

COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Welding processes theory					Course code	3ISI12DID			
Course type ²	DID	Category ³	DO	Year of study	3	Semester	6	Number of credit points	3	

Faculty	Science and Engineering of materials					Number of teaching and learning hours ⁴					
Field	Industrial Engineering					Total	L	T	LB	P	IS
Specialization	Safety engineering in industry					84	28		28		28

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Developing analysis/selection/synthesis abilities concerning various welding situations. Capability to identify / estimate related process risks on short/long term.
Specific objectives ⁷	<ul style="list-style-type: none"> • Knowledge of different welding processes, their appliance domain, work parameters, specific hazardous. • Specific phenomena and security/hygiene issues that arise. • Peculiarities of different technical solutions on immediate or long term risk level.
Course description ⁸	Joining solutions (common welding processes and some relative rare processes), soldering, brazing: domains of appliance and limits, working parameters, parameters selection criteria. Specific effects of the welding processes on the work environment. Specific welding processes risks and safety procedures.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester	7	10 %
	Activity during tutorials/laboratory works/projects/practical work		40 %
	Assignments		0 %
Final assessment	Final assessment form ¹¹	Colloquium	50 %
	Examination procedures and conditions: <ol style="list-style-type: none"> 1. Theoretical close ended questions : 20%; 2. Open ended questions: 30%; 3. Selecting one/ couple of welding processes for a given joining case, argued: 50% 		

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