

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	Faculty of Med	culty of Mechanical Engineering			
ENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	_						
Course Title	Virtual Product Development						
Level of Study	☐ Bachelor	☐ Mas	ter's ⊠ Doctoral				
Type of Course	☐ Obligator	y ⊠ Elec	tive				
Semester	☐ Autumn	⊠ Spri	ng				
Year of Study	I						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Milčić S. Dragan, Mijajlović M. Miroslav						
Teaching Mode	☑ Lectures☑ Laborator☐ Distance I	ry work 🛮 🖾 Proje	o tutorials ⊠ Individual tutoria ct work ⊠ Seminar led learning □ Other		ials		
Purpose and Overview (max. 5 sentences)							
To introduce students to advanced contents in field of virtual product development. To enable the students to independently and based on scientific principles perform product development by usage of virtual product development methods and tools.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Industrial Product Development. Vi Mock-Up (DMU). Finite Elements M Reality. Product technical documer (NC/RC/MC). Planning of manufacti development (Concurrent Design,	Method (FEM) ntation. Rapic uring and con), Computational Fluid I prototyping (RPT). I Itrol. Product data ma	d Dynamics (CF Numerical Con	FD). Multi-Body Sim trol/Robot Control/	ulation (MBS). Virtual Measure Control		
Language of Instruction							
⊠Serbian (complete course)	⊠ Engli	sh (complete course)	□ Otl	her	(complete course)		
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam	Points	Points			
Activity During Lectures		Written Examination	on –				

Practical Teaching	45	Oral Examination	50			
Teaching Colloquia	-	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						