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UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty of Mechanical Engineering				
GENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Technical materials						
Level of Study	⊠Bachelor	□ Mas	ster's	☐ Doctoral			
Type of Course	x Obligatory	Ele	ctive				
Semester	Autumn	x Sprin	g				
Year of Study	I						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Assoc. Prof. Goran Radenković and Assoc. Prof Gordana Stefanovic						
	□ Lectures	☐ Grou	p tutorials	☐ Individual tutorials			
Teaching Mode	□ Laborator	y work Proje	ect work	⊠ Seminar			
	☐ Distance	learning Blen	ded learning	☐ Other			
Purpose and Overview (max. 5 set	ntences)						
systematization and terminology in	practice. ypes of materi	als used in mechanica		water as well as for managing in the heir structure, properties, application and			

Syllabus (brief outline and summary of topics, max. 10 sentences)

4) Solid fuel, 5) Liquid fuels,						
6) Gaseous fuels,						
7) Lubricants and their role in mechanical	engineer	ing,				
8) General classification and the choice of	type of l	ubricant,				
9) Industrial water,						
10) Crystalline materials. The structure dia	grams F	e-Fe ₃ C and Fe-C.				
11) Mechanical, technological and non-des	structive	testing.				
12) Steels.						
13) Carbon and alloyed steel.						
14) Structural, tool and steels special purpo	oses.					
15) Cast iron.						
16) Non-ferrous alloys.						
17) Ceramic materials.						
18) Composite materials.						
19) The choice of material from the standp	oint of p	roperties, processability	, availability, price, etc			
Language of Instruction						
⊠Serbian (complete course)	English	(complete course)	Other	(complete course)		
☐ Serbian with English mentoring ☐ Serbian with other mentoring						
Assessment Methods and Criteria						
Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	5	Written Examination	50			
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)			
	25	Overall Sum	100			
Tractical Teaching	35 Overall Sum rk is formed in accordance with the Institution		100			