

Course Unit Descriptor

<b>Study Programme:</b> Computing and Control Engineering			
<b>Course Unit Title:</b> Control Systems Technology			
<b>Course Unit Code:</b> 06 - E238A			
<b>Name of Lecturer(s):</b> Kulić Filip			
<b>Type and Level of Studies:</b> Bachelor level			
<b>Course Status (compulsory/elective):</b> compulsory			
<b>Semester (winter/summer):</b> winter			
<b>Language of instruction:</b> english			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> face-to-face			
<b>Number of ECTS Allocated:</b> 6			
<b>Prerequisites:</b> none			
<b>Course Aims:</b> Students learn about modern technologies and development trends in the field of control systems.			
<b>Learning Outcomes:</b> The acquired knowledge can be used in solving practical engineering problems and form the basis for future engineering courses.			
<b>Syllabus:</b> Systematic engineering approach and computer control systems. Basic theoretical knowledge which enables understanding of laboratory classes with semi- industrial plants (temperature regulations, level and flow, Ph value, DC motor, robotic hand, digital signal processing, SCADA), as well as understanding of processes encountered with real life industrial plants. Current computer based automatic control projects for industrial purposes. Visits to industrial plants and other institutions which apply bioengineering technologies in order to examine contemporary technologies of computer based control.			
<b>Required Reading:</b> Relevant literature in English TBD			
<b>Weekly Contact Hours:</b> 2	<b>Lectures:</b> 2	<b>Practical work:</b> 0	
<b>Teaching Methods:</b> Lectures. Laboratory and computer-laboratory practice classes. Consultations. Part of the course which forms a logical whole can be taken in the form of colloquium. Colloquium and examination are written and oral. Both parts are taken in written form. The final grade is based on the colloquium, obligatory assignment, written and oral part of the examination.			
<b>Knowledge Assessment (maximum of 100 points):</b> 100			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Group Assignment		Examination Assignment	
Exercises			
Test			
Test			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			