No 5, pp. 447-450, ISSN 1580-2949.							
Sur	nmary data fo	r teacher's scientific or art and prof	essional activity:					
Quot	ation total :		31					
Tota	of SCI(SSCI)	list papers :	12					
Curre	ent projects :		Domestic :	2	International :	1		



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

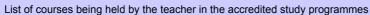
Nam	Name and last name: Koniović							
		ame:			Konjović D. Zora			
	emic title:				Full Professor		ncos Novi Sad	
	e of the insl ng date:	utution v	vnere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad 01.10.1981			
	ntific or art f	ield:			Applied Computer Science and Informatics			
	emic carie		Year	Institution	<u> </u>		Field	
	emic title e		2003	Faculty of Technical Sci	ences - Novi Si	ad	Applied Computer Science and Informatics	
	thesis		1992	Faculty of Technical Sci			Robotics and Flexible Automation	
Magi	ster thesis		1985	Faculty of Technical Sci			Robotics and Flexible Automation	
	elor's thesis	s	1973	Faculty of Sciences - No			Mathematics	
				acher in the accredited stu		s		
		<u> </u>				-		
	ID	Course	e name			Study pro	gramme name, study type	
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
						(GI0) Geo Studies	desy and Geomatics, Undergraduate Academic	
1.	E231	Numer	rical Algorith	nms and Numerical Softwa	are		tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
	E233	E233 Internet Networks				(GI0) Geodesy and Geomatics, Undergraduate Academic Studies		
2.							tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
						(E10) Power, Electronic and Telecommunication Engineering, Undergraduate Academic Studies		
						(E20) Con Academic	nputing and Control Engineering, Undergraduate Studies	
3.	E236A	Computational Intelligence Fundamentals				(SE0) Software Engineering and Information Technologie Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
						Académic		
4.	E2K42	Knowle	Knowledge Based Systems			Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
							tware Engineering and Information Technologies - ndergraduate Academic Studies	
5.	ISIT41	eGove	ernment tecl	nnologies and systems			vare and Information Technologies (Inđija), uate Professional Studies	
6.	BMI101	Introdu	uction to Me	edical Informatics		(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
7.	SES103	Oral a	nd written c	ommunication skills			tware Engineering and Information Technologies, uate Academic Studies	
<i>'</i> .	020100					(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
8.	SES301	IT Law	1			Undergrad	tware Engineering and Information Technologies, uate Academic Studies	
0.	0. 3L3301		IT Law				tware Engineering and Information Technologies - ndergraduate Academic Studies	



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



List c	List of courses being held by the teacher in the accredited study programmes									
	ID	Course name	Study programme name, study type							
			(E20) Computing and Control Engineering, Master Academic Studies							
9.	E2513	Semantic Web	(PM0) Production Engineering, Master Academic Studies							
			(SE0) Software Engineering and Information Technologies, Master Academic Studies							
10.	E2514	Biologicaly inspired computing	(E20) Computing and Control Engineering, Master Academic Studies							
10.	L2014		(SE0) Software Engineering and Information Technologies, Master Academic Studies							
11.	EP002	EBusiness technologies and systems	(I20) Engineering Management, Specialised Professional Studies							
	LI 002		(IB0) Engineering Management - MBA, Specialised Professional Studies							
12.	E2525	Contemporary educational technologies and standards	(E20) Computing and Control Engineering, Master Academic Studies							
12.	L2020	contemporary educational technologies and standards	(SE0) Software Engineering and Information Technologies, Master Academic Studies							
13.	SEM013	E-government technologies	(SE0) Software Engineering and Information Technologies, Master Academic Studies							
14.	DAU002	Selected Chapters in Computing	(F00) Graphic Engineering and Design, Doctoral Academic Studies							
			(H00) Mechatronics, Doctoral Academic Studies							
15.	DRNI07	7 Selected Chapters in Computational Intelligence	(E20) Computing and Control Engineering, Doctoral Academic Studies							
			(OM1) Mathematics in Engineering, Doctoral Academic Studies							
16.	FDS152	Selected Topics in Computer Graphics	(F00) Graphic Engineering and Design, Doctoral Academic Studies							
17.	DAU014	Selected Topics in Computing	(E20) Computing and Control Engineering, Doctoral Academic Studies							
			(OM1) Mathematics in Engineering, Doctoral Academic Studies							
18.	DRNI10	Selected Topics in E-Government	(E20) Computing and Control Engineering, Doctoral Academic Studies							
19.	DRNI17	Selected Topics in ICT enhanced learning	(E20) Computing and Control Engineering, Doctoral Academic Studies							
10.	Brann		(OM1) Mathematics in Engineering, Doctoral Academic Studies							
Rep	oresentative	refferences (minimum 5, not more than 10)								
1.		c Djordje, Konjovic Zora, Pap Endre, Ralevic Nebojsa (201 ts and Systems, Vol. 170 no. 1, pp. 76-94	1). The maximal distance between imprecise point objects,							
2.		c Djordje, Konjovic Zora, Pap Endre, Rudas Imre (2012). Li vstems (rad objavljen u elektronskom obliku http://www.scie	near Fuzzy Space Based Road Lane Detection. Knowledge- ncedirect.com/science/article/pii/S0950705112000032)							
3.		c Aleksandar, Konjović Zora, Milosavljević Branko, Nenacons: A case study in automatic terminology recognition, Con								
4.		Stevan, Sladić Goran, Milosavljević Branko, Konjović Zora (ent Services. Journal of Organizational Computing and Ele								
5.	Sladić Go Electronio	oran, Milosavljević Branko, Surla Dušan, Konjović Zora (201 c Library (ISSN: 0264-0473), 30:5, pp. 623-652	2). Flexible Access Control Framework for MARC Records.							
6.		ran, Segedinac Milan, Konjović, Zora (2012).Automatic Ger nal Design. Computer Science and Information Systems. V								
7.		oran, Milosavljević Branko, Konjović Zora, Vidaković Milan (ns. Computer Science and Information Systems / ComSIS (
8.		Dragan, Surla Dusan, Konjovic Zora (2011). CERIF compat /ol. 29 no. 1, pp. 52-70	tible data model based on MARC 21 format, Electronic							
9.		c Aleksandar, Ivanovic Dragan, Milosavljevic Branko, Kor from scientific publications for CRIS systems, Program-Ele	njovic Zora, Surla Dusan (2011). Automatic extraction of ectronic Library and Information Systems, Vol. 45 no. 4, pp.							

4	AS STUD		WYKHX HA							
IVE	NOU DO R	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	EJA OBRADOVIĆA 6						
Study			Programme A	on	To Contraction					
,0t	LANTER	MASTER ACADEMIC STUDIES	Production Engineering			HOD HOD				
Rep	presentative r	efferences (minimum 5, not more th	an 10)							
10.	10. Segedinac, Milan, Konjović, Zora, Segedinac Mirjana, Savić, Goran (2011). A Formal Approach to Organization of Educational Objectives. Psihologija, Vol. 44 no. 4, pp. 307-323.									
Summary data for teacher's scientific or art and professional activity:										
Quot	ation total :		0							
Total	of SCI(SSCI)	list papers :	15							
Curre	ent projects :		Domestic :	2	International :	1				



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Nom	Name and last name: Kovač P. Pavel								
					Kovac P. Pavel Full Professor				
Name of the institution where the teacher works full time and					Full Professor Faculty of Technical Sciences - Novi Sad				
starting date:					01.12.1975				
	ntific or art f	ield:				01.12.1975 Processes for Material Removal Processing			
	lemic carie		Year	Institution	1.000000010		Field		
	lemic title e		1998	Faculty of Technical Sci	ences - Novi S	ad	Processes for Material Removal Processing		
	thesis		1987	Faculty of Technical Sci			Processes for Material Removal Processing		
	ster thesis		1980	Faculty of Technical Sci			Processes for Material Removal Processing		
magi	3101 110313		1000	•			Machine Tools, Flexible Technological Systems		
	elor's thesis	-	1975	Faculty of Technical Sci			and Automatization Processes Design		
List c	of courses b	eing ne	ld by the tea	acher in the accredited stu	udy programme	es I			
	ID	Course	e name			Study pro	gramme name, study type		
1.	P1406	Theory	y of Machini	ng Processes		(P00) Proc Studies	duction Engineering, Undergraduate Academic		
2.	P1507	Inovat	ional Techn	ologies		(P00) Proc Studies	duction Engineering, Undergraduate Academic		
3.	P208	Techn	ology for Cu	utting Processing		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P2617	Planni	ng Methods	and Experiment Process	sing	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
5.	P305	Nonco	nventional	Procedures in Processing		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	P4410	Design and Product Functionality				(P00) Proo Studies	roduction Engineering, Undergraduate Academic		
7.	ZR320	Experimental Analysys of Safety and Health Workplace			h on	(Z01) Safe	01) Safety at Work, Undergraduate Academic Studies		
8.	P316A	Technology for Microcutting Processes				(P00)Proo Studies	duction Engineering, Undergraduate Academic		
9.	P1501	Ecological Technologies and Systems				(M40) Technical Mechanics and Technical Design, Master Academic Studies			
						, ,	duction Engineering, Master Academic Studies		
10.	P1505		-	nulation in Processing		` '	duction Engineering, Master Academic Studies		
11.	P1509	• •		Processing			duction Engineering, Master Academic Studies		
12.	P3502			hining technology			duction Engineering, Master Academic Studies		
13.	PIP16			onmental protection			(PM0) Production Engineering, Master Academic Studies		
14. 15.	PP101 SDOM3	Probal	bility, Statis	Processes	ering	(Z00) Envi	PM0) Production Engineering, Master Academic Studies Z00) Environmental Engineering, Specialised Academic		
-	0	Experi	ment			Studies	phonical Engineering Destand Assistantic Ot"		
							chanical Engineering, Doctoral Academic Studies		
16.	DOM30	Probability, Statistics and Theory of Engined Experiment			ering		hnical Mechanics, Doctoral Academic Studies ironmental Engineering, Doctoral Academic		
							ety at Work, Doctoral Academic Studies		
17.	DP001			arch Methods in Productio	ิท	, ,	chanical Engineering, Doctoral Academic Studies		
18.	DP002	Engineering State and Trend in Forming by Material Removal			moval	(M00) Med	chanical Engineering, Doctoral Academic Studies		
19.	DP009	Artificia Remov		ce Application in Forming	by Material	(M00) Med	chanical Engineering, Doctoral Academic Studies		
20.	DP013			ering Aspects		(M00) Med	chanical Engineering, Doctoral Academic Studies		
21.	DP020	State a		cies in Development of U	nconventional	, ,	chanical Engineering, Doctoral Academic Studies		
22.	DP021	Select	ed Chapters	s in Micro and Nano Form	ing by	(M00) Med	chanical Engineering, Doctoral Academic Studies		
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.	Kovač P.	, Milikić	D.:Rezanie	metala, Univerzitet u Nov	om Sadu, 199	8			
1. Kovač P., Milikić D.:Rezanje metala, Univerzitet u Novom Sadu, 1998									

	AS STU		UNIVERSITY OF NO	VI SAD		WWY			
ALL		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
N J	Con Star	Study F	Programme A	ccreditati	on	To Bar			
103	PLANTER ST	MASTER ACADEMIC STUDIES	0		Production Engineering	AS HOB			
Rep	presentative re	efferences (minimum 5, not more th	an 10)						
2.		Milikić D.,Gostimirović M.,Sekulić M i Sad, 2011.	., Savkovic.,B.: Zbirka	zadataka iz tehr	nologije obrade rezanjem ,	Fakultet tehničkih			
3.	Kovač Pave	el, Metode planiranja i obrade ekspe	erimenata, FTN Novi S	Sad, 2011					
4.	Kovač P. : I	Podloge za upravljanje procesom č	eonog glodanja, FTN,	IPM, Novi Sad, 1	988				
5.	Kovač P.: N	lodeliranje procesa obrade-faktorni	planovi eksperimenta	, Fakultet tehničl	kih nauka, Novi Sad, 2006				
6.	Kovač P.: T	eorija obradnih procesa -praktikum	za vežbe, Fakultet tel	hničkih nauka , N	lovi Sad, 2007				
7.	ANALYSIS	Rodić D., Pucovsky V., Savković B., FOR MODELING SURFACE ROU UDK: DOI 10.1007/s10845-012-06	GHNESS IN FACE MI						
8.	Šiđanin L., 439-444	Kovač P.: Fracture mechanisms in	chip formation proces	ses, Materials Sc	ience and Technology, Vol	. 13, 1997, pp.			
9.	Pavel Kovač, Zuzana Palkova, Proizvodno mašinstvo i obnovljivi izvori energije, FTN Novi Sad 2011								
10.	Kovač P., Šiđanin L.: Investigation of chip formation during milling, Int. J. Production Economic, 51, 1997, pp. 149-153								
Sur	mmary data fo	r teacher's scientific or art and prof	essional activity:						
Quot	tation total :		7						
Tota	l of SCI(SSCI)	list papers :	15	1	1				
Curre	ent projects :		Domestic :	1	International :	7			



