

<b>Study program:</b> Urban engineering			
Type and level of studies: Bachelor academic studies			
<b>Course unit:</b> Electrical and electronics engineering			
<b>Teacher in charge:</b> Radulović J. Jasna			
<b>Language of instruction :</b> English			
<b>ECTS:</b> 6			
<b>Prerequisites:</b> None			
<b>Semester:</b> Summer Semester			
<b>Cours eunit objective</b> 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.			
<b>Learning outcomes of Course unit</b> This course will give students a comprehension of the fundamental principles and practical knowledge of the electrical and electronics engineering.			
<b>Course unit contents</b>  <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.			
<b>Literature</b> S. K. Bhattacharya, Basic Electrical and Electronics Engineering, Pearson Education India, 2011 V. Vodovozov, Introduction to Electronic Engineering, London, UK: Bookboon, 135 p, 2010			
<b>Number of active teaching hours</b>			<b>Other classes</b>
Lectures: 2	Practice: 2	Other forms of classes:	Independen twork: 1
<b>Teaching methods</b> Teaching is performed through lectures and exercises (auditory and laboratory).			
<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	5	Oral examination	30
Practical classes/tests	20	written examination	
Seminars/homework		Colloquiums(s)	45
Project			
Other			
<b>Grading system</b>			
<b>Grade</b>	<b>No. of points</b>	<b>Description</b>	
<b>10</b>	91-100	Excellent	
<b>9</b>	81-90	Exceptionallygood	
<b>8</b>	71-80	Verygood	
<b>7</b>	61-70	Good	
<b>6</b>	51-60	Passing	
<b>5</b>	0-50	Failing	