

UNIVERSITY OF NIŠ

Course Unit Descripto		Faculty	Fa	aculty of Mec	ulty of Mechanical Engineering		
GENERAL INFORMATION							
Study Program	Manufacturing & Information Technologies						
Study Module (if applicable)	-						
Course Title	Manufacture of medical devices and implants						
Level of Study	□ Bachelor						
Type of Course	Obligatory Elective						
Semester	Autumn Spring						
Year of Study							
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Miodrag T. Manić,						
Teaching Mode	LecturesLaboratoDistance	□ ry work ⊠ learning □	Group Project Blende	tutorials t work ed learning	□ Individual tuto⊠ Seminar□ Other	orials	
Purpose and Overview (max. 5 sentences)							
The acquisition of skills to analyze, design and manufacturing of medical devices, with special emphasis on the skeletal prosthetics.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
1) Medical implants, definitions, types, forms and purposes., 2) Legal and ethical standards in the production and application of medical supplies, 3) Geometrical characteristics of denture upper and lower extremities. 4) CAD modeling of implants, 5) Materials for prosthetic devices, criteria for the selection and testing of materials, 6) Traditional and Additive technologies for the production of implants and devices, 7) Surface treatment, 8) Design customized implants, 9) Tissues Engineering and scaffold.							
Language of Instruction							
⊠Serbian (complete course)	🛛 Engl	⊠ English (complete course) □ Other(complete course)				_(complete course)	
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties		Final Exam		Points			
Activity During Lectures	10	Written Exami	ination	20			

Practical Teaching	10	Oral Examination	20				
Teaching Colloquia	40	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							