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

Study Programme Accreditation MASTER ACADEMIC STUDIES



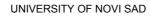


Production Engineering

Nam	e and last n	ame.			Lazarević M.	Milovan			
Name and last name: Academic title:					Assistant Pro				
Name of the institution where the teacher works full time and				acher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				11.11.2000				
Scier	ntific or art f	ield:			Production Sy	/stems, Org	anization and Management		
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title el	lection:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Production Systems, Organization and Management		
PhD	thesis		2009	Faculty of Technical Sci	ences - Novi Sa	ad	Engineering Management		
Magi	ster thesis		2006	Faculty of Technical Sci	ences - Novi Sa	ad	Production Systems, Organization and Management		
Bach	elor's thesis	S	2000	Faculty of Technical Sci	ences - Novi Sa	ad	Production Systems, Organization and Management		
List c	of courses b	eing he	Id by the te	acher in the accredited stu	udy programme	S			
	ID	Cours	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	Produ	ction Syster	ns		Studies (M40) Teo	desy and Geomatics, Undergraduate Academic chnical Mechanics and Technical Design,		
3.	ll1012	Assem	bly Techno	logies		(110) Indus	uate Academic Studies strial Engineering, Undergraduate Academic		
4.	II1012		ction Syster	-			lustrial Engineering, Undergraduate Academic		
5.	II1037		-	recycling technologies			strial Engineering, Undergraduate Academic		
							Graphic Engineering and Design, Undergraduate		
6.	II1053	Production Systems				Academic Studies (P00) Production Engineering, Undergraduate Academic Studies			
							neering Management, Undergraduate Academic		
7.	IM1027	Produ	ction systen	ns		(MR0) Me	asurement and Control Engineering, uate Academic Studies		
8.	IM1114	Energ	y Flows in t	ne Enterprise			ineering Management, Undergraduate Academic		
9.	IM1119	Produ	ct managen	nent at end of life		(I20) Engin Studies	neering Management, Undergraduate Academic		
10.	EI504	Mana	nemont of S	mall and Modium Enterna	ises	(MR0) Me Academic	asurement and Control Engineering, Master Studies		
10.	E1004	wanaę	Management of Small and Medium Enterpri		1000	· · ·	er, Electronic and Telecommunication g, Master Academic Studies		
11.	IMDR0S	Select and co		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.	IMDS50	Strategic Planning and Designing Procedure Systems at the End of Product Lifecycle			es and		strial Engineering, Specialised Academic Studies		
14.	IMDS93			s and Collaborative System	ms	(I22) Engi Studies	neering Management, Specialised Academic		
15.	MBA411	Business intelligence concepts				(I20) Engineering Management, Specialised Professiona Studies (IB0) Engineering Management - MBA, Specialised Professional Studies			
16.	PLM02	Produ	ct Developn	nent and Management in	PLM	(I10) Indus (I1U) Indu	strial Engineering, Master Academic Studies strial Engineering - Product Lifecycle Managemer opment, Master Academic Studies		

FACULTY OF TE

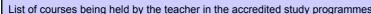
SITAS STUD



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES



List of courses being held by the teacher in the accredited study programmes									
	ID	Course name		Study program					
17.	PLM06	Technologies for Disposal at the Pro	oducts End-Of-Life	(I1U) Industrial and Developmer	/cle Management s				
18.	1907	Automated Assembly Systems for H	ligh Accuracy	·	nics, Master Academic Stud				
				, ,	on Engineering, Master Aca				
19.	IIDR5S	Advanced Engineering Technologies	S	. ,	Engineering, Specialised Ac ng Management, Specialised				
				(M50) Energy M	lanagement, Master Acader	nic Studies			
				(112) Industrial E	Engineering, Specialised Ac	ademic Studies			
20.	IIDS10	Effective technological and production	on structures	(I22) Engineerir Studies	ng Management, Specialise	d Academic			
				(110) Industrial E	Engineering, Master Acader	nic Studies			
21.	IM2102	Manufacturing strategy (KAIZEN, LE EFPS)	AN, KANBAN,	(M50) Energy N	lanagement, Master Acader	nic Studies			
		,		(I20) Engineerin	g Management, Master Aca	demic Studies			
22.	IM2120	Virtual Enterprises		(I20) Engineerin	g Management, Master Aca	demic Studies			
23.	IM2124	Production and Service Systems		(H00) Mechatro	nics, Master Academic Stud	lies			
23.	111/2 1 24	Froduction and Service Systems		(M50) Energy M	lanagement, Master Acader	nic Studies			
24.	PLM02	Applied Product Development		(I20) Engineerir Studies	ng Management, Specialise	d Professional			
25.	IMDR0	Science of Industrial Engineering an	d Management	(120) Industrial E Doctoral Acader	Engineering / Engineering N nic Studies	lanagement,			
26.	IMDR56	Traceability of Product Lifecycle		(I20) Industrial Engineering / Engineering Managen Doctoral Academic Studies					
27.	IMDR57	Strategic Planning and Designing Pl Systems at the End of Product Lifed		(120) Industrial E Doctoral Acader	lanagement,				
28.	IMDR93	Virtual Enterprises and Collaborative	e Systems	(I20) Industrial Engineering / Engineering Manageme Doctoral Academic Studies					
29.	IMDR85	Effective technological and production	on structures	(120) Industrial E Doctoral Acader	Engineering / Engineering N nic Studies	lanagement,			
Rep	oresentative	e refferences (minimum 5, not more th	an 10)						
1.		D., Ostojić G., Stankovski S., Lazarevid environment, Assembly Automation, 2				bly/disassembly			
2.	of accept	ski S., Ostojić G., Tarjan L., Škrinjar D tance 14. March 2010), Iranian Journa	al of Science & Techno	ology, Transaction	ns B, 2011, ISSN 1028-6284	4			
3.	Ostojić G Journal c	5., 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.	Cycle , A	ski S., Lazarević M., Ostojić G., Ćosić ssembly Automation, 2009, Vol. 29, B	Broj 4, str. 364-370, ISS	SN 0144-5154					
5.	product t	ć M., Ostojić G., Ćosić I., Stankovski S racking based on radio-frequency ider -4787, ISSN 1992-2248							
6.	technolog	5., Stankovski S., Vukelić Đ., Lazarevio gy in a process of fixture assembly/dis 19-825, ISSN 0039-2480	, , ,	· ·					
7.	Lazarevi	ć M., Ostojić G., Stankovski S., Ćosić a, Broj priznatog patenta: 51796, datu				korišćenjem			
8.	Internatio	D., Tadić B., Hodolič J., Budak I., Laza nal Conference on Accomplishments ka: Faculty of Mechanical Engineering	in Electrical and Mech	nanical Engineerir	ng and Information Technolo				
9.		Ostojić, Milovan Lazarević, Vukica Jo nbly Processes, Ventil, 2006, Vol. 6, N			RFID Tehnology Use In As	sembly and			
10.		ski S., Ostojić G., Lazarević M., Popov atis - series: Mechanical Engineering,				Facta			
Sun	nmary data	for teacher's scientific or art and profe	essional activity:						
	ation total :		11						
	,	CI) list papers :	6 Demostia		later and the set				
Curre	ent projects	:	Domestic :	4	International :	3			





Study Programme Accreditation

MASTER ACADEMIC STUDIES



Name	Name and last name:								
Academic title:					Assistant Professor				
Name of the institution where the teacher works full time and									
starting date:					09.11.1992				
Scier	ntific or art f	ield:				mation Tech	nology, Rapid Prototyping, Virtual		
Acad	emic cariee	er	Year	Institution	•		Field		
Acad	emic title el	ection:	2009	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
PhD	thesis		2009	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Bach	elor's thesis	6	1992	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
List o	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es			
	ID	Course	e name			Study pro	ogramme name, study type		
1.	IA016	Introdu	uction to Vir	tual Reality Technology		(F10) Eng Studies	ineering Animation, Undergraduate Academic		
2.	P2411	Virtual	Production	i in Technologies of Plasti	c Deforming	(P00) Pro Studies	duction Engineering, Undergraduate Academic		
3.	BM119D	Revers engine	0	ing and rapid prototyping	in biomedical	(BM0) Bio Studies	medical Engineering, Undergraduate Academic		
4.	F402	Electro	onic Publish	ing		Studies	phic Engineering and Design, Master Academic		
5.	F504I0	3D Printing				(F00) Gra Studies	aphic Engineering and Design, Master Academic		
6.	NIT01	Innovative Product Development					Industrial Engineering - Advanced Engineering ologies, Master Academic Studies		
7.	P321	Reverse Engineering and Rapid Prototyping				(110) Indu	strial Engineering, Master Academic Studies		
8.	SM1061	lintegrated VR development environments for engineering applications			for	(PM0) Pro	PM0) Production Engineering, Master Academic Studies		
9.	DM411	Conter Engine	mporary Ap	proach to Integration of R apid Prototyping, Tools, Pr		(M00) Mechanical Engineering, Doctoral Academic Studies			
10.	DP001	Desigr Engine	and Rese	arch Methods in Productio	on	(M00) Me	chanical Engineering, Doctoral Academic Studies		
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)					
1.	burnishin	g tool to	achieve hi	nin O., Miljanić D., Jerem gh-quality surface finish, I 2012, ISSN 0268-3768	ić B., Bogdano DOI: 10.1007/si	vić B., Vuke 00170-012-4	Iić Đ.: Using specially designed high-stiffness 4508-2, International Journal of Advanced		
2.				sa K., Vilotić D., Movrin D. I, 2012, pp. 1247-1250, IS			analysis during bi-metallic coining operations,		
3.				n O., Stankovski S., Vukel h and Essays, 2011, Vol.			Lj.: An integral system for automated cutting tool SSN 1992-2248		
4.				n O., Budak I., Križan P., I , pp. 5787-5802, ISSN 19		ule-based sy	stem for fixture design, Scientific Research and		
5.							Glove Using Complex Static Gestures and an Vol. 55, No 4, pp. 230-236, ISSN 0039-2480		
6.	Vukelić D. Tadić B. Jocanović M. Lužanin O. Simeunović N. A System for Computer-Aided Selection of Cutting Tools Acta								
7.	7. Lužanin O., Plančak M.: Virtual reality technologies in virtual manufacturing-notes on current trends and applications , Journal for technology of Plasticity, 2008, Vol. 33, No 1-2, pp. 103-111.								
8.	forming te	echnolo					O.: Application of net shape and near-net shape nafts , Journal for technology of Plasticity, 2007,		
9.				nčak M., Trbojević I., Čup 05, Vol. 30, No 1-2, pp. 61			ring rolling in bearing production , Journal for		
10.							Characteristics of Gears by Application of Vol. 20, No 2, pp. 47-51, ISSN 0351-1642.		





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

Study Programme Accreditation

Production Engineering

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

Quotation total :	0			
Total of SCI(SSCI) list papers :	5			
Current projects :	Domestic :	1	International :	1



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Academic title: Full Professor Name of the institution where the teacher works full time and starting date: Faculty of Technical Sciences - Novi Sad Scientific or art field: Production Systems, Organization and Management Academic carieer Year Institution Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organization Academic title election: 2008 University of Novi Sad - Novi Sad Engineering Management Magister thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Undergradu Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (120) Engineering Management, Undergr Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies	Maksimović M. Rado			
Name of the institution where the teacher works full time and starting date: Faculty of Technical Sciences - Novi Sad Scientific or art field: Production Systems, Organization and Management Academic career Year Institution Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organization and Management Magister thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Magister thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Undergratitudes 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergratitudes 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergraditudes 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergraditudes 6. IMD				
starting date: 12.06.1979 Scientific or art field: Production Systems, Organization and Management Academic carleer Year Institution Field Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organization and Management Management: 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (I20) Environmental Engineering, Undergr Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (I20) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (I20) Engineering Management, Undergr Studies 5. IM1113 Improvement of products and processes (I20) Engineering Management, Undergr Studies 7. IMD60 Enterprise Complexity and Flexibility (I12) Industrial Engineering, Specialised (I				
Scientific or art field: Production Systems, Organization and Management Academic carlieer Year Institution Field Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organization and Management PhD thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (220) Environmental Engineering, Underg Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Underg Studies 4. IM1031 Enterprise's organization (120) Engineering Management, Underg Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Specialised (122) Engineering Management, Specialised (122				
Academic carleer Year Institution Field Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organi Management PhD thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Magister thesis 1989 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z00) Environmental Engineering, Undergr Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (120) Engineering Management, Undergr Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Specialised (122) Engineering Management, Specialised (122) Engineering Management, Specialised (122) Engineering Management, Specialised (122) Engineer				
Academic title election: 2008 University of Novi Sad - Novi Sad Production Systems, Organi Management PhD thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Magister thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes Engineering Management Engineering Management 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Undergr Studies 2. BM118C Medical management (BM0) Biomedical Engineering Management, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (112) Industrial Engineering, Specialised (122) Engineering Management, Undergr Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Specialised (122) Engineering Management, Specialised 6. IMDR0S Selected chapters in enterprise's design, organization (112) Industrial Engineering, Specialis				
PhD thesis 1998 Faculty of Technical Sciences - Novi Sad Engineering Management Magister thesis 1989 Faculty of Technical Sciences - Novi Sad Engineering Management Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Undergr Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradt Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDROS Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (122) Engineering Management, Specialised (122) Engineering Ma	zation and			
Bachelor's thesis 1978 Faculty of Technical Sciences - Novi Sad Engineering Management List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Underg Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Underg Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Underg Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradu Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDRos Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (122) Engineering Management, Specialised (122) Engineering Manageme				
List of courses being held by the teacher in the accredited study programmes ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Under Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradt Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDROS Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing perfor				
ID Course name Study programme name, study type 1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Under Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering Management, Undergr Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDR0S Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Acad				
1. Z421 Operacioni menadžment(uneti naziv na engleskom) (Z20) Environmental Engineering, Undergr Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradu Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDR0S Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca (H00) Mechatronics, Master Academic S (PM0) Production Engineering, Master Aca				
1. 2421 Operacion menagement (unet in2) via engleskom) Studies 2. BM118C Medical management (BM0) Biomedical Engineering, Undergr Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Undergr Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradu Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDR0S Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca (H00) Mechatronics, Master Academic S (PM0) Production Engineering, Master Aca				
2. Bit Hold Medical management Studies 3. IM1021 Developmental Processes in Company (120) Engineering Management, Underg Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradu Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergr Studies 6. IMDR0S Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. 1901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca 11. 1907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Studies	graduate Academic			
3. IM1021 Developmental Processes in Company Studies 4. IM1031 Enterprise's organization (110) Industrial Engineering, Undergradu, Studies 5. IM1113 Improvement of products and processes (120) Engineering Management, Undergradu, Studies 6. IMDR0S Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. 1901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca 11. 1907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Studies	aduate Academic			
4.IM1031Enterprise's organizationStudies (120) Engineering Management, Undergr Studies5.IM1113Improvement of products and processes(120) Engineering Management, Undergr Studies6.IMDR0SSelected chapters in enterprise's design, organization and control(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies7.IMDS60Enterprise Complexity and Flexibility(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies8.IMDS63Intelligent Organisation(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies9.IMDS65Entrepreneurship and Organizational Development(122) Engineering Management, Special Studies10.I901Manufacturing performace measurement(110) Industrial Engineering, Master Aca (110) Industrial Engineering, Master Academic S (PM0) Production Engineering, Master Academic S (PM0) Production Engineering, Master Academic S	raduate Academic			
5.IM1113Improvement of products and processes(120) Engineering Management, Undergr Studies6.IMDR0SSelected chapters in enterprise's design, organization and control(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies7.IMDS60Enterprise Complexity and Flexibility(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies8.IMDS63Intelligent Organisation(112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies9.IMDS65Entrepreneurship and Organizational Development(122) Engineering Management, Special Studies10.I901Manufacturing performace measurement(110) Industrial Engineering, Master Aca (110) Industrial Engineering, Master Academic S (PM0) Production Engineering, Master Academic S (PM0) Production Engineering, Master Academic S				
6. IMDROS Selected chapters in enterprise's design, organization and control (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Academic Studies 11. I907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Studies	20) Engineering Management, Undergraduate Academic			
6. IMDROS and control (122) Engineering Management, Special Studies 7. IMDS60 Enterprise Complexity and Flexibility (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Academic Studies 11. I907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Studies	Academic Studies			
7. IMDS60 Enterprise Complexity and Flexibility (122) Engineering Management, Special Studies 8. IMDS63 Intelligent Organisation (112) Industrial Engineering, Specialised (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Academic Studies 11. I907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Studies	ised Academic			
8. IMDS63 Intelligent Organisation (122) Engineering Management, Special Studies 9. IMDS65 Entrepreneurship and Organizational Development (122) Engineering Management, Special Studies 10. I901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca 11. I907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic Structure, Master Aca	(112) Industrial Engineering, Specialised Academic Studies(122) Engineering Management, Specialised Academic Studies			
9. INDS65 Entrepreneursing and Organizational Development Studies 10. 1901 Manufacturing performace measurement (110) Industrial Engineering, Master Aca 11. 1907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic S (PM0) Production Engineering, Master Academic S (PM0) Production Engineering, Master Academic S				
11. I907 Automated Assembly Systems for High Accuracy (H00) Mechatronics, Master Academic S (PM0) Production Engineering, Master Academic S	ised Academic			
11. 1907 Automated Assembly Systems for High Accuracy (PM0) Production Engineering, Master A	demic Studies			
12. IIDS10 Effective technological and production structures (122) Industrial Engineering Management, Special Studies	Academic Studies			
13. IIDS19 Organizational structures (I12) Industrial Engineering, Specialised 13. IIDS19 Organizational structures (I22) Engineering Management, Special Studies				
14. IIDS5 Selected chapters in enterprise's design, organization and control (112) Industrial Engineering, Specialised	Academic Studies			
	 (I12) Industrial Engineering, Specialised Academic Studies (I22) Engineering Management, Specialised Academic Studies 			
16. IM2102 Manufacturing strategy (KAIZEN, LEAN, KANBAN, (M50) Energy Management, Master Aca	 (110) Industrial Engineering, Master Academic Studies (M50) Energy Management, Master Academic Studies (I20) Engineering Management, Master Academic Studies 			
17. IM2103 New technologies in engineering and management (I10) Industrial Engineering, Master Aca (I20) Engineering Management, Master Aca				

