

## UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Facul	ty of Mecha	echanical Engineering in Nis		
GENERAL INFORMATION		<u></u>					
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Basic of Biomedical Engineering						
Level of Study	⊠Bachelor		Master's  Doctoral				
Type of Course	Obligatory Elective						
Semester	🛛 Autumn 🗆 Spring						
Year of Study	IV						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Miroslav D. Trajanovic						
	⊠ Lectures		Group tut	orials [	Individual tutorials		
Teaching Mode	🗵 Laboratory work		🗆 Project work		] Seminar		
	□ Distance	learning 🗌	Blended le	earning [	] Other		
Purpose and Overview (max. 5 se	ntences)						
engineering, software tools, device	s and technol rs who can de	ogies that are ap	plied medio	ine and bio	ing. Students will learn the principles of logy for the diagnosis, monitoring and products that are used in medicine,		
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Devices for diagnosis, monitoring Aids, implants and bionics. Measurement and monitoring in b Modelling bodies and processes Biomedical materials Basics of biomechanics Tissue engineering Genetic engineering, neural engin Design and development of medic Design of implants and prosthetic	eering and pl cal devices an	narmaceutical En					
Language of Instruction							
⊠Serbian (complete course)	🛛 Eng	lish (complete co	ourse)	🗆 Othe	r (complete course)		
□Serbian with English mentoring	□Serb	ian with other m	entoring_				

Assessment Methods and Criteria						
Pre exam Duties	Points	Final Exam	Points			
Activity During Lectures	10	Written Examination	40			
Practical Teaching		Oral Examination				
Teaching Colloquia	50	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						