

## **UNIVERSITY OF NIŠ**

Course Unit Descrip	otor	Faculty	F;	aculty of Mec	hanical Engineering		
ENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Kinematics						
Level of Study	☐ Bachelor ☐ Master's ☐ Doctoral						
Type of Course	⊠ Obligator	y [	□ Elect	ive			
Semester	⊠ Autumn □ Spring						
Year of Study	II						
Number of ECTS Allocated	6						
Name of Lecturer/Lecturers	Ratko G. Pavlović, Goran Janevski						
Teaching Mode	<ul><li>☑ Lectures</li><li>☐ Laboratory work</li><li>☐ Distance learning</li></ul>		<ul><li>☐ Group tutorials</li><li>☐ Project work</li><li>☐ Blended learning</li></ul>		<ul><li>☑ Individual tutorials</li><li>☐ Seminar</li><li>☐ Other</li></ul>		
Purpose and Overview (max. 5 ser		-					
The main objective of the course is and elements of mechanisms. Trair Theory of mechanisms.	•			•	•		
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Basic Concepts of Kinematics. I Determination of Particle Velocit Particle Acceleration. Basic Term Axis. Angular Velocity and Angu Kinematics of a Rigid Body. Relati	ty in Various s of Kinemat ular Accelera	Types of Coor cics of a Rigid B ation of a Rigi	dinate ody. T id Bod	Systems. Pa ranslation. R ly. Planar Ki	article Acceleration Rotation of a Rigid Inematics of a Rig	n. Determination of Body about a Fixed gid Body. Spherical	
Language of Instruction							
Serbian (complete course)   English (complete course)   Other (complete course)						(complete course)	
☑Serbian with English mentoring ☐Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam	inal Exam Points				
Activity During Lectures	5	Written Exami	ination	50	50		
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Practical Teaching	5	Oral Examination	Max. 50				
Teaching Colloquia	50	Overall Sum	100				
*Final examination mark is formed in accordance with the Institutional documents							

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