

UNIVERSITY OF NIŠ

Course Unit Descriptor		Faculty	f	culty of Mechanical Engineering			
GENERAL INFORMATION		<u> </u>					
Study Program	Traffic e	Traffic engineering, transport and logistics					
Study Module (if applicable)	-	-					
Course Title	CAD studi	CAD studio of machines and vehicles					
Level of Study	Bachel	□ Bachelor					
Type of Course	🗆 Obligat	□ Obligatory					
Semester	🗆 Autum	□ Autumn ⊠ Spring					
Year of Study	I						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Dragoslav	Dragoslav B. Janošević					
	🛛 Lecture	⊠ Lectures		tutorials	Individual tutorials		
Teaching Mode	🛛 Labora	tory work	🛛 Project work		🖂 Seminar		
	🗆 Distano	□ Distance learning		ed learning	□ Other		
Purpose and Overview (max. 5	sentences)						
Engineering design methodolog designing machines and vehicles analysis of machines and vehicles	y and applica in the atmos s. criteria and	tion of availabl phere of CAD st methods of des	e and dev tudio. Mat	velopment c hematical m chines and v	of application software in the process of nodels, dynamic simulation and structural vehicles.		
Syllabus (brief outline and sum	mary of topic	s, max. 10 sente	ences)				
1) Basics of engineering design, Deploymet), 4) Software tools for machines and drive concepts, 6) development of application soft influential factors shaping mach vehicles 12) Structural analysis of	2) General pr or analysis an Developmen ware for ener nines and vel the skeleton	ocedure design d design of ma t of mathematio gy analysis of m nicles, 11) Criter s of machinery a	n of machi chines and cal models nachines a ria dimens and vehicl	nery and ve d vehicles, 5 s for dynami nd vehicles, sioning and es.	hicles, 3) Method QFD (Quality Function) Morphological analysis and selection of c simulation of machines and vehicles, 7) 9) Synthesis of the drive system, 10) The reliability of elements of machines and		
Language of Instruction							
Serbian (complete course)	🛛 En	glish (complete	e course)	□ Ot	her (complete course)		
□Serbian with English mentorir	ng 🗆 Sei	rbian with other	r mentorir	ng			
Assessment Methods and Crite	eria						
Pre exam Duties		nts 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						