

UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	F aculty of	Mechanical Engineerir	g	
GENERAL INFORMATION					
Study program		Mechatronics and Control			
Study Module (if applicable)	-				
Course title	Com	pliant Mechanisi	ns		
Level of study	□Ba	chelor	🛛 Master's	Doctoral	
Type of course		oligatory	Elective		
Semester	ΠΑι	ıtumn	Spring		
Year of study	I				
Number of ECTS allocated	6				
Name of lecturer/lecturers	Nena	Nenad D. Pavlović, Nenad T. Pavlović			
Teaching mode	⊠Le ⊠La □Di	ctures boratory work stance learning[Group tutorials Project work Blended learning	☐Individual tutorials ☐Seminar Other	
PURPOSE AND OVERVIEW (max. 5 sentences)					
The purpose of this course is to gain some basic knowledge in the field of analysis, synthesis and application of compliant mechanisms. Students should gain the ability to use and calculate the compliant mechanisms for realization of certain functions in mechatronic devices.					
SYLLABUS (brief outline and summary of topics, max. 10 sentences)					
 Types and characteristics of flexure hinges (compliant joints) Synthesis of compliant mechanisms with concentrated compliance Continuum synthesis approach for synthesis of compliant mechanisms Synthesis of compliant bistable mechanisms Compliant positioning systems Compliant grippers and manipulators Flexible fluidic actuators Adaptive compliant controllable systems 					

LANGUAGE OF INSTRUCTION						
Serbian (complete course) 🗌 English	(complete course)	ther (complete course)			
Serbian with English mentoring						
ASSESSMENT METHODS AND CRITERIA						
Pre exam duties	Points	Final exam	points			
Activity during lectures	10	Written examination				
Homework	40	Oral examination	Max. 50			
		OVERALL SUM	100			
*Final examination mark is formed in accordance with the Institutional documents						