

Course Unit Descriptor

Study Programme: Power, Electronic and Telecommunication Engineering (Power Engineering-Systems)			
Course Unit Title: Electric Machines 2			
Course Unit Code: EE307			
Name of Lecturer(s): Veran Vasić			
Type and Level of Studies: Bachelor level			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): summer			
Language of instruction: english			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 5			
Prerequisites: none			
Course Aims: Acquiring basic knowledge in the field of electromechanical conversion of energy, electric machines, power electronic devices and electromotive drives			
Learning Outcomes: - understanding the basic principles of electromechanical conversion of energy - understanding the basic properties and modes of rotary machines			
Syllabus: Electric machines with DC. DC machines according to the excitation power. Parts and design, commutation, application, properties, movement, speed control. Synchronous machines, parts and construction, application, properties, parameters, equivalent circuit, vector diagrams, external properties, angular features, operating map.			
Required Reading: Relevant literature in English TBD			
Weekly Contact Hours: 4	Lectures: 2	Practical work: 2	
Teaching Methods: The course consists of lectures and practice. Contemporary illustrations for intuitive understanding of the taught matter are used in lectures. In order to fully master the course, problems are solved in auditory practice which accompany lecture and encourage students to independently solve problems from the engineering practice. Part of the practice is carried out in the laboratory.			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Exercise attendance	5	Written part of the exam	30
Laboratory exercise attendance	5		
Colloquim exam	20		
Colloquim exam	20		
Test	20		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			