

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Faculty	Faculty of Med	chanical Engineerin	g
GENERAL INFORMATION					
Study Program	Mechanical Engineering				
Study Module (if applicable)	-				
Course Title	Modeling and process optimization				
Level of Study	□Bachelor	☐ Mas	ter's	r's ⊠ Doctoral	
Type of Course	☐ Obligator	y ⊠ Elec	tive		
Semester	⊠ Autumn	☐ Spri	ng		
Year of Study	II				
Number of ECTS Allocated	10				
Name of Lecturer/Lecturers	Miroslav R. Radovanović				
	⊠ Lectures	☐ Grou	p tutorials	☐ Individual tutor	rials
Teaching Mode	☐ Laborato	ry work 🛛 🖂 Proje	ct work	☐ Seminar	
	☐ Distance I	earning 🗆 Blend	ded learning	\square Other	
Purpose and Overview (max. 5 ser	ntences)				
Introduce students to the modelin aspects of modeling and process of		optimization. The co	ourse is targeti	ng both the theore	tical and practical
Syllabus (brief outline and summa	ry of topics, r	max. 10 sentences)			
n) Methods and classification of properformances and factors. Selection Mathematical models of the first or mathematical model. 3) Strategy of constraints of process optimization Optimization of machining process.	n of a mathen der. Mathem process optil , 4) Methods	natical model. Analyt atical models of a hig mization. Mathemati for process optimiza	ical modeling p her order. Ana cal modeling o	orocess. Stochastic alysis of adequacy a f process optimizat	modeling process. and reliability of the tion. Goal, criteria and
Language of Instruction		·			
⊠Serbian (complete course) ⊠		⊠ English (complete course)		her	(complete course)
☐ Serbian with English mentoring	☐ Serbian with other mentoring				
Assessment Methods and Criteria					
Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures		Written Examination	on 100		

Practical Teaching		Oral Examination				
Teaching Colloquia		Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						