COURSE GUIDE - short form

Academic year 2017-2018

Course name ¹	EL	ELECTRIC MACHINES AND DRIVES				Course code			3ISI07	
Course type ²	DS	Category ³	ОО	Year of study	Ш	Semester	II	of	umber credit ooints	4

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Field Industrial engineering		L	Т	LB	Р	IS
Specialization	Specialization Industrial safety engineering		28	-	28	-	-

Pre-requisites from	Compulsory	-
the curriculum ⁵	Recommended	Mathematical analysis, physics, electrotechnics

General objective ⁶	During the course students will acquire the technical knowledge necessary for the efficient use of the electric driving components in making the best driving diagram for the requirements of the driven equipment, in accordance with the costs afferent to its execution and efficient use				
Specific objectives ⁷	 Basic laws of electrotechnics and mechanics applied in the study of the phenomena related to the electric driving machines and systems General issues regarding the elements of the electric drive systems Fundamental phenomena regarding the electric machines used in the positioning systems 				
Course description ⁸	The electric charge conservation law, the law of electromagnetic induction, choice of electric machines depending on the use conditions, basic constructive elements of the continuous current machines, basic constructive elements of the electrical transformers, basic constructive elements of the three-phase asynchronous machines				

	Assessment	Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰		
Class tests along the semester			-	%	
Continuous assessmen t Activity during tutorials/laboratory works/projects/practical work		ory	Continuous assessmen t	40%	
	Assignments	-	%		
	Final assessment form ¹¹	Colloquium	Week 14		
Final assessmen t	Examination procedures and containing.			60%	

Course organizer	Lecturer PhD Eng. Diana Antonia GHEORGHIU	
Teaching assistants	Lecturer PhD Eng. Diana Antonia GHEORGHIU	

¹Course name from the curriculum

² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³ DI – imposed, DO –optional, DL – facultative (from the curriculum)

- ⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)
- ⁵ According to 4.1 Pre-requisites from the Course guide extended form
- ⁶ According to 7.1 from the Course guide extended form
- ⁷ According to 7.2 from the Course guide extended form
- ⁸ Short description of the course, according to point 8 from the Course guide extended form
- 9 For continuous assessment: weeks 1-14, for final assessment colloquium: week 14, for final assessment-exam: exam period
- ¹⁰ A minimum grade might be imposed for some assessment stages
- 11 Exam or colloquium