COURSE GUIDE – short form

Academic year 2018 - 2019

Course type 2 DSCategory 3 DOYear of study3Semester5Number of credit	Course name	Weldi	ng Metallurgy				Cou	rse c	ode 3SM10I	DS
points	Course type	DS	Category ³	DO	Year of study	3	Semester	5	Number of credit points	4

Faculty	Faculty of Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials engineering	Total	L	Т	LB	Р	IS
Specialization	Materials Science	100	28		14		58

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	To develop students' abilities of analyzing/selecting/putting together phenomena in welding field.
Specific objectives ⁷	 Understanding the changes that occur into material's properties secondary to welding. Basic knowledge regarding discontinuities origin and the main possibilities of reducing their amount. Some methods to emphasize weld quality.
Course description ⁸	Weld, heat affected zone, add material, high rate solidification problems, induced fragility (through structural changes, chemical composition changes), Schaeffler diagram, discontinuities (cracks, pores, etc.), destructive /nondestructive tests, steel welding, aluminum welding, Copper, nickel welding.

	Sche- dule ⁹	Percentage in the final grade(minimum grade) ¹⁰			
	Class tests along the semester	40%	7th and 8th Week		
A. Final assessment	Home works	%			
	Other activities	%			
form ¹¹ : Colloquium	Examination procedures and conditions: Probe 1: working conditions - ORAL, closed/open questions,; percent of the final grade 50%; Probe 2: Problem solving or selecting a technical solution; tasks: argue about the solution; working conditions oral; percent of the final grade 50%; Probe 3: working conditions; percent of the final grade %;	60% (mini- mum 5)		50% (minimum 5)	
B. Seminar	Activity during seminar			% (minimum 5)	
C. Laboratory Activity during laboratory				50% (minimum 5)	
D. Project Activityduringproject				% (minimum 5)	

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

 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, Pproject, IS-individual study)

- 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

⁹For 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
- ¹¹Exam or colloquium

¹Course name from the curriculum