

UNIVERSITY OF NIŠ

Course Unit Descrip	otor	Facult	у	Faculty of Me	chanical Engineering		
GENERAL INFORMATION							
Study Program	Manufacturing & Information Technologies						
Study Module (if applicable)	-						
Course Title	Advanced application of finite element method						
Level of Study	□Bachelor		⊠ <ma< td=""><td>ster's</td><td>□Doctoral</td><td></td></ma<>	ster's	□Doctoral		
Type of Course	☐ Obligatory		⊠ Elective				
Semester	⊠Autumn		□Sprii	ng			
Year of Study	I						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Nikola D. Ko	runović					
Teaching Mode	☑ Lectures☑ Laboratory work☐ Distance learning		⊠ Proje	p tutorials ect work ded learning	☐ Individual tutorials☑ Seminar☐ Other		
Purpose and Overview (max. 5 ser	ntences)						
Students should gain theoretical and behavior and/or are subjected to cor	•				structures that exhibit highly nonlinear		
Syllabus (brief outline and summa	ry of topics, r	max. 10 sent	tences)				
contact nonlinearities Dynamic analysis Transient thermal analysis Coupled-field structural-ti Elastic-plastic material be Examples from engineeri	is hermal analy ehavior ng practice: I tures with ha	sis rubber base	ed produc	cts, transient t	es with material, geometrical and thermal analysis of machine tools, res exhibiting plastic strains		
Language of Instruction							
⊠Serbian (complete course)	⊠ Engli	ish (complet	te course		her (complete course)	-	
☐ Serbian with English mentoring	g Serbian with other mentoring						
Assessment Methods and Criteria	1						

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	10	Written Examination	o
Practical Teaching	40	Oral Examination	30
Teaching Colloquia	20	Overall Sum	100

^{*}Final examination mark is formed in accordance with the Institutional documents