

UNIVERSITY OF NIŠ

Course Unit Descriptor Fac	culty		
GENERAL INFORMATION			
	BASIC ACADEMIC STUDIES		
Study program	Mechanical engineering		
Study Module (if applicable)			
Course title	B.6.3-E.9-5 Electrical and Electronic Component in Mechatronic		
Level of study	☑Bachelor ☐ Master's ☐ Doctoral		
Type of course	☐ Obligatory ☑ Elective		
Semester	☐ Autumn ☑Spring		
Year of study	III		
Number of ECTS allocated	6		
Name of lecturer/lecturers	Aca D. Micic		
Teaching mode	 ☑ Lectures ☐ Group tutorials ☐ Individual tutorials ☐ Seminar ☐ Distance learning ☐ Blended learning ☐ Other 		
PURPOSE AND OVERVIEW (max. 5 sentences)			
electromechanical and electronic components. Stu	the field of mechatronics familiar with the basic characteristics of basic dents acquire knowledge on the basis of which they can use basic design simpler applications. Students are trained to use software		
SYLLABUS (brief outline and summary of topics, max. 10 sentences)			
 Basic concepts and definitions Resistors Capacitors The coils and reactors PN junction, semiconductor diodes Thyristors, transistors, 			

 Types of transistors 				
Kola with transistors				
Fet, circuits with FETs				
Operational amplifier				
AD and DA converters logic				
Digital circuits and microprocessors				
LANGUAGE OF INSTRUCTION				
✓ Serbian (complete course) 🗆 English ((complete course) \Box 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	0	
Practical teaching		Oral examination	45	
Teaching colloquia	15+15+15	OVERALL SUM	100	
*Final examination mark is formed in accordance with the Institutional documents				