



UNIVERSITY OF NIŠ

Course Unit Descriptor

Faculty

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Manufacturing & Information Technologies		
Study Module (if applicable)	-		
Course Title	Computer systems for control and supervision in production		
Level of Study	<input type="checkbox"/> Bachelor	<input checked="" type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input checked="" type="checkbox"/> Obligatory	<input type="checkbox"/> Elective	
Semester	<input type="checkbox"/> Autumn	<input checked="" type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Vladislav A. Blagojević		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input checked="" type="checkbox"/> Laboratory work	<input checked="" type="checkbox"/> Project work	<input checked="" type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

Introduce students to the basics of analysis and synthesis of digital control and monitoring of production processes and based on the given conditions, according to the established form to design the program for the appropriate type of control.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) General introduction to control and monitoring, 2) Digital system control parts, 3) Number systems and codes, 4) Minimization and realization of logical functions, 5) Digital control system technology, 6) Combinational and sequential machine, 7) Introduction to PLC, 8) Structure and components of PLC, 9) PLC programming, 10) Introduction to SCADA systems, 11) Structure and components of SCADA.

Language of Instruction

Serbian (complete course) English (complete course) Other _____ (complete course)

Serbian with English mentoring Serbian with other mentoring _____

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	10	Written Examination	25

Practical Teaching	10	Oral Examination	25
Teaching Colloquia	30	Overall Sum	100

***Final examination mark is formed in accordance with the Institutional documents**