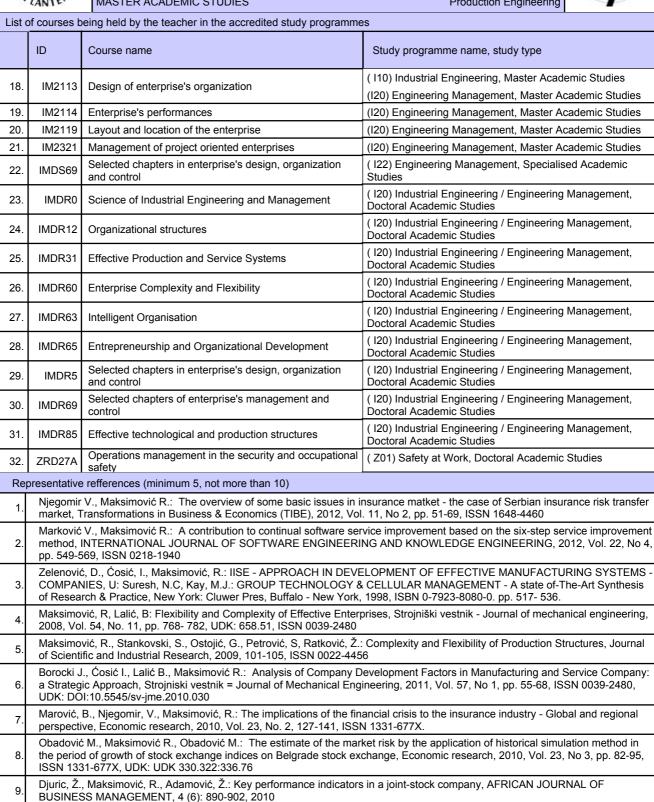


FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering



Radišić, O., Radišić, M., Maksimović, R. et al. 2012. Industrial Cogeneration Appliance -- An Example of a Drilling Rig. J Can Pet

2

International

Technol 51 (6): 487-492. SPE-157689-PA. http://dx.doi.org/10.2118/157689-PA.

8

11

Domestic :

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

Total of SCI(SSCI) list papers :

10

Quotation total

Current projects

1



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Name and last name:					Milanović N. Nikola			
	emic title:				Assistant Professor			
Name of the institution where the teacher works full time and								
	ng date:							
Scier	ntific or art f	ield:		ſ	Applied Comp	outer Sciend	ce and Informatics	
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2010	Faculty of Technical Sci	ences - Novi Sa	ad	Applied Computer Science and Informatics	
PhD	thesis		2003				Applied Computer Science and Informatics	
Bach	elor's thesis	S	1995				Applied Computer Science and Informatics	
	ster thesis		-				Applied Computer Science and Informatics	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	F209	Multim	edia			(F00) Gra Academic	phic Engineering and Design, Undergraduate Studies	
2.	ISIT21	Interne	et mreže				vare and Information Technologies (Inđija), luate Professional Studies	
3.	ISIT2D	Web d	esign				vare and Information Technologies (Inđija), luate Professional Studies	
							tware Engineering and Information Technologies, luate Academic Studies	
4.	SE0008	Algorithms and Data structures				(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
							er, Electronic and Telecommunication Ig, Undergraduate Academic Studies	
5.	SE0016	Databa	2606		(SE0) Software Engineering and Information T Undergraduate Academic Studies		tware Engineering and Information Technologies, luate Academic Studies	
5.	320010	Databa	4363			(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
6.	SES102	NoSO	L Data Bas	e s			tware Engineering and Information Technologies, luate Academic Studies	
0.	323102	NUOQ					tware Engineering and Information Technologies - Indergraduate Academic Studies	
7.	SES201	Advan	ced Web T	echnologies			tware Engineering and Information Technologies, luate Academic Studies	
1.	323201	Auvan					tware Engineering and Information Technologies - Indergraduate Academic Studies	
8.	SES302	12 High Technology Management				(SE0) Sof Undergrad	tware Engineering and Information Technologies, luate Academic Studies	
0.	020002						tware Engineering and Information Technologies - Indergraduate Academic Studies	
						(E20) Cor Academic	nputing and Control Engineering, Master Studies	
9.	E2506	Advan	ced Interne	t Infrastructure			tware Engineering and Information Technologies, ademic Studies	
							er, Electronic and Telecommunication ng, Master Academic Studies	
						(E20) Cor Academic	nputing and Control Engineering, Master Studies	
10.	E2513	Semar	ntic Web			(PM0) Pro	oduction Engineering, Master Academic Studies	
						· · ·	tware Engineering and Information Technologies, ademic Studies	



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

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

	ID	Course name		Study programme name, study type				
				(E20) Computin Academic Studie	ig and Control Engineering, I es	Master		
				(MR0) Measure Academic Studie	ment and Control Engineerir	ng, Master		
11.	E2519	Domain-Specific Languages		(PM0) Productio	on Engineering, Master Acad	lemic Studies		
				(SE0) Software Master Academi	Engineering and Information	n Technologies,		
				(E10) Power, Electronic and Telecommunication Engineering, Master Academic Studies				
10	50500	Convine Oriented Architectures	(E20) Computing and Control Engineering, Master Academic Studies					
12.	E2526	Service Oriented Architectures	(SE0) Software Engineering and Information Technologies, Master Academic Studies					
Rep	oresentative	e refferences (minimum 5, not more th	an 10)					
1.	N. Milano	ovic, M. Malek. Current Solutions for V	Veb Service Compositi	ion. IEEE Internet	t Computing, 8(6):51-59, 200	04. (SCI 11/86)		
2.		ovic, M. Malek, A. Davidson, V. Milutin . (SCI 16/86)	ovic. Routing and Sec	urity in Mobile Ad	Hoc Networks. IEEE Comp	uter, 37(2):61-		
3.		ovic, M. Malek. Search Strategies for / n, 3(2):1-32, 2006. (SCI 37/86)	Automatic Web Service	e Composition. In	ternational Journal of Web S	ervices		
4.	N. Milano 4(1):56-6	ovic, B. Milic. Automatic Generation of 9 , 2011	Service Availability M	odels. IEEE Tran	sactions of Service Computi	ng, 2010.		
5.		N. Milanovic, J. Richling, V. Stantche ssue on Embedded Systems, 152(5):2			bots Community. IEE Procee	edings Software,		
Sur	nmary data	for teacher's scientific or art and profe	essional activity:					
Quot	ation total :		0					
Tota	of SCI(SS	CI) list papers :	0					
Curre	ent projects	:	Domestic :	0	International :	0		



State State

Study Programme Accreditation

Production Engineering

Name and last name:					Milošević P. Mijodrag			
Acad	emic title:				Assistant Professor			
Name	e of the inst	itution w	where the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
startir	ng date:				01.03.1998			
Scientific or art field:			Tecnological Process Design and Optimization and Technical Preparation					
Acad	emic cariee	er	Year	Institution			Field	
Acad	emic title el	ection:	2012	Faculty of Technical Sci	ences - Novi S	ad	Tecnological Process Design and Optimization and Technical Preparation for Manufacturing	
PhD	thesis		2012	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design	
Magi	ster thesis		2005	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design	
Bach	elor's thesis	6	1997	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
List o	of courses b	eing hel	d by the te	acher in the accredited stu	udy programme	s		
	ID	Course	e name			Study pro	gramme name, study type	
1.	P1403	Integra	ated CAPP	Systems and Technologic	al Database	(P00) Proo Studies	duction Engineering, Undergraduate Academic	
2.	P1503	Techno	ological Lo	gistics and Entrepreneurs	hip	(P00) Proo Studies	duction Engineering, Undergraduate Academic	
3.	P308	Proces	s Planning			Studies	duction Engineering, Undergraduate Academic	
4.	P4408			in Small and Medium Ent	-	(P00) Production Engineering, Undergraduate Academic Studies		
5.	P320	Technological Preparation of Production in Precision Engineering			Precision	Studies	duction Engineering, Undergraduate Academic	
6.	GM502	-		Construction			Engineering, Master Academic Studies	
7.	P1506	6 Internet Technologies in Production Engineering			ering	· ,	duction Engineering, Master Academic Studies	
8.	P315		ent Proces				duction Engineering, Master Academic Studies	
9.	PLIS1	Proces		ulation in Technologies of	Plastics	(PM0) Production Engineering, Master Academic Studies		
10.	SM1			ware Tools for Collaborati	-	(PM0) Production Engineering, Master Academic Studies		
11.	DP001	Design Engine		arch Methods in Productic	on	(M00) Mechanical Engineering, Doctoral Academic Studies		
12.	DP017			s in e-Manufacturing		(M00) Mechanical Engineering, Doctoral Academic Studies		
13.	DP018		n Approach ation of Pro	n in Development Technolo oduction	ogical	(M00) Mechanical Engineering, Doctoral Academic Studies		
14.	DP022	Collab	orative Eng	jineering		(M00) Mechanical Engineering, Doctoral Academic Studies		
15.	ZRD232	Logisti	cs in the S	ecurity Services and Healt	th at Work	(Z01) Safe	ety at Work, Doctoral Academic Studies	
Rep	presentative	reffere	nces (minir	num 5, not more than 10)				
1.							ding Tool Vibrations of Tool Wear and Chip Slovakia, 21th 23th June 2012.	
2.				ić, J., Milošević, M., Lukić, talurgija, ISSN 0543-5846			thod for Evaluation and Selection of Flexible 3, 2012.	
3.	Metalurgi	ja, ISSN	0543-584	6, Vol. 51, No. 2, pp. 269-	272, 201Ž.		Justification of Group Blanks Application,	
4.	Cylinder	Assemb	ly of Intern	al compustion Engines, M	etalurgija, IŠSN	0543-5846	lanks in CAPP System for Parts of Piston- 5, Vol. 51, No. 1, pp. 75-78, 2012.	
5.	ISSN 182	1-4932,	Vol.15, No	o.1, pp.45-48, Faculty of T	echnical Scien	ce, Departm	ess Planning, Journal of Production Engineering, tent of Production Engineering, Novi Sad, 2012.	
6.	for Polym	er Injec	tion Mold N	lanufacturing, Metalurgija,	, ISSN 0543-58	46, Vol.50,		
7.							ocess Planning, 34th International Conference on culty of Mechanical Engineering, Niš, September	
-+	2011. 8. Todić, V., Penezić, N., Lukić, D., Milošević, M.: Tehnološka logistika i preduzetništvo, FTN Izdavaštvo, ISBN 978-86-7892-368-5,							



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

Study Programme Accreditation



Re	Representative refferences (minimum 5, not more than 10)								
9.	 Milošević, M., Todić, V., Lukić, D.: Model Development of Collaborative System for Process Planning, Proceedings of The International Scientific Conference "Flexible Technologies" - MMA, ISBN 978-86-7892-223-7, pp. 170 - 173, Faculty of Technical Science, Department for Production Engineering, Novi Sad, October 2009. 								
10.		ukić, D., Stević, M., Milošević, M.: I SN 0025-5289, Vol. 45, No. 4, pp. 3		m for Plastic Inje	ction Mold Manufacturing, N	lateriale			
Su	mmary data fo	or teacher's scientific or art and profe	essional activity:						
Quo	Quotation total : 8								
Total of SCI(SSCI) list papers : 5									
Current projects : Domestic : 0 International : 2						2			



