

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty of Med	aculty of Mechanical Engineering	
GENERAL INFORMATION					
Study Program	Mechanical Engineering				
Study Module (if applicable)	-				
Course Title	Optimization in mechanical design				
Level of Study	☐ Bachelor	☐ Mas	ter's	⊠ Doctoral	
Type of Course	☐ Obligator	y 🗵 Elect	tive		
Semester	☐ Autumn	⊠ Sprir	ng		
Year of Study	1				
Number of ECTS Allocated	10				
Name of Lecturer/Lecturers	Anđelković R. Boban, Jelena D. Stefanović-Marinović				
	☐ Lectures	☐ Grou	p tutorials		
Teaching Mode	☐ Laborato	ry work 🛮 🖾 Proje	ct work	☐ Seminar	
	☐ Distance	learning \square Blend	ded learning	☐ Other	
Purpose and Overview (max. 5 ser	ntences)				
Introducing the basic concepts of possibilities of mathematical optimi		•	•	optimal solution application, as well as	
Syllabus (brief outline and summa	ry of topics, 1	max. 10 sentences)			
classification of mathematical me optimization methods. Practical ap to specific optimization problems	thods accord oplication of o of mechanica of optimiz	ling to various criter optimization methods al systems. Application ation. Methods for	ia. General ch and techniqu on of MatLab p solving proble	ods for mathematical optimization. The aracteristics and application of specific es using software packages. Application packages for optimization. Multi-criteria ems of multi-criteria optimization. The and methods for optimization.	
Language of Instruction					
⊠Serbian (complete course) □ English (complete course) □ Other(complete course)					
☐ Serbian with English mentoring	□Serbi	an with other mentor	ing		
Assessment Methods and Criteria	l				
Pre exam Duties	Points	Final Exam	Points		
Activity During Lectures	o	Written Examinatio	n o		
Practical Teaching	o	Oral Examination	50		
Teaching Colloquia	50	Overall Sum	100		

*Final examination mark is formed in accordance with the Institutional documents						
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