

## **UNIVERSITY OF NIŠ**

Course Unit Descriptor		Faculty	racuity of Med	aculty of Mechanical Engineering			
ENERAL INFORMATION							
Study Program	Mechanical Engineering						
Study Module (if applicable)	-						
Course Title	Systems Con	ntrol					
Level of Study	□Bachelor	☐ Mas	ter's	⊠ Doctoral			
Type of Course	☐ Obligator	y ⊠ Elec	tive				
Semester	☐ Autumn	⊠ Spri	ng				
Year of Study	I						
Number of ECTS Allocated	10						
Name of Lecturer/Lecturers	Vlastimir Nikolić, Žarko Ćojbašić						
Teaching Mode	<ul><li>☑ Lectures</li><li>☑ Laborator</li><li>☑ Distance I</li></ul>	ry work 🛮 🖾 Proje	p tutorials ct work ded learning	<ul><li>☐ Individual tutorials</li><li>☑ Seminar</li><li>☐ Other</li></ul>			
Purpose and Overview (max. 5 sentences)							
Introduction of students to basic principles of analysis and application of components of automatic control systems for the purpose of contemporary industrial control systems design. Allow students to get insight into contemporary methods of analysis and design of control systems, from the viewpoint of selection of proper components.							
Syllabus (brief outline and summary of topics, max. 10 sentences)							
Theory * Control loop and its components. Control objects. * Measuring elements – sensors. * Converters. Actuators. Compensators and controllers. * Components of digital control systems. Power supplies. * Examples of implemented systems.  Guided independent research * Preparation of students for independent research into the written literature, scientific journals, and web portals within the field of components of automatic control systems.							
Language of Instruction							
⊠Serbian (complete course)							
□Serbian with English mentoring □Serbian with other mentoring							
Assessment Methods and Criteria							
Pre exam Duties	Points	Final Exam	Points				
Activity During Lectures	o	Written Examination (2 term papers)	on 50				

Practical Teaching	o	Oral Examination	50		
Teaching Colloquia	o	Overall Sum	100		
*Final examination mark is formed in accordance with the Institutional documents					

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