

Study program: Mechatronics			
Type and level of studies: Master studies			
<b>Course unit: Electronic Components and Devices</b>			
<b>Teacher in charge: Milan Vesković</b>			
Language of instruction: English			
ECTS: 6			
Prerequisites: none			
Semester: Winter			
<b>Course unit objective:</b> Introduction to electronic components included in every electronic configuration and the application of catalogue of the component manufacturer.			
<b>Learning outcomes of Course unit:</b> Acquiring the techniques for designing electronic systems with commercially available electronic components			
<b>Course unit contents</b>			
<i>Theoretical classes</i> Resistor, condenser and inductor as electronic components. Diode as electronic component, BJT, FET and MOSFET transistor as electronic components. Analog and digital integration circuits as electronic components.			
<i>Practical classes</i> Seminars, homework and elaboration of a project in the area of the electronic components and devices			
<b>Literature</b>			
1. Victor Meeldijk: Electronic Components-Selection and Application Guidelines, Wiley- Interscience, 1996.			
2. Finn Jensen, Electronic Components Reliability: Fundamentals, Modeling, Evaluation and Assurance, John Wiley&Sons, 1996.			
<b>Number of active teaching hours</b>			<b>Other classes</b>
Lectures: 2	Practice: 2	Other forms of classes:	
<b>Teaching methods</b>			
<b>Examination methods ( maximum 100 points)</b>			
<b>Exam prerequisites</b>	<b>No. of points:</b>	<b>Final exam</b>	<b>No. of points:</b>
Student's activity during lectures	10	oral examination	30
Practical classes/tests	10	written examination	
Seminars/homework	20	.....	
Project	30		
Other			
<b>Grading system</b>			
<b>Grade</b>	<b>No. of points</b>	<b>Description</b>	
10	91-100	Excellent	
9	81-90	Exceptionally good	
8	71-80	Very good	
7	61-70	Good	
6	51-60	Passing	
5	less than 51	Failing	