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

To an and the second

Study Programme Accreditation

Production Engineering

N					0-t-#(M_0-			
	e and last n	ame:			Ostojić M. Gordana Assistant Professor			
	lemic title:		, <i></i> .					
	e of the insi ng date:	itution v	vhere the te	eacher works full time and	,	chinical Scie	nces - Novi Sau	
	ntific or art f	ield [.]			06.03.2000 Mechatronics, Robotics and Automation and Integral Systems			
	lemic carie		Year	Institution	Field			
	lemic title el		2008	Faculty of Technical Sci	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Integral Systems	
PhD	thesis		2008	Faculty of Technical Sci	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Intelligent Systems	
Magi	ster thesis		2003	Faculty of Technical Sci	ences - Novi Sa	ad	Mechatronics, Robotics and Automation and Intelligent Systems	
Bach	elor's thesis	s	1999	Faculty of Technical Sci	ences - Novi Sa	ad	Quality, Effectiveness and Logistics	
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.	H1403	Autom	ation of wo	rk processes		(H00) Med	chatronics, Undergraduate Academic Studies	
4.	H1501A	Syster	ns for Surva	ailance and Visualisation of	of Process	, ,	chatronics, Undergraduate Academic Studies	
5.	H1504	Compu	uter Integra	tion of Production System	s	(H00) Med	chatronics, Undergraduate Academic Studies	
6.	H310	Compo	onents of te	chnological systems			chatronics, Undergraduate Academic Studies	
7.	BM116B	Acquis	ition, analy	sis and monitoring of med	lical data	(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
8.	BM116C	Motion control				(BM0) Biomedical Engineering, Undergraduate Academic Studies		
9.	BM119C	Automatic identification in bioengineering				(BM0) Bio Studies	medical Engineering, Undergraduate Academic	
10.	BMI106	Rehab	ilitation dev	rices and systems		(BM0) Biomedical Engineering, Undergraduate Academic Studies		
11.	II1009	Autom	atic identific	cation systems		(110) Indus Studies	strial Engineering, Undergraduate Academic	
12.	II1010	Contro	ol of technic	al systems		(110) Indus Studies	strial Engineering, Undergraduate Academic	
13.	II1015	Progra	immable Lo	gic Controllers (PLC)		(I10) Indus Studies	strial Engineering, Undergraduate Academic	
14.	II1029	Compu	uter integrat	ted manufacturing		Studies	strial Engineering, Undergraduate Academic	
15.	II1045	Syster	ns for meas	surement, surveillance and	d control	Studies	strial Engineering, Undergraduate Academic	
16.	II1048	Artificia	al intelligen	ce in engineering		Studies	strial Engineering, Undergraduate Academic	
17.	IM1022	Funda	mentals of	technical systems control		Studies	neering Management, Undergraduate Academic chanization and Construction Engineering,	
18.	IM1035	Identifi	ication tech	nologies in enterprises		Undergrad	uate Academic Studies neering Management, Undergraduate Academic	
-						Studies (I20) Engir	eering Management, Undergraduate Academic	
19.	IM1117	Compi	uter integrat	ted manufacturing (CIM)		Studies	chatronics, Master Academic Studies	
20.	H1503			botics and Automation in I	-		strial Engineering, Master Academic Studies	
21.	HDOS12	Resea techno		rea of automatic identifica	ition	· ,	strial Engineering, Specialised Academic Studies	
22.	HDOS13	Motion	control and	d application of MEMS			strial Engineering, Specialised Academic Studies	
23.	HDOS14	Nonindustrial automation				(112) Indus	strial Engineering, Specialised Academic Studies	



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



Study Programme Accreditation

MASTER ACADEMIC STUDIES

List of courses be	ing held by the	e teacher in the	accredited study	programmes

LIST	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	 (112) Industrial Engineering, Specialised Academic Studies (122) Engineering Management, Specialised Academic Studies 				
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	(110) 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	(112) 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	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. {	actic Manipulator in Mechatronics and Industrial Engineering 572-579, ISSN 0018-9359				
2.	success f	Stankovski S., Ostojić G., Tešić Z., Miladinović Lj.: Method factors – a case study in oil and gas industries (DOI:10.1080 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 Id 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 31-3773					
7.		., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič nvironment, Assembly Automation, 2011, Vol. 31, No 1, pp	J., Simeunović N.: Machining fixture assembly/disassembly . 62-68, ISSN 0144-5154				
8.	Ostojić, G	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,				

SIT	AS STUD		UNIVERSITY OF NO	VI SAD		WHKHX H		
M	(IN BALL	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSIT	EJA OBRADOVIĆA 6	STATE OF		
0.20	200 C 2	Study F	Study Programme Accreditation					
'Op	ANTEN	MASTER ACADEMIC STUDIES			Production Engineering	HOS		
Rep	resentative re	efferences (minimum 5, not more th	an 10)					
10.		ntinović B., Miladinović Lj., Stoimeno DN OF THE REMONTOIRE MECHA						
Sum	nmary data fo	r teacher's scientific or art and profe	essional activity:					
Quota	ation total :		25					
Total of SCI(SSCI) list papers : 17								
Curre	nt projects :		Domestic :	3	International :	2		



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

Study Programme Accreditation



Production Engineering

Name and last name:			Plančak E. Miroslav						
-	emic title:				Full Professor				
		titution v	vhere the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				01.01.1975				
Scier	ntific or art f	ield:			Plastic Deform	Plastic Deformation Technology, Rapid Prototyping, Virtual			
Acad	emic caries	er	Year	Institution			Field		
Acad	emic title e	lection:	1995	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
PhD	thesis		1985	Faculty of Technical Science	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
Magi	ster thesis		1979	Faculty of Technical Science	ences - Novi S	ad	Plastic Deformation Technology		
Bach	elor's thesi	S	1969	Faculty of Technical Science	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual		
List o	of courses b	eing he	ld by the tea	acher in the accredited stu	udy programme	s			
	ID	Course	e name			Study pro	gramme name, study type		
1.	IA016	Introdu	uction to Vir	tual Reality Technology		(F10) Eng Studies	ineering Animation, Undergraduate Academic		
2.	P207	Metal	forming			(P00) Prod Studies	duction Engineering, Undergraduate Academic		
3.	P2401			ds in Metal Forming		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
4.	P2413	Compu Formir		Design of Tools and Dies f	or Metal	Studies	200) Production Engineering, Undergraduate Academic udies		
5.	P303			cessing by Deforming		(P00) Production Engineering, Undergraduate Academic Studies			
6.	P3403	Technology of Plastic Forming - Shaping of plast material			plastic	(P00) Production Engineering, Undergraduate Academic Studies			
7.	P3503			vices for Plastic Processir		Studies	duction Engineering, Undergraduate Academic		
8.	BM119D	Revers engine		ing and rapid prototyping	in biomedical	Studies	medical Engineering, Undergraduate Academic		
9.	M2062	Mecha	inical engin	eering technologies 2		Undergrad (M40) Tec	chanization and Construction Engineering, uate Academic Studies chnical Mechanics and Technical Design, uate Academic Studies		
10.	P2407	Rapid	Prototypina	and Rapid Tooling		(PM0) Production Engineering, Master Academic Studies			
11.	P3501		esigning fo			(PM0) Production Engineering, Master Academic Studies			
12.	P3503A	Conter	mporary Pro	ocess Systems for Plastic	Treatment	(PM0) Production Engineering, Master Academic Studies			
13.	NIT01	Innova	tive Produc	ct Development			strial Engineering - Advanced Engineering ies, Master Academic Studies		
14.	BMIM4B	Techn	ologies of s	haping biomedical materia	als	· /	medical Engineering, Master Academic Studies duction Engineering, Master Academic Studies		
15.	MIA11	Machir	nes and die	s for powder forming			duction Engineering, Master Academic Studies		
16.	P321			ring and Rapid Prototyping	g	,	strial Engineering, Master Academic Studies		
17.	PMISP1		•	nulation of Metal Forming			duction Engineering, Master Academic Studies		
18.	DM411	Conter Engine	mporary Ap	proach to Integration of Rapid Prototyping, Tools, Pr	everse	, ,	chanical Engineering, Doctoral Academic Studies		
19.	DP001	Desigr Engine	n and Resea	arch Methods in Productio		(M00) Med	chanical Engineering, Doctoral Academic Studies		
20.	DP005	Quality	/ and Equip		etrology,	(M00) Mechanical Engineering, Doctoral Academic Studies			
21.	DP008			ethods and TPD Systems		, ,	chanical Engineering, Doctoral Academic Studies		
22.	DP012			g and TPD Simulation by		, ,	chanical Engineering, Doctoral Academic Studies		
23. 24.	DP015 DP027			Procedures of Forming in logies of plastics packiging		, ,	chanical Engineering, Doctoral Academic Studies chanical Engineering, Doctoral Academic Studies		
		manuf	acturing		-	· ,			
25.	DP029	Advanced Development of Polymeric Products			icts	(M00) Mea	chanical Engineering, Doctoral Academic Studies		



Study Programme Accreditation

6	PLANTEN	MASTER ACADEMIC STUDIES	-		Production Engineering	A HOB			
Rep	Representative refferences (minimum 5, not more than 10)								
1.	Essa K., Kacmarcik I., Hartley P., Plancak M., Vilotic D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing Technology, 2012, Vol 212, Nr 4, pp. 817-824, ISSN/ISBN: 0924-0136								
2.	 Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, Experimental Mechanics, 2006, Vol 46, pp. 115-120, ISSN: 0014-4851 								
3.		Bramley A. N., Osman F. H.: Som laterial and Processing Technology				ulk metal forming,			
4.		Bramley A. N Osman F. H.: Non 65-472, ISSN/ISBN: 0924-0136	conventional cold extr	usion, Journal of	Material and Processing Te	echnology 34,			
5.	Hiroši I., Plančak M.: Coining process as a means of controlling surface microgeometry, Journal of Material Processing Technology, Vol 80-81, 1998, pp. 101-107, ISSN/ISBN: 0924-0136								
6.		Vollertsen F., Woitschig J.: Analys g, Journal of Material Processing T	,		5				
7.		., Plančak M.: On possibilities for the cessing Technology, Vol 125-126,				es, Journal of			
8.		Stress distribution within specimer p. 387-394, ISSN/ISBN: 0924-0136		sion of steel, Jour	nal of Materials Processing	g Technology, Vol			
9.		lexandrov S., Plancak M., Vilotic M teel Research International Specia				Sylindrical and			
10.	Plancak M, Hartley P, Essa K, Vilotic D, Movrin D, Luzanin O, Deformation analysis during himetallic coining operations. Steel								
Sur	Summary data for teacher's scientific or art and professional activity:								
Quot	ation total :		92						
	of SCI(SSCI)	list papers :	23		r	_			
Curre	rrent projects : Domestic : 1 International : 2								



Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Nam					0 1 1 (1 - 14				
						Vilenko			
					Associate Professor Faculty of Technical Sciences - Novi Sad				
	e of the inst ng date:	itution v	vhere the te	acher works full time and	,	cnnical Scie	nces - Novi Sad		
	ntific or art fi	old.			14.03.1994 Processes for	Processes for Material Removal Processing			
	emic cariee		Year	Institution	1100003003101	Material IX	Field		
					anaga Navi S	. d			
	emic title el thesis	ection.	2012	Faculty of Technical Sci Faculty of Technical Sci			Processes for Material Removal Processing		
			2007	Faculty of Technical Sci Faculty of Technical Sci			Processes for Material Removal Processing		
	ster thesis elor's thesis		1998 1993	,			Processes for Material Removal Processing		
				Faculty of Technical Sci			Processes for Material Removal Processing		
LISU		eing ne	id by the tea	acher in the accredited stu	udy programme	.5			
	ID	Course	e name			Study pro	gramme name, study type		
1.	P1406	Theory	y of Machini	ng Processes		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
2.	P1507	Inovati	ional Techn	ologies		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
3.	P208	Techn	ology for Cu	utting Processing		(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P305	Nonco	nventional	Procedures in Processing		(P00)Proo Studies	duction Engineering, Undergraduate Academic		
5.	P4410	Desigr	n and Produ	ict Functionality		(P00)Proo Studies	Production Engineering, Undergraduate Academic		
6.	P316A	Techn	ology for Mi	crocutting Processes		(P00) Production Engineering, Undergraduate Academic Studies			
7.	. P1501 Ecological Technologies and Systems				Academic	hnical Mechanics and Technical Design, Master Studies duction Engineering, Master Academic Studies			
8.	P1505	Model	ling and Sin	nulation in Processing		(PM0) Pro	duction Engineering, Master Academic Studies		
9.	P1509	Highly	Productive	Processing		(PM0) Production Engineering, Master Academic Studies			
10.	P3502	Mold a	and die mac	hining technology		(PM0) Production Engineering, Master Academic Studies			
11.	P4410A	Produc	ction Desigr	า		(PM0) Production Engineering, Master Academic Studies			
12.	PP101	Intelige	ent Forming	Processes		(PM0) Production Engineering, Master Academic Studies			
13.	ZRMI2A	Produc	ct safety an	d user/consumer protecti	on	(Z01) Safety at Work, Master Academic Studies			
14.	DP001	Engine	eering	arch Methods in Productic		(M00) Mechanical Engineering, Doctoral Academic Studies			
15.	DP002			n Forming by Material Ren		(M00) Mechanical Engineering, Doctoral Academic Studies			
16.	DP009	Remo	•	ce Application in Forming	by material	(M00) Meo	chanical Engineering, Doctoral Academic Studies		
17.	DP020	State a Formir	and Tenden			(M00) Med	chanical Engineering, Doctoral Academic Studies		
18.	DP021	Materi	al Removal		ing by	· ,	chanical Engineering, Doctoral Academic Studies		
19.	ZRD211			n and product safety		(Z01) Safe	ety at Work, Doctoral Academic Studies		
Rep	presentative	reffere	nces (minin	num 5, not more than 10)					
1.				Sekulić M., Škorić B.: Influ 26, No 1, pp. 173-179, ISS		rge energy o	on machining characteristics in EDM, J MECH		
2.				ić M.: Rotatable Central (alurgija, 2011, Vol. 50, No			iments versus Taguchi Method in the 5846		
3.		eat Cor	nduction An				Fhermal State in Creep-Feed Grinding Using gineering, 2011, Vol. 57, No 10, pp. 730-738,		
4.	Gostimirović M., Kovač P., Sekulić M.: An inverse heat transfer problem for optimization of the thermal process in machining,								
5.				Korić B., Sekulić M.: Effe 011, Vol. 18, No 6, pp. 41			neters on the Machining Performance of EDM,		

c	TAS STUR		UNIVERSITY OF NO	VI SAD		WKWX L	
AN AN	NON CONCERNING	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSI	TEJA OBRADOVIĆA 6	STATE	
2		Study F	Programme A	ccreditati	on	To a	
6	PLANTER	MASTER ACADEMIC STUDIES			Production Engineering	AND HOD	
Re	presentative re	efferences (minimum 5, not more th	an 10)				
6.		Jurković Z., Hadžistević M., Gostim g force in face milling, Metalurgija, 2				aterial on the	
7.		Kovač P., Gostimirović M.: Drilling r University Studies, Cracow Univer					
8.		Gostimirović M., Sekulić M., Pižurica ngineering, 2010, Vol. 10, No 2, pp.			for Cutting Regime Setting,	Journal of	
9.		Kovač P.: Modelling of component 2, pp. 65-72, ISSN 1895-7595	s of resultant force du	ring face milling	, Journal of Machine Engi	neering, 2008,	
10.		Sekulić, M., Gostimirović, M., Uzela pisa: Časopis Jugoslovenskog druš				eličinu sila rezanja	
Su	mmary data fo	r teacher's scientific or art and profe	essional activity:				
Quotation total : 40							
Tota	I of SCI(SSCI)	list papers :	6				
Curr	ent projects :		Domestic :	1	International :	3	



