

COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Applied electronics into industrial processes					Course code	2EPI16DID		
Course type ²	DID	Category ³	DI	Year of study	2	Semester	3	Number of credit points	4

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴						
Field	Mechanical Engineering	Total	L	T	LB	P	IS	
Specialization	Equipments for industrial processes	84	28	-	28	-	28	

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	

General objective ⁶	Developing knowledge, thinking and technical training in industrial, power electronics. Developing knowledge regarding the performances of the equipments with electronic devices.
Specific objectives ⁷	<ul style="list-style-type: none"> • Identify the limits of the equipments; • Studying inverters, rectifiers and so on. • Main benefit – a product the best money can buy with minimum energetic and material costs.
Course description ⁸	<ul style="list-style-type: none"> • Semiconductor diodes, semiconductor switches, rectifier, inverter, etc.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester	S7	20%
	Activity during tutorials/laboratory works/projects/practical work	S1 ... S14	30%
	Assignments	-	-%
Final assessment	Final assessment form ¹¹	Exam	50%
	Examination procedures and conditions: 1. Closed question, oral response - 30%; 2. Open question, oral response - 40%; 3. Open question, concerning practical, laboratory work - 30%		

Course organizer	
Teaching assistants	

¹Course name from the curriculum

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

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

⁴Points 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

⁷According 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

¹⁰A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium