COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Elements ofindustrial electronics					Course code 4ISI01DID			
Course type ²	DID	Category ³	DI	Year of study	4	Semester	7	Number of credit points	5

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴			ng		
Field	Industrial Engineering	Total	L	Т	LB	Р	IS
Specialization Security EngineeringinIndustry		70	28	-	14	-	28

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	Physics 2, Materials Science and Engineering

General objective ⁶	Acknowledgement and appropriate use of theoretical concepts and practical elements of industrial electronics
Specific objectives ⁷	Acquiring theoretical knowledge on semiconductors and conductors and the main types of circuit elements; Calculation of parameters of electronic circuits; Know the implications of electronics in modern techniques of analysis and measurement and control devices
Course description ⁸	Getting solidphysics, conductors and semiconductors; Real and ideal circuit elements, circuit analysis, measurement parameters, power supplies; Recovery and stabilization, power amplifiers, digital circuits. Specific electronic elements of modern techniques of analysis and measurement and control devices.

	Assessment	Schedule ⁹	Percentage of the final grade(minimum grade) ¹⁰		
Continuous assessment	Class tests along the semester	Test , week 10	20%		
	Activity during tutorials/laboratory works/projects/practical work	Weekly	30%		
	Assignments	-	%		
Final	Final assessment form ¹¹ E		examination session	50%	
assessment	Examination procedures and conc Oral examination with 2 subjects		50%		

Course organizer	Lecturer dr. eng. Ioan Gabriel SANDU	
Teaching assistants	Lecturer dr. eng. Ioan Gabriel SANDU	

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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According 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