

## **UNIVERSITY OF NIŠ**

Course Unit Descriptor		Faculty	<b>/</b> F	aculty of Me	<sup>-</sup> Mechanical Engineering			
GENERAL INFORMATION								
Study Program	Mechanic	Mechanical Engineering						
Study Module (if applicable)	-	-						
Course Title	Application	Application of finite element method						
Level of Study	⊠ Bachelor	☐ Bachelor □ <master's doctoral<="" td="" □=""></master's>						
Type of Course	🗆 Obligato	□ Obligatory ⊠ Elective						
Semester	🗆 Autumn	□ Autumn ⊠ Spring						
Year of Study		111						
Number of ECTS Allocated	6							
Name of Lecturer/Lecturers	Nikola D. Ko	Nikola D. Korunović						
	⊠ Lectures	🖂 Lectures 🛛 🖾 Group tutorials 🗆 Individual tutorials						
Teaching Mode	🛛 Laborato	ory work	🛛 Projec	t work	🛛 Seminar			
	□ Distance	□ Distance learning		ed learning	□ Other			
Purpose and Overview (max. 5	sentences)							
Students should learn the techniq analysis, with accent to finite elen	ues for applicat nent model buil	ion of finite el ding.	ement me	thod (FEM) ir	n structural stati	c, dynamic and the	rmal	
Syllabus (brief outline and sum	mary of topics,	max. 10 sente	ences)					
<ul> <li>Introduction to FEM, B</li> <li>The process of finite element</li> <li>Types of finite element</li> <li>Linear structural analysis</li> <li>Thermal analysis</li> <li>Examples from engine</li> </ul>	asic elements lement analysis is and basic for sis: modeling, e ering practice	of a FE mode s (FEA), deta rmulations errors and ac	əl iiled desc scuracy	ription of ph	ases in FEA			
Language of Instruction								
⊠Serbian (complete course)	erbian (complete course)					urse)		
□Serbian with English mentorir	ng 🗆 Serb	ian with othe	r mentorir	ng				
Assessment Methods and Criteria								
Pre exam Duties	Point	s Final Exam		Points				

Activity During Lectures	10	Written Examination	40				
Practical Teaching	30	Oral Examination	ο				
Teaching Colloquia	20	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							