

COURSE GUIDE – short form

Academic year 2021-2022

Course name ¹	WELDING MATERIALS TECHNOLOGY					Course code	3 ISI 12		
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	72	28		28		16

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.

Assesment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ : COLLOQUIUM	Class tests along the semester	%	-	50 % (minimum 5)
	Home works	%	-	
	Other activities	%	-	
	Examination procedures and conditions: Probe 1: Theoretical close ended questions, working conditions- ORALLY; Probe 2: Open ended questions, working conditions- ORALLY; Probe 3: Selecting one/ couple of welding processes for a given joining case, argued, ORALLY.	20% 30% 50%	14 th week	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			50 % (min. 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	Lecturer Phd. Eng. Diana Antonia GHEORGHIU
Teaching assistants	Assistant Phd. Eng. Diana Petronela BURDUHOS NERGIS

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