A ROAD

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Name and last name: Sovili N. Bogdan										
	lemic title:	ame.					Full Professor			
								ences - Novi Sad		
	e of the insi	litution v	vnere the te	eacher works full time	e and	05.01.1973				
						Cutting Processing Tools and Tribology				
	Academic carieer Year Institution					<u> </u>	Field			
Acad	lemic title e	lection:	1998	Faculty of Technica	al Scie	ences - Novi S	ad	Cutting Processing Tools and Tribology		
	thesis		1988	Faculty of Technica				Cutting Processing Tools and Tribology		
Magi	ster thesis		1980	Faculty of Technica				Cutting Processing Tools and Tribology		
	elor's thesi	s	1972	Faculty of Mechani	ical E	ngineering - No	ovi Sad	Cutting Processing Tools and Tribology		
List c	of courses b	eing he	ld by the te	acher in the accredite						
	ID	Course	e name				Study pro	ogramme name, study type		
1.	P1404	Tribod	iagnostics a	and Maintenance			(P00) Pro Studies	duction Engineering, Undergraduate Academic		
2.	P1502A	Tribolo	ogy				(P00) Pro Studies	duction Engineering, Undergraduate Academic		
3.	P302	Tools	for Cutting	Processing			(P00) Pro Studies	duction Engineering, Undergraduate Academic		
4.	P4409		ion Method				Studies	duction Engineering, Undergraduate Academic		
5.	P1502B	Conter	mporary To	ols in CIM Systems			, ,	oduction Engineering, Master Academic Studies		
6.	BMIM4F	Biotrib					· ,	medical Engineering, Master Academic Studies		
7.	PP103			d tools in precision er			, ,	oduction Engineering, Master Academic Studies		
8.	SMI003			for cutting tools and		<u> </u>	, ,	oduction Engineering, Master Academic Studies		
9.	DM421	M421 Design and Expoitation of Metal Cutting Machine Tools				chine Tools	, ,	chanical Engineering, Doctoral Academic Studies		
10.	DM422	Tribolo	0,	and maintenance of t	a la va i a		(M00) Mechanical Engineering, Doctoral Academic Studies			
11.	ZRD21		ed chapters	and maintenance of t	ennic	ai systems-	(Z01) Safe	ety at Work, Doctoral Academic Studies		
Rep	oresentative	e reffere	nces (minin	num 5, not more thar	า 10)					
1.				ovi Sad, Univerzitet u Iruštvo za tribologiju,			n OJ Izdava	ačka delatnost, FTN-Institut za proizvodno		
2.	Sovilj. B.	Identifi	kacija tribol	oških procesa pri odv	valno	m glodanju, No	vi Sad, IPN	1, FTN, 1988.		
3.				ć D., Measurement M Metalurgija, Vol. 50, N				and Election of Materials of Elements of 0543-5846		
4.				BIĆ, M., NIKIĆ, Z.:, R n wear criterion, Trib				d cutting speed by uncoated and coated end str. 105- 110,		
5.				šić, D., The effect of s rgija, Vol. 51, No. 1, p				aterial and coating on tribological and protective 46		
6.	hob millir	ng tools,	Tribology i	n industry, 1999, Vol	. 21, I	No. 2, str. 53- 5	58,,	rocess on the occurence of cutting edge break by		
7.	milling to	ol in dep	pendence o	n wear criterion, Trib	ology	in industry, 19	98, Vol. 4, s			
8.	hob millir	ng tools,	Tribology i	n industry, 1998, Vol	. 3, st	tr. 73- 78,,	0 01	rocess on the occurence of cutting edge break by		
9.	elements	of hob	milling tools	s in model and real co	onditi	ons, 2-nd Worl	d Tribology	gical processes on uncoated and coated cutting Congress, Vienna, Austria: 2001,		
10.	10. Sovilj-Nikić, I., Sovilj, B., Kandeva, M., Gajić, V., Sovilj-Nikić, S., Legutko, S., Kovač, P., Tribological characteristics of hob milling tools from economical aspect, Journal of the Balkan Tribological Association, Vol.18, No. 4, pp. 577-585, 2012, ISSN 1310-4772									
		for teac	her's scien	tific or art and profes		l activity:				
	ation total :	<u></u>		3						
	of SCI(SS		apers :		3	atio :	1			
Current projects : Domestic : 1 International : 2										



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

State State

Study Programme Accreditation

Production Engineering

	e and last n	ame:				Šiđanin P. Leposava					
Academic title:						Emeritus Professor					
	e of the inst ng date:	itution w	where the te	acher works full time	e and	Faculty of Technical Sciences - Novi Sad					
	ntific or art f	old:				01.10.2012 Material Science and Engineering Materials					
			Voor	Institution		Material Science and Engineering Materials					
Academic carieer Year Institution						diamana Navi Ord					
Academic title election: 2008				Faculty of Technical Sciences - Novi Sa Faculty of Natural Sciences and Engine				Material Science and Engineering Materials			
			1983	Ljubljana Faculty of Natural Sciences and Engin			-	Metallurgical Engineering			
Magister thesis			1976	Ljubljana Faculty of Natural Sciences and Engin			-	Metallurgical Engineering			
	Bachelor's thesis 1965 Ljubljana							Metallurgical Engineering			
List of courses being held by the teacher in the accredited study programmes											
	ID Course name						Study programme name, study type				
1.	P2501	Proces	Process Design in Welding Technology (PM0) Production Engineering, Master Academic Studies								
2.	P2502	Properties and Selection of Materials (PM0) Production Engineering, Master Academic Studi									
3.	PTS01		ology of sin				(PM0) Production Engineering, Master Academic Studies				
4.	DP001	Design Engine		arch Methods in Pro	ductio	n	(M00) Me	chanical Engineering, Doctoral Academic Studies			
5.	DP016	Advan	ced Chara	cterization of Materi	ials	(M00) Me	chanical Engineering, Doctoral Academic Studies				
6.	DP023	Joining	g technologi	es - selected topics			(M00) Me	chanical Engineering, Doctoral Academic Studies			
7.	DP024	Welding technology - selected topics (M00) Mechanical Engineering, Doctoral Academic Studi									
8.											
Representative refferences (minimum 5, not more than 10)											
1.	Baloš S. Šiđanin (Sidianin) L. Metallographic study of non-homogenousarmour impacted by armour-piercing incendiary										
2.	Šiđanin (Sidjanin) L., Rajnović D., Erić O., Smallman R.: Austempering study of unalloyed and alloyed ductile irons, Materials Science and Technology, 2010, Vol. 26, No 5, pp. 567-571, ISSN 0267-0836										
3.	Šiđanin (Sidjanin) L., Rajnović D., Ranogajec J., Molnar E.: Measurement of Vickers hardness on ceramic floor tiles, Journal of the European Ceramic Society, 2007, Vol. 27, pp. 1767-1773, ISSN 0955-2219										
4.	L. Sidjanin, R. E. Smallman, J. M. Young: Electron Microstructure and Mechanical Properties of Silicon and Aluminium Ductile Irons, Acta Metallurgica and Materials, Vol. 42 No9 (1994) 3149-3156										
5.	L. Sidjanin, R. E Smallman: Metallography of Bainitic Transformation in Austempered Ductile Iron, Materials Science and Technology, Vol.8 (1992) 1095-1103										
6.	Baloš S., Šiđanin (Sidjanin) L.: Microdeformation of soft particles in metal matrix composites, Journal of Materials Processing Technology, 2009, pp. 482-487, ISSN 0924-0136										
7.	Šiđanin (Sidjanin) L., Kovač P.: Fracture mechanisms in chip formation processes, Materials Science and Technology, 1997, Vol. 13, pp. 439-444, ISSN 0267-0836										
8.	Lukić-Petrović S., Petrović D., Skuban F., Šiđanin (Sidjanin) L., Gut I.: The morphologies of fractured surfaces and fracture toughness in some As–Se–Sb–S–I glasses, Applied Surface Science, 2006, Vol. 252, pp. 7917-7920										
9.	Šiđanin (Sidjanin) L., Smallman R.: Metallography of Bainitic Transformation in Austempered Ductile Iron, Materials Science and Technology, 1992, Vol. 8, pp. 1095-1103, ISSN 0267-0836										
10.	O Erić D. Painović S. Zoc L. Sidianin, T. Jovanović: Microstructure and fracture of alloved austempored ductile iron. Materials										
Summary data for teacher's scientific or art and professional activity:											
	ation total :				149						
Total	of SCI(SSC	CI) list p	apers :		41						
Current projects : Domestic : 2 International : 0								International : 0			



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Nam	e and last n	ame:			Škorić N. Branko						
Acad	lemic title:				Full Professor						
Nam	e of the inst	itution v	vhere the te	eacher works full time and	Faculty of Te	Faculty of Technical Sciences - Novi Sad					
starti	ng date:				21.03.1985	· · · · · · · · · · · · · · · · · · ·					
Scier	ntific or art f	ield:	_		Surface Engineering, Micro and Nano Technologies						
Acad	lemic cariee	er	Year	Institution			Field				
			2011	Faculty of Technical Sci	ences - Novi S	ad	Surface Engineering, Micro and Nano Technologies				
PhD thesis			2001	Faculty of Technical Sci	ences - Novi S	ad	Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano				
Magister thesis			1994	Faculty of Technical Sci	ences - Novi S	ad	Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano				
Bachelor's thesis			1984	Faculty of Technical Sci	ences - Novi S	ad	Casting and Thermal Processing Technology and Surface Engineering, Micro and Nano				
List of courses being held by the teacher in the accredited study programmes											
	ID	Course	e name			Study pro	ogramme name, study type				
1.	P105	Heat F	Processing			(P00) Production Engineering, Undergraduate Academic Studies					
2.	P110	Castin	g Technolo	ду		(P00) Production Engineering, Undergraduate Academic Studies					
3.	P210	Surfac	e Engineer	ing		(P00) Production Engineering, Undergraduate Academic Studies					
4.	P211	Device Engine		ma Procedures in Mechar	nical	(P00) Production Engineering, Undergraduate Academic Studies					
5.	P2402	Desigr	ning of Ther	mal Processing Technolo	gies	(P00) Production Engineering, Undergraduate Academic Studies					
6.	P2403	Conter	mporary Ca	sting Technologies		(P00) Production Engineering, Undergraduate Academic Studies					
7.	P3401	Chara	cteristics ar	nd Application of Plastic M	aterials	(P00) Production Engineering, Undergraduate Academic Studies					
8.	P3405	Therm	al Processi	ng of Contemporary Tools	3	(P00) Production Engineering, Undergraduate Academic Studies					
9.	II1001	-	eering mate			(110) Industrial Engineering, Undergraduate Academic Studies					
10.	ZRI42A	treatm	ent of meta		mical	(Z01) Safety at Work, Undergraduate Academic Studies					
11.	P2503	Proces	ss Design ir	n Casting Technology		(PM0) Production Engineering, Master Academic Studies					
12.	P2507	Nanote	echnologies	3	Academic Studies						
							oduction Engineering, Master Academic Studies				
13.	PP2I11			eering in Medicine and Bi							
14.	SMI002	metallu	urgical proc	ulation of thermo chemica esses		(PM0)Pro	oduction Engineering, Master Academic Studies				
15.	DP001	Desigr Engine	n and Rese	arch Methods in Productio	n	(M00) Mechanical Engineering, Doctoral Academic Studies					
16.	DP004	Advan	ced Techno	ologies in Casting and Hea	at Treatment	(M00) Mechanical Engineering, Doctoral Academic Studies					
17.	DP007	Proced	dures of Pla	asma Depozition		(M00) Mechanical Engineering, Doctoral Academic Studies					
18.	DP011	Nanote	echnologies	s and Nanomaterials Form	ing	(M00) Mechanical Engineering, Doctoral Academic Studies					
19.	DP014	Nano a	and Micro L	ayers Characterization		(M00) Mechanical Engineering, Doctoral Academic Studies					
20.	ZRD213			development tendencies ork environment	of quality	(Z01) Safety at Work, Doctoral Academic Studies					
Rep	oresentative	reffere	nces (minin	num 5, not more than 10)							
1.	Škorić B., Kakaš D., Influence of type of plasma coatings on friction coeficient and contact temperature on wear of tool steel, Oxidation Communications, vol.17, Bulgarian-English Academic Publishing House ,1994, 214-219										
2.	Škorić B.	Škorić B., Kakaš D., Tribologycal behaviour of TiN and TiAlN deposited layers on substrates plasma nitrided at low pressure, Materials and Manufacturing Processes, Vol 10, 1 ,New York, USA,1995, 133-138									
3.	3. Škorić B., KakaŠ D., Sovilj B., Microstructural and tribological study of magnetron sputtered coating, Journal of the Balkan Tribological Association, Vol.3, No.3, 1997,142-147.										

