

Study program: Mechatronics			
Type and level of studies: Master studies			
Course unit: Electronic Components and Devices			
Teacher in charge : Djukić R. Slobodan			
Language of instruction: English			
ECTS: 6			
Prerequisites: none			
Semester: Winter			
Course unit objective: Introducing to students electronic components included in every electronic configuration and the application of catalogue of the component manufacturer.			
Learning outcomes of Course unit: Acquiring technique for projecting electronic systems with commercially available electronic components			
Course unit contents <i>Theoretical classes</i> Resistor, condenser and inductor as electronic component. Diode as electronic component, BJT, FET and MOSFET transistor as electronic component. Analog and digital integration circuits as electronic component. <i>Practical classes</i> Seminars, homework and elaboration of a project in the area of the electronic components and devices			
Literature 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.			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 2	Other forms of classes:	
Teaching methods			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	10	oral examination	30
Practical classes/tests	10	written examination	
Seminars/homework	20	
Project	30		
Other			
Grading system			
Grade	No. of points	Description	
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	