

Study program: Urban engineering			
Type and level of studies: Bachelor academic studies			
Course unit: Electrical and electronics engineering			
Teacher in charge: Radulović J. Jasna			
Language of instruction : English			
ECTS: 6			
Prerequisites: None			
Semester: Summer Semester			
Cours eunit objective During this course students are introduced to the fundamental theoretical laws of electrical engineering and electronics. Laboratory practices include training for the application of various electric measurement devices.			
Learning outcomes of Course unit This course will give students a comprehension of the fundamental principles and practical knowledge of the electrical and electronics engineering.			
Course unit contents <i>Theoreticalclasses</i> 1. Electrostatics. 2. Direct current. 3. Electromagnetism. 4. Alternating current. 5. Electrical machines. 6. Electronics. <i>Practicalclasses</i> Ohm's law, Kirchhoff's circuit laws, Induction motors, Basic electronics elements and circuits.			
Literature S. K. Bhattacharya, Basic Electrical and Electronics Engineering, Pearson Education India, 2011 V. Vodovozov, Introduction to Electronic Engineering, London, UK: Bookboon, 135 p, 2010			
Number of active teaching hours			Other classes
Lectures: 2	Practice: 2	Other forms of classes:	Independen twork: 1
Teaching methods Teaching is performed through lectures and exercises (auditory and laboratory).			
Examination methods (maximum 100 points)			
Exam prerequisites	No. of points:	Final exam	No. of points:
Student's activity during lectures	5	Oral examination	30
Practical classes/tests	20	written examination	
Seminars/homework		Colloquiums(s)	45
Project			
Other			
Grading system			
Grade	No. of points	Description	
10	91-100	Excellent	
9	81-90	Exceptionallygood	
8	71-80	Verygood	
7	61-70	Good	
6	51-60	Passing	
5	0-50	Failing	