a	TAS STU		UNIVERSITY OF NO	VI SAD		WKWX			
ALL DE		FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6							
N J		Study F	Programme A	ccreditatio	on	ELF S			
(O)	LANTENS	MASTER ACADEMIC STUDIES	-		Production Engineering				
Rep	presentative r	efferences (minimum 5, not more th	an 10)						
4.		Kakaš D., Influence of plasma Nitridi eatments., Thin Solid Films, Elsevie				uent PVD			
5.	,	Kakaš D., Examination of tribologica & Interfaces, Elsevier Science, Oxfo		,		Computer			
6.		Škorić B., Rakita M., Tribological bel xford, England, Volume 459, Issues			n implantataion, Thin Solid	Films, Elsevier			
7.		Kakaš D., Rakita M., Bibić N., Peruš rided steels, Vacuun, Pergamon, El				by PVD and			
8.	,	Kakaš D., Bibić N., Rakita M., Micros ience B V , North-Holland, Volumes		0 1 1	bared by PVD and IBAD, Su	urface Science,			
9.	Škorić B., k	Kakaš D., Karakterizacija mikro i nar	no slojeva, monografija	a, FTN, Novi Sad,	2007				
10.	0. Škorić B.: Tribological characterizationof duplex coatings with additional ion bombardment, Brussels, European science foundation, 2008, str. 289-299, ISBN 978-92-898-0040-2								
Sur	mmary data fo	or teacher's scientific or art and profe	essional activity:						
	tation total :		38						
Tota	I of SCI(SSCI)) list papers :	16						
Curre	ent projects :		Domestic :	1	International :	1			



Study Programme Accreditation

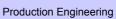
Production Engineering

Nam	e and last n	ame:			Tabaković N.	Slobodan			
	emic title:				Assistant Professor				
Nam	e of the inst	titution v	where the te	eacher works full time and	Faculty of Technical Sciences - Novi Sad				
	ng date:				10.10.2000				
Scier	ntific or art f	ield:			Machine Tool	s, Flexible 7	Fechnological Systems and Automatization		
Acad	emic cariee	er	Year	Institution			Field		
Acad	emic title el	lection:	2008	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
PhD	thesis		2008	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Magi	ster thesis		2002	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
Bach	elor's thesis	S	1998	Faculty of Technical Sci	ences - Novi S	ad	Machine Tools, Flexible Technological Systems and Automatization Processes Design		
List c	of courses b	eina he	ld by the te	acher in the accredited stu	udv programme	es	,		
	ID	Course name				Study pro	ogramme name, study type		
1.	P1402	CAD/C	CAE/CAM i	CIM Systems		(P00) Pro Studies	duction Engineering, Undergraduate Academic		
2.	P1407	Machir	ne Tools De	esigning		(P00) Pro Studies	duction Engineering, Undergraduate Academic		
						(P00)Pro Studies	duction Engineering, Undergraduate Academic		
3.	P1410	Virtual	Product De	esigning		(SE0) Software Engineering and Information Technologies, Undergraduate Academic Studies			
							(SEL) Software Engineering and Information Technologies - Loznica, Undergraduate Academic Studies		
4.	P301	Automation in Production Engineering				(P00) Pro Studies	(P00) Production Engineering, Undergraduate Academic Studies		
5.	P307	Automated Flexible Technologial Systems				(P00) Production Engineering, Undergraduate Academic Studies			
6.	ZR408A	Safety	at work on	the machines for process	ing	(Z01) Safety at Work, Undergraduate Academic Studies			
7.	P1405			proach to Product Design	0	(PM0) Production Engineering, Master Academic Studies			
8.	PR408	Funda Machir		Protection for Operation of	on Processing	(PM0)Pro	oduction Engineering, Master Academic Studies		
9.	IM2118	Funda	mentals of	CAD / CAM technology		(I20) Engir	neering Management, Master Academic Studies		
10.	P307A	Flexibl	le technolog	gical systems		(E20) Con Academic	nputing and Control Engineering, Master Studies		
11.	PAUP1	Autom	atization in	plastic		(PM0) Production Engineering, Master Academic Studies			
12.	PP102	Precis	ion of mach	nine tools		(PM0) Pro	oduction Engineering, Master Academic Studies		
13.	PP110	The dy	/namics of I	micro machining systems		(PM0) Pro	duction Engineering, Master Academic Studies		
14.	PP2I12	Desigr	n of prosthe	tic devices		(BM0) Bio	medical Engineering, Master Academic Studies		
4-	0140	Math	ala ana tao 10		ala al ala cirur	· /	duction Engineering, Master Academic Studies		
15.	SM2			ware tools for computer ai	0	· ,	oduction Engineering, Master Academic Studies		
16.	ZRMI1A	•		se and human vibration in	industry	(201) Safe	ety at Work, Master Academic Studies		
Rep	presentative	e reffere	nces (minin	num 5, not more than 10)					
1.				eljković, M., Toma, J.: A co vorkpiece model, Machine			gn of modular Machine Tools with parallel 2, 2002, pp. 171 - 182		
2.		endopro					ems in the design process of modular, revision IE, 2011, Vol. 9, No 2/2011, pp. 97-102, ISSN		
3.				baković S.: Matematical N – AJME, 2010, Vol. 8, No			g Life Determination, Academic Journal of I 1583-7904		
4.	Blanuša	V., Zeljk	ović M., Vil		e specificity of p		es programming, Journal for Technology of		
5.	Tabakovi	ć S., Ze kih man	ljković M., I	Vlađenović C., Gatalo R.:	Uređaj za mar		dnim predmetima ili alatima kod mašina alatki i lektualne svojine, 2012, UDK: Broj patenta		

cs	TAS STUR		UNIVERSITY OF NO	VI SAD		WKHX 4	
AN	NOR COLOR	FACULTY OF TECHNICAL SCIENCES 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 6					
D'IL		Study F	Con Participation				
.01	LANTEN	MASTER ACADEMIC STUDIES			Production Engineering	HO.	
Rep	presentative r	efferences (minimum 5, not more th	an 10)				
6.		Ć, S., ZELJKOVIĆ, M., GATALO, R n, Journal of Machine Engineering, 2				parallel	
7.	Tabaković S., Zeljković M., Živković A., Movrin D., Grujić J.: Development of the endoprosthesis of the femur according to the characteristics of a specific patient with using modern methods for product design and rapid prototyping, Journal for Technology of Plasticity, 2012, Vol. 37, No 2, pp. 195-208, ISSN 0354-3870						
8.		S., Gatalo, R., Konjović, Z.: Object- ople and the Multidisciplinary Resea					
9.	Tabaković, S., Gatalo, R., Zeljković, M.: Analiza tačnosti aproksimacije profila pri generisanju upravljačkih programa za CNC						
10.	Tabaković, S.; Gatalo, R.; Zeljković, M.: Designing machine tools based on parallel kinematics using contemporary engineering and mathematical methods the 15th international DAAAM symposium, "Intelligent Manufacturing & Automation: Globalization – Technology – Men - Nature" 3 – 6th November 2004, Vienna, Austria, pp. 453-454, ISSN 1726-9679, ISBN 3-901509-42-9						
Sur	mmary data fo	or teacher's scientific or art and profe	essional activity:				
	tation total :		0				
	l of SCI(SSCI)) list papers :	0		r		
Curre	ent projects :		Domestic :	1	International :	0	



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Nam	e and last n	ame:			Todić V. Velir	mir			
Acad	lemic title:				Full Professor				
		titution v	vhere the te	acher works full time and	Faculty of Te	chnical Scie	nces - Novi Sad		
	ng date:				01.01.1971				
	ntific or art f				Tecnological	Process De	sign and Optimization and Technical Preparation		
Acad	lemic cariee	er	Year	Institution			Field		
Acad	lemic title el	lection:	1998	Faculty of Technical Sci	ences - Novi S	ad	Tecnological Process Design and Optimization and Technical Preparation for Manufacturing		
PhD	thesis		1987	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design		
Magi	ster thesis		1978	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design		
Bach	elor's thesis	S	1970	Faculty of Technical Sci	ences - Novi S	ad	Technological Processes, Techno-Economic Optimization and Virtual Design		
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.	P1403	Integra	ated CAPP	Systems and Technologic	al Database	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
2.	P1503	Techn	ological Lo	gistics and Entrepreneursh	nip	(P00) Proo Studies	duction Engineering, Undergraduate Academic		
3.	P308	Proces	ss Planning			(P00) Proo Studies	duction Engineering, Undergraduate Academic		
4.	P4408	Entrepreneurship in Small and Medium Ent			erprises	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
5.	P320	Technological Preparation of Production in Engineering			Precision	(P00)Proo Studies	duction Engineering, Undergraduate Academic		
6.	P1506	Internet Technologies in Production Engine			ering	(PM0)Pro	0) Production Engineering, Master Academic Studies		
7.	P315	Intelligent Process Planning				(PM0)Pro	duction Engineering, Master Academic Studies		
8.	PLIS1	Logistics and Simulation in Technologies of Processing			Plastics	(PM0)Pro	oduction Engineering, Master Academic Studies		
9.	SM1	Metho	ds and Soft	ware Tools for Collaborati	ive Design	(PM0) Pro	duction Engineering, Master Academic Studies		
10.	DP001	Desigr Engine		arch Methods in Productic	n	(M00) Me	chanical Engineering, Doctoral Academic Studies		
11.	DP017			s in e-Manufacturing		(M00) Mechanical Engineering, Doctoral Academic Studies			
12.	DP018	Moder		in Development Technol	ogical		chanical Engineering, Doctoral Academic Studies		
13.	ZRD232			ecurity Services and Healt	h at Work	(Z01) Safe	ety at Work, Doctoral Academic Studies		
Rep	oresentative	e reffere	nces (minin	num 5, not more than 10)					
1.	Todić, V.	: Projekt	tovanje tehi	noloških procesa, udžbeni	k, FTN Izdava	štvo, Novi Sa	ad, 2004.		
2.	Todić, V.	, Stanić,	J.: Osnove	optimizacije tehnoloških	procesa izrade	i konstrukci	ije proizvoda, udžbenik, FTN, Novi Sad, 2002.		
3.	Todić, V.	, Banjac	, D.: Projek	tovanje i optimizacija tehr	noloških proces	a obrade, p	riručnik, FTN, Novi Sad, 2000.		
4.									
5.	Todić V., Tepić J., Milošević M., Lukić D., Hadžistević M.: Design of Casting Blanks in CAPP System for Parts of Piston-Cylinder								
6.	Todić V. Tenić I. Kostelac M. Lukić D. Milošević M. Design and economic justification of group blanks application. Metalurgija								
7.				: J., Milošević M., Lukić D. alurgija, 2012, Vol. 51, No			d for evaluation and selection of flexible		
8.				vić M., Milošević M.: Integ I, pp. 381-389, ISSN 0025		stem for Pla	astic Injection Molds Manufacturing, Materiale		
9.	polymer i	njection		nufacturing, Metalurgija, 20			outer-aided process planning (CAPP) system for -277, ISSN 0543-5846, UDK:		
10.				/ I., Lukić D., Stojić G., Sre 346, UDK: 621.824:621.88			Design for Plastic Euro Pallets, Metalurgija, 2012,		
Sur	nmary data	for tead	her's scien	tific or art and professiona	I activity:				

STAS STUD		UNIVERSITY OF NO	VI SAD		WAKNY	
NA COR	FACULTY OF TECHNICAL SCI	ENCES 21000 NOVI	SAD, TRG DOSI	TEJA OBRADOVIĆA 6	STATE -	
120000	Study F	on	Cal			
PLANTER	MASTER ACADEMIC STUDIES			Production Engineering	HO	
Quotation total :		8				
Total of SCI(SSCI) list papers :	6	-			
Current projects :		Domestic :	1	International :	0	



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

Study Programme Accreditation



Production Engineering

Name and last name:					Vilotić Ž. Dra	qiša		
	emic title:				Full Professor			
Nam	e of the inst	titution v	vhere the t	eacher works full time and	Faculty of Technical Sciences - Novi Sad			
starting date:					01.01.1975			
Scier	ntific or art f	ield:	_		Plastic Deform	mation Tech	nology, Rapid Prototyping, Virtual	
Acad	emic caries	er	Year	Institution			Field	
Acad	emic title e	lection:	1998	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual	
PhD	thesis		1986	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual	
Magi	ster thesis		1981	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual	
Bach	elor's thesis	s	1974	Faculty of Technical Sci	ences - Novi S	ad	Plastic Deformation Technology, Rapid Prototyping, Virtual	
List c	of courses b	eing he	ld by the te	eacher in the accredited stu	udy programme	es		
	ID	Course	e name			Study pro	ogramme name, study type	
1.	P207	Metal	forming			(P00) Pro Studies	duction Engineering, Undergraduate Academic	
2.	P2401	Advan	ced Metho	ds in Metal Forming		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
3.	P2413	Compu Formir		Design of Tools and Dies f	for Metal	(P00) Production Engineering, Undergraduate Academic Studies		
4.	P303	Machir	nes for Pro	cessing by Deforming		(P00) Production Engineering, Undergraduate Academic Studies		
5.	P3403	Technology of Plastic Forming - Shaping of material			plastic	(P00) Production Engineering, Undergraduate Academic Studies		
6.	P3503	Machir	nes and De	evices for Plastic Processir	ng	(P00) Pro Studies	duction Engineering, Undergraduate Academic	
7.	M2062	Mecha	inical engir	neering technologies 2		Undergrad	chanization and Construction Engineering, luate Academic Studies	
						Undergrad	chnical Mechanics and Technical Design, luate Academic Studies	
8.	M3203	Techn	ology of m	achinery		Academic		
9.	P3402	,		ase States of Polymers		Studies	duction Engineering, Undergraduate Academic	
10.	ZR408A	,		n the machines for process	ing	<u>, ,</u>	ety at Work, Undergraduate Academic Studies	
11.	P2407	Rapid	Prototypin	g and Rapid Tooling		(PM0) Production Engineering, Master Academic Studies		
12.	P3501		esigning fo			· /	oduction Engineering, Master Academic Studies	
13.	P3503A	Conter	mporary Pi	rocess Systems for Plastic	Treatment	<u>, , , , , , , , , , , , , , , , , , , </u>	oduction Engineering, Master Academic Studies	
14.	BMIM4B	Technologies of shaping biomedical materi			als	l , ,	medical Engineering, Master Academic Studies oduction Engineering, Master Academic Studies	
15.	PMISP1	Model	ing and Si	mulation of Metal Forming	Processes	(PM0)Pro	oduction Engineering, Master Academic Studies	
16.	PTS01		ology of si			(PM0)Pro	oduction Engineering, Master Academic Studies	
17.	DP001	Engine	ering	earch Methods in Productio		(M00) Me	chanical Engineering, Doctoral Academic Studies	
18.	DP005	Quality	/ and Equi		etrology,	· ,	chanical Engineering, Doctoral Academic Studies	
19.	DP008			ethods and TPD Systems		<u> </u>	chanical Engineering, Doctoral Academic Studies	
20.	DP012			ng and TPD Simulation by		(M00) Me	chanical Engineering, Doctoral Academic Studies	
21.	DP015	Nonco	nventional	Procedures of Forming in	TPD	(M00) Me	chanical Engineering, Doctoral Academic Studies	

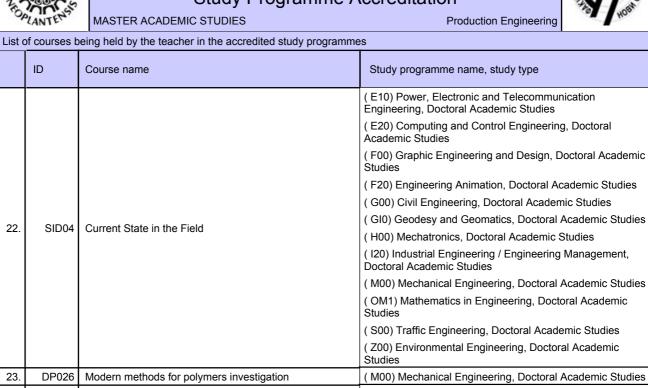


ID

22.

