

UNIVERSITY OF NIŠ

Course Unit Descripto		Faculty	Y Fa	aculty of Med	chanical Engineering		
GENERAL INFORMATION		-1					
Study Program	Mechanic	Mechanical Engineering					
Study Module (if applicable)	-	-					
Course Title	Design of m	Design of mobile machines					
Level of Study	⊠Bachelor	Bachelor		Master's Doctoral			
Type of Course	🗆 Obligato	iry	⊠ Elective				
Semester	🗆 Autumn	🗆 Autumn		⊠ Spring			
Year of Study	IV						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Dragoslav E	Dragoslav B. Janošević					
	⊠ Lectures		□ Group tutorials		Individual tutorials		
Teaching Mode	🛛 Laborato	ory work	🛛 Project work		🖂 Seminar		
	□ Distance	learning	□ Blended learning		□ Other		
Purpose and Overview (max. 5 s	entences)						
Functional, structural and param machines. Methodology develop drive systems and kinematic chai	netric analysis oment, mathen ns of mobile m	of mobile (cor natical modelii achines.	nstruction ng and de	n, mining, tra esign of mot	insportation, agricultural and municipal pile machines. Calculation and design o		
Syllabus (brief outline and summ	nary of topics,	max. 10 sente	nces)				
1) General definition of mobile m structure of functions and impac model of kinematic chain of mac of work 8) Kinematics and dynam and hydrostatic transmissions m 11) Systems power assisted mana	nachines, 2) Protect parameters of hines, 6) Types nics movement of m gement, 12) Mathematical data and the sement, 12) Mathematical data and the sement of the sement, 12) Mathematical data and the sement, 12) Mathematical data and the sement, 12) Mathematical data and the sement of the sement, 12) Mathematical data and the sement of th	ocess develop of machines, 4 s and shapes m of mobile machines obile machines echatronic con	ment and) Concep nobile ma chines on s, 10) Syn ntrol syste	l design of m ts of machin chines tools, caterpillars a thesis of driv ems for mobil	achines, 3) Parameters of environment e kinematic chains, 5) The mathematica 7) Modelling relations tools and objects and tires, 9) Calculation of hydrodynamic ving mechanisms manipulators machine le machinery.		
Language of Instruction							
⊠Serbian (complete course)	🛛 Eng	lish (complete	course)	□ Ot	her (complete course)		
□Serbian with English mentorin	lg □Serb	ian with other	mentorir	ng			
Assessment Methods and Criter	ria						
Pre exam Duties		s Final Exam		Points			

Activity During Lectures	5	Written Examination	50			
Practical Teaching	10	Oral Examination	Max. 35 (depending on Teaching Colloquia)			
Teaching Colloquia	35	Overall Sum	100			
*Final examination mark is formed in accordance with the Institutional documents						