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

Study Programme Accreditation



				(Z00) Environmental Engineering, Doctoral Academic Studies
	23.	DP026	26 Modern methods for polymers investigation	(M00) Mechanical Engineering, Doctoral Academic Studies
24. DP028 Theoretical basis for forming polymer technology (M00) Mechanical Engineering, Doctoral Academic	24.	DP028	28 Theoretical basis for forming polymer technology	(M00) Mechanical Engineering, Doctoral Academic Studies
(A00) Architecture, Doctoral Academic Studies				(A00) Architecture, Doctoral Academic Studies
25. SID04 Present State in the Field (AS0) Scenic Design, Doctoral Academic Studies	25.	SID04	04 Present State in the Field	(AS0) Scenic Design, Doctoral Academic Studies
(Z01) Safety at Work, Doctoral Academic Studies				(Z01) Safety at Work, Doctoral Academic Studies

Representative refferences (minimum 5, not more than 10)

Essa K., Kačmarčik I., Hartley P., Plančak M., Vilotić D.: Upsetting of bi-metallic ring billets, Journal of Materials Processing 1 Technology, 2012, Vol. 212, No 4, pp. 817-824, ISSN 0924-0136 Alexandrov S., Vilotić D., Konjovoć Z., Vilotić M.: An Improved Experimental Method for Detrmining the Workability Diagram, Experimental Mechanics, 2012, Vol. 52, No 11340, ISSN 0014-4851 2 Alexandrov S., Vilotić D.: A study on an effect of geometric singularities on ductile fracture , Engineering Fracture Mechanics, 3 2009, Vol. 76, No 14, pp. 2309-2315, ISSN 0013-7944 Vilotić D., Plančak M., Čupković Đ., Aleksandrov S., Aleksandrov N.: Free Surface Fracture in Three Upsetting Tests, 4 Experimental Mechanics, 2006, Vol. 46, pp. 115-120, ISSN 0014-4851 Plančak M., Hartley P., Esssa K., Vilotić D., Movrin D., Lužanin O.: Deformation analysis during bi-metallic coining operations, 5 Steel Research International, 2012, pp. 1247-1250, ISSN 1611-3683

Vilotić D., Alexandrov S., Plančak M., Vilotić M., Ivanišević A., Kačmarčik I.: Material Formability at Upsetting by Cylindrical and 6 Flat Dies, Steel Research International, 2012, pp. 1175-1178, ISSN 1611-3683 Vilotić D., Alexandrov S., Plančak M., Movrin D., Ivanišević A., Vilotić M.: Material Formability of Upsetting by V-Shape Dies, 7 Steel Research International, 2011, pp. 923-928, ISSN 1611-3683

Lyamina E., Alexandrov S., Vilotić D., Movrin D.: Effect of Shape of Samples on Ductile Fracture Initiation in Upsetting, Steel 8 Research International, 2010, Vol. 9, No 81, pp. 306-3090, ISSN 1611-3683 D. Vilotić, D. Milikić, M. Plančak, M. Milutinović: Obrazovanje inženjera proizvodnog mašinstva iz oblasti oblikovanja plastike na 9 Fakultetu tehničkih nauka u Novom Sadu, 4. kongres inženjera plastičara i gumara K - IPG 2006., zbornik na CDu, ppt 100 slajdova, Vršac, 13-16. juni 2006. Obradović R., Vilotić D.: Prikaz tehnologije i opreme za za ultrazvučno zavarivanje termoplastičnih komponenata, Zbornik radova 10 MMA 2006, strana 27-28, FTN, Novi Sad, juni 2006 Summary data for teacher's scientific or art and professional activity: Quotation total : 17

1

International :

15

Domestic :

Total of SCI(SSCI) list papers :

Current projects

1



A STATE

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

Name and last name: Vuiić V. Gor								
		ame:			Vujić V. Gora			
	emic title:		ula a u - 41 - 1	a a la annua a la a facilitat	F H CT	Associate Professor Faculty of Technical Sciences - Novi Sad		
	e of the inst ng date:	litution v	where the te	acher works full time and	20.02.1999		lices - Novi Sau	
-					Environment	Protection F	naineerina	
	emic cariee		Year	Institution			Field	
	emic title el		2012				Environment Protection Engineering	
	thesis		2007	Faculty of Technical Sci	ences - Novi S	ad	Environment Protection Engineering	
	ster thesis		2003	Faculty of Technical Sci			Environment Protection Engineering	
	elor's thesis	s	1998	Faculty of Technical Sci			Mechanical Engineering	
				acher in the accredited stu			5	
	ID		e name				gramme name, study type	
1.	E0S42	Renev	vable sourc	es and environmental pro	tection		ver Engineering - Renewble Sources of Electrical Indergraduate Professional Studies	
							ety at Work, Undergraduate Academic Studies	
2.	Z204A	Monito	oring of the	Living Environment			an Energy Technologies, Undergraduate	
			0	U			ronmental Engineering, Undergraduate Academic	
3.	Z309A	Solid Waste Management				(Z01) Safe	ety at Work, Undergraduate Academic Studies ronmental Engineering, Undergraduate Academic	
4.	Z401A	Design and Planning in Environmental Prote			ection	(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic	
5.	Z401B	Design and Planning in Environmental Engir			ineering	(ZC0) Clean Energy Technologies, Undergraduate Academic Studies		
6.	Z409A	Hazardous Waste Management and Recyc Technologies			ling	(Z20) Environmental Engineering, Undergraduate Academic Studies		
7.	OAS214	Integralni katastar zagađivača(uneti naziv			a engleskom)	(Z20) Environmental Engineering, Undergraduate Academic Studies		
8.	Z101	Uvod i engles		štite okruženja(uneti naziv	r na	(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic	
9.	Z205			e prirodnih resursa i sister neti naziv na engleskom)	n zaštite	(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic	
10.	Z309A	Upravl	ljanje čvrstii	n otpadom(uneti naziv na	engleskom)	(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic	
11.	Z401A	-	tovanje i pla na englesko	aniranje u zaštiti životne s om)	redine(uneti	(Z20) Envir Studies	ronmental Engineering, Undergraduate Academic	
12.	Z409A	Upravl	ljanje opasr	im otpadom(uneti naziv n	a engleskom)	(Z20) Envii Studies	ronmental Engineering, Undergraduate Academic	
13.	M3202	Identif	ication and	reduction of pollution from	n industry	Academic		
14.	ZC047		to energy t	Ū		Académic		
15.	Z452	Design and maintenance of quality control environmental engineering				Académic		
16.	Z508	Specific Design Conditions in Environment F				, ,	ronmental Engineering, Master Academic Studies	
17.	Z511			ework for Accidental Risk	0	· /	ronmental Engineering, Master Academic Studies	
18.	ZR501				, ,	ety at Work, Master Academic Studies		
19.	Z508			rojektovanja u zaštiti živo v na engleskom)	uie	(Z20) Envii	ronmental Engineering, Master Academic Studies	
20.	GH508			d municipal waste treatma	ant systems	(G00) Civil	Engineering, Master Academic Studies	
21.	MPK012	Solid v	waste mana	gement			enjerstvo tretmana i zaštite voda - TEMPUS(uneti ngledskom), Master Academic Studies	
22.	MPK014	Monito	oring and sy	stem control		(MPK) Inženjerstvo tretmana i zaštite voda - TEMPUS(uneti naziv na engledskom), Master Academic Studies		
23.	PIP16	Plastics and environmental protection				(PM0) Production Engineering, Master Academic Studies		



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering

List c	of courses being held by the teacher in the accredited study programmes								
	ID	Course name		Study programme name, study type					
24.	SZD042	Models of economic evaluation of er	nvironmental projects	(Z00) Environmental Engineering, Specialised Academic Studies					
25.	SZD051	Applications of optimal control theory environment protection	y in living	(Z00) Environmental Engineering, Specialised Academic Studies					
26.	SZDI23	ZDI23 Material Flow Analysis in Urban Systems (Z00) Environmental Engineering, Specialised Academic Studies							
27.	SZSP21	SZSP21 Design and Planning Processes to Minimize Waste and Hazardous Materials (Z00) Environmental Engineering, Specialised Academic Studies							
28.	ZCM06 Security of strategic energy facilities (ZC0) Clean Energy Technologies, Master Academic Studies								
29.	ZD051	Applications of optimal control theory environment protection	y in living	(Z00) Environmental Engineering, Doctoral Academic Studies					
30.	ZDI23	Material Flow Analysis in Urban Sys	tems	(Z00) Environmental Engineering, Doctoral Academic Studies					
31.	ZDO42	Models of Economic Evaluation of P	rojects for	(OM1) Mathematics in Engineering, Doctoral Academic Studies					
01.	20042	Environment Protection		(Z00) Environmental Engineering, Doctoral Academic Studies					
32.	ZSP20	Systemic Regulation of Environment	t	(G00) Civil Engineering, Doctoral Academic Studies					
33.	ZSP21	Design and Planning Processes to M Hazardous Materials	/inimize Waste and	(OM1) Mathematics in Engineering, Doctoral Academic Studies(Z00) Environmental Engineering, Doctoral Academic					
		Tiazaluous Materiais		Studies					
		<i></i>		(Z01) Safety at Work, Doctoral Academic Studies					
Кер		e refferences (minimum 5, not more th	,						
1.	Contamir	nation in central and Eastern Europe,	Prague 2000.	nternational Symposium and Exhibition on Environmental					
2.	Internatio	nal Symposium and Exhibition on Env	vironmental Contamination	ods, Which Are The Most Suitable For City of Novi Sad, Sixth ation in central and Eastern Europe, Prague 2003.					
3.	Serbia&N			specific national environmental condition in n Environmental Contamination in central and Eastern					
4.	and Exhil	pition on Environmental Contamination	n in central and Easte						
5.	YAI, Thai	land, 16-18 december. 2003.		ment in Serbia and Montenegro, PSU-UNS conference, HAT-					
6.	Vujić, G., Vojinović-Miloradov M., Bašić, Đ., Vujić,B., Čabradi, G., Tomašević, B.: Landfill gas modelling and risk assessment in the purpose of the good managing in municipal landfill of Novi Sad, CHISA 2004, 22-26,08.2004.Prague, Czech Republic.								
7.	Ubavin, D., Vujić, G., Bašić, Đ.:Landfill gas extraction and collection systems; PSU-UNS International Conference On Engineering And Environment - ICEE-2005, Novi Sad 19-21 May, 2005.								
8.	Ubavin, D., Vujić, G., Mihajlov, A., Bašić, Đ.: Gas to energy opportunity on landfill in city of Novi Sad – Serbia and Montenegro D. Faculty of Technical Sciences, Novi Sad, Serbia and Montenegro, World Congress and Exhibition "ISWA 2005", November 610. 2005. Buenos Aires, Argentina Ref No 194, Proceedings p.82								
9.	Marjanović, D., Vujić, G., Mihajlović, V., Ubavin, D.: Selection of Technology and Public Opinion as Key Factors in Regional Landfill Location Selection, PSU-UNS International Conference on Engineering and Environment - ICEE-2007, Phuket May10-11, 2007. Proceedings CD ICCEE2007149								
10.		Mihajlović, V., Ubavin, D.: Possibilitie eering and Environment - ICEE-2007,		ge at Novi Sad Landfill, PSU-UNS International Conference 07. Proceedings CD ICEE2007150					
Sur	nmary data	for teacher's scientific or art and profe	essional activity:						
Quot	ation total :		0						
Total	of SCI(SS	CI) list papers :	0						
Curre	ent projects	•	Domestic :	1 International : 1					



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

Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Name and last name:					Vukelić B. Đo	rđe		
Academic title:					Assistant Professor			
		itution v	vhere the te	acher works full time and	Faculty of Technical Sciences - Novi Sad			
-	ng date:				23.10.2000			
Scientific or art field:					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 Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
PhD	thesis		2010	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Magi	ster thesis		2005	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
Bach	elor's thesis	5	2000	Faculty of Technical Sci	ences - Novi S	ad	Metrology, Quality, Fixtures and Ecological- Engineering Aspects	
List c	of courses b	eing he	ld by the te	acher in the accredited stu	idy programme	es	•	
	ID	Course	e name			Study pro	ogramme name, study type	
1.	P1401	Fixture	e Design an	d Measuring Machines		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
						(P00) Pro Studies	duction Engineering, Undergraduate Academic	
2.	P1508	Reverse Engineering and CAQ					tware Engineering and Information Technologies, luate Academic Studies	
							tware Engineering and Information Technologies - Indergraduate Academic Studies	
3.	P209	Measurements and Quality					chnical Mechanics and Technical Design, luate Academic Studies	
5.	F209	MEasu	irements ar	la Quality		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
4.	P306	Fixture	es			(P00) Production Engineering, Undergraduate Academic Studies		
5.	Z207	Mecha	inical Engin	eering in Environmental E	ingineering	(Z20) Environmental Engineering, Undergraduate Academic Studies		
6.	Z207A	Mecha	inical Engin	eering in Environmental E	ingineering	(Z01) Safe	ety at Work, Undergraduate Academic Studies	
7.	Z301	Polluti	on Measure	ement and Control			ety at Work, Undergraduate Academic Studies ronmental Engineering, Undergraduate Academic	
8.	ZRI441	Materi	-	systems for environmenta	I and labor		ety at Work, Undergraduate Academic Studies	
9.	ll1037			recycling technologies		(I10) Indus Studies	strial Engineering, Undergraduate Academic	
10.	P322	Introdu	uction to Pre	ecision Engineering		(P00) Pro Studies	duction Engineering, Undergraduate Academic	
11.	ZC036	Measurement and control of pollution				(ZC0) Cle Academic	an Energy Technologies, Undergraduate Studies	
12.	P1409	Materi	al Control S	systems and CAI		(PM0)Pro	duction Engineering, Master Academic Studies	
13.	P1501	Ecological Technologies and Systems				Académic		
						oduction Engineering, Master Academic Studies		
14.	Z416A	Environment Protection System Manageme			nt	, ,	oduction Engineering, Master Academic Studies	
15.	1907	Automated Assembly Systems for High Acc			uracy		chatronics, Master Academic Studies oduction Engineering, Master Academic Studies	
16.	P321	Revers	se Enginee	ring and Rapid Prototyping	9	(110) Indu	strial Engineering, Master Academic Studies	
17.	PIP16	Plastic	s and envir	onmental protection		(PM0) Pro	oduction Engineering, Master Academic Studies	
18.	PLIS1	Logisti Proces		ulation in Technologies of	Plastics		oduction Engineering, Master Academic Studies	
19.	PP103	Measu	rement and	tools in precision engine	ering	(PM0)Pro	duction Engineering, Master Academic Studies	
20.	SM3	Softwa	are support	for reverse engineering ar	nd CAQ	(PM0) Pro	duction Engineering, Master Academic Studies	



ID

21

22

23

24

25.

26

27

28.

4 Р

7

SMI003

SZDH1

DM411

DP001

DP006

DP013

DP019

ZDH1

Study Pro

Modern Methods of Eco-design

List of courses being held by the teacher in the accredited

			WYKNA HA		
0	FACULTY OF TECHNICAL SCIENCES 21000 NOVI	STATE .			
Ā	Study Programme A	Con			
	MASTER ACADEMIC STUDIES	Production Engineering	HO		
bei	ng held by the teacher in the accredited study programme	25			
0	Course name	Study programme name, study type			
3	Software support for cutting tools and fixtures modeling	(PM0) Production Engineering, Master Ac	ademic Studies		
r	Nodern Methods of Eco-design	(Z00) Environmental Engineering, Specialised Academic Studies			
E	Contemporary Approach to Integration of Reverse Engineering of Rapid Prototyping, Tools, Products and /irtual Manufacturing	(M00) Mechanical Engineering, Doctoral A	Academic Studies		
	Design and Research Methods in Production	(M00) Mechanical Engineering, Doctoral A	Academic Studies		
	State and development trends of metrology, quality and ixtures	(M00) Mechanical Engineering, Doctoral A	Academic Studies		
E	Ecological Engineering Aspects	(M00) Mechanical Engineering, Doctoral A	Academic Studies		
3	Selected topics in technical diagnosis	(M00) Mechanical Engineering, Doctoral A	Academic Studies		

(Z00) Environmental Engineering, Doctoral Academic

VUV

Representative refferences (minimum 5, not more than 10)

Budak I., Vukelić D., Bračun D., Hodolič J., Soković M.: Pre-Processing of Point-Data from Contact and Optical 3D Digitization 1 Sensors, Sensors, 2012, Vol. 12, No 1, pp. 1100-1126, ISSN 1424-8220.

Studies

2.	Tadić B., Jeremić B., Todorović P., Vukelić Đ., Proso U., Mandić V., Budak I.: Efficient workpiece clamping by indenting cone- shaped elements, International Journal of Precision Engineering and Manufacturing, 2012, Vol. 13, No 10, pp. 1725-1735, ISSN 2234-7593.

Tadić B., Todorović P., Vukelić Đ., Jeremić B.: Failure analysis and effects of redesign of a polypropylene yarn twisting machine, 3 Engineering Failure Analysis, 2011, Vol. 18, No 5, pp. 1308-1321, ISSN 1350-6307.

Matin I., Hadžistević M., Hodolič J., Vukelić Đ., Lukić D.: A CAD/CAE Integrated Injection Mold Design System for Plastic
Products, International Journal of Advanced Manufacturing Technology, 2012, Vol. 63, No. 5-8, pp. 595-607, ISSN 0268-3768.

Tadić B., Todorović P., Lužanin O., Miljanić D., Jeremić B., Bogdanović B., Vukelić Đ.: Using specially designed high-stiffness 5 burnishing tool to achieve high-quality surface finish, DOI: 10.1007/s00170-012-4508-2, International Journal of Advanced Manufacturing Technology, 2012, ISSN 0268-3768.

Mrkajić V., Stamenković M., Maleš M., Vukelić Đ., Hodolič J.: Proposal for reducing problems of the air pollution and noise in the 6 urban environment, Carpathian Journal of Earth and Environmental Sciences, 2010, Vol. 5, No 1, pp. 49-56, ISSN 1842-4090.

Vukelić Đ., Zuperl U., Hodolič J.: Complex system for fixture selection, modification, and design, International Journal of Advanced Manufacturing Technology, 2009, Vol. 45, No 7-8, pp. 731-748, ISSN 0268-3768.

Vukelić Đ., Ostojić G., Stankovski S., Lazarević M., Tadić B., Hodolič J., Simeunović N.: Machining fixture assembly/disassembly 8 in RFID environment, Assembly Automation, 2011, Vol. 31, No 1, pp. 62-68, ISSN 0144-5154.

Trifković B., Budak I., Todorović A., Hodolič J., Puškar T., Jevremović D., Vukelić Đ.: Application of Replica Technique and SEM 9 in Accuracy Measurement of Ceramic Crowns, Measurement Science Review, 2012, Vol. 12, No 3, pp. 90-97, ISSN 1335-8871. Tadić B., Vukelić D., Hodolič J., Mitrović S., Erić M.: Conservative-Force-Controlled Feed Drive System for Down Milling,

10 Strojniški vestnik - Journal of Mechanical Engineering, 2011, Vol. 57, No 5, pp. 425-439, ISSN 0039-2480.

Summary data for teacher's scientific or art and professional activity:							
Quotation total :	34						
Total of SCI(SSCI) list papers :	21						
Current projects :	Domestic :	3	International :	3			



Study Programme Accreditation



Production Engineering

Name and last name:					Zeljković V. Milan			
Academic title:			Full Professor					
Name of the institution where the teacher works full time and			Faculty of Technical Sciences - Novi Sad					
starting date:			15.11.1977					
Scier	Scientific or art field:					s, Flexible 1	Technological Systems and Automatization	
Academic carieer Year Institution							Field	
Academic title election: 2007 Faculty of Technical Scie			ences - Novi Sad		Machine Tools, Flexible Technological System and Automatization Processes Design			
PhD thesis 1996 Faculty of Te		Faculty of Technical Sci	of Technical Sciences - Novi Sad		Machine Tools, Flexible Technological Systen and Automatization Processes Design			
Magister thesis 1984 Faculty of		Faculty of Technical Sci	ty of Technical Sciences - Novi Sad		Machine Tools, Flexible Technological System and Automatization Processes Design			
Bachelor's thesis 1977 Faculty of Technical Sc		iences - Novi Sad		Technological Processes, Techno-Economic Optimization and Virtual Design				
List o	f courses b	eing he	ld by the te	acher in the accredited stu	udy programme	es		
	ID					Study programme name, study type		
1.	P1402	CAD/CAE/CAM i CIM Systems				(P00) Production Engineering, Undergraduate Academic Studies		
2.	P1407	Machir	Machine Tools Designing			(P00) Pro Studies	duction Engineering, Undergraduate Academic	
				Studies	duction Engineering, Undergraduate Academic			
3. P1410 V		Virtual	Virtual Product Designing			(SE0) Software Engineering and Information Technologies Undergraduate Academic Studies		
						(SEL) Software Engineering and Information Technologies Loznica, Undergraduate Academic Studies		
4.	P301	Automation in Production Engineering				(P00) Production Engineering, Undergraduate Academic Studies		
5.	P304	Processing and Technological Systems				(P00) Production Engineering, Undergraduate Academic Studies		
6.	P307					(P00) Production Engineering, Undergraduate Academic Studies		
7.	ZR308A	, , , , , , , , , , , , , , , , , , , ,				(Z01) Safety at Work, Undergraduate Academic Studies		
8.	ZR408A	Safety at work on the machines for processing			•	(Z01) Safety at Work, Undergraduate Academic Studies		
9.	P1405				0	(PM0) Production Engineering, Master Academic Studies		
10.	PR408			Protection for Operation of	on Processing	(PM0) Production Engineering, Master Academic Studies		
11.	IM2118	Machines Fundamentals of CAD / CAM technology				(I20) Engineering Management, Master Academic Studies		
12.	P307A	Flexible technological systems					nputing and Control Engineering, Master	
13.	PP102	Precis	ion of mach	nine tools			duction Engineering, Master Academic Studies	
14.	PP110	Precision of machine tools The dynamics of micro machining systems				. ,	0	
15.	PP2I12					(PM0) Production Engineering, Master Academic Studies (BM0) Biomedical Engineering, Master Academic Studies		
16.	DP001	•		arch Methods in Productio	n	· ,	oduction Engineering, Master Academic Studies chanical Engineering, Doctoral Academic Studies	
17.	DP003	Engineering State and Developing Trend in the Field of Machine Tools, FTS, and Automation of Designing Processes				(M00) Mechanical Engineering, Doctoral Academic Studies		
18.	DP010	Behav Workir	ehaviour Modelling and Experimental Testing of /orking Systems			chanical Engineering, Doctoral Academic Studies		
19.	ZRD18A	vvorking Systems			-	(Z01) Safety at Work, Doctoral Academic Studies		
20.	ZRD235	and he	ealth	on in the field of occupatio		(Z01) Safety at Work, Doctoral Academic Studies		
21.	work in the area mechanical engineering							
Representative refferences (minimum 5, not more than 10)								
1.				perimental and Computer / 1999, Vol. 48, No 1, pp. 3			eed Spindle Assembly behaviour, CIRP Annals -	



Study Programme Accreditation



MASTER ACADEMIC STUDIES

Production Engineering

Re	presentative refferences (minimum 5, not more th	an 10)						
2.	Gatalo R., Hodolič J., Zeljković M., Milošević V., Konjović Z.: Achievements in the development and future development of SAPOR-S systems for automatic programming of NC Lathes , Robotics and Computer-integrated Manufacturing, 1988, Vol. 4, No 1/2, pp. 91-102, ISSN 0736-5845							
3.	Gatalo R., Rekecki J., Hodolič J., Borojev Lj., Zeljković M., Milošević V., Konjović Z., Malbaški D.: Automatic design of the technological process for NC lathes by the use of SAPOR-S system, International Journal of Production Research, 1983, Vol. 21, No 2, pp. 197-213, ISSN 0020-7543							
4.	Todić V., Zeljković M., Tepić J., Milošević M., Lukić D.: Techno-economic method for evaluation and selection of flexible manufacturing systems, Metalurgija, 2012, Vol. 51, No 3, ISSN 0543-5846							
5.	Antić A., Petrović P., Zeljković M., Kosec B., Hodolič J.: The influence of tool wear on the chip-forming mechanism and tool vibrations, Materijali in tehnologije, 2012, Vol. 46, No 3, pp. 279-285, ISSN 1580-2949							
6.	Milojević Z., Vićević M., Zeljković M., Navalušić S.: Methodology of the bone tissue diagnostic images processing, Academic Journal of Manufacturing Engineering – AJME, 2012, Vol. 10, No 3, pp. 63-70, ISSN 1583-7904							
7.	Milojević Z., Navalušić S., Zeljković M., Vićević M., Beju L.: Haptic interaction program systems development as a part of virtual environment, Academic Journal of Manufacturing Engineering – AJME, 2011, Vol. 9, No 2/2011, pp. 61-66, ISSN 1583-7904							
8.	Tabaković S., Živković A., Grujić J., Zeljković M.: Using CAD/CAE software systems in the design process of modular, revision total hip endoprosthesis, Academic Journal of Manufacturing Engineering – AJME, 2011, Vol. 9, No 2/2011, pp. 97-102, ISSN 1583-7904							
9.	Živković A., Zeljković M., Tabaković S.: Matematical Model for the Roller Bearing Life Determination, Academic Journal of Manufacturing Engineering – AJME, 2010, Vol. 8, No 3/2010, pp. 108-115, ISSN 1583-7904							
10.	Čiča Đ., Zeljković M., Lakić-Globočki G., Sredanović B., Borojević S.: Identification of contact parameters of spindle-holder-tool assembly using artification neural networks, 11. International Scientific Conference "Advanced Production Technologies" - MMA, Novi Sad: Fakultet tehničkih nauka, 20-21 Septembar, 2012, pp. 57-60, ISBN 978-86-7892-419-4							
Su	mmary data for teacher's scientific or art and profe	essional activity:						
	tation total :	22						
	l of SCI(SSCI) list papers :	6	1	1				
Curr	ent projects :	Domestic :	1	International :	0			



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

Study Programme Accreditation

MASTER ACADEMIC STUDIES

Production Engineering



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 minimum of spaced per student is met.

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.



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

Study Programme Accreditation

Production Engineering

Standard 11. Quality Control

MASTER ACADEMIC STUDIES

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.