COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	EQUIPMENT FOR HEAT TREATMENT AND UNCONVENTIONAL THERMOCHEMICAL TREATMENTS				Codul di	6 SITM	6 SITM 13		
Course type ²	DID	Category ³	DI	Year of study	2M	Semester		Number of credit points 6	

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	SITM	42	28	-	14	-	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	eneral objective ⁶ Heat and thermochemical treatments using laser, plasma, electron beam or other adv methods used in materials processing.			
Specific objectives ⁷	objectives ⁷ Knowledge, analysis, design and efficient used and effective and appropriate use of laterative treatments and thermochemical technologies used in machinery industry.			
Course description ⁸	 Introduction The opportunity of special heat treatment processes and unconventional used in machinery industry. Heat and thermochemical treatment in the ultrasound field. Heat treatment in magnetic field. Heat and thermochemical treatment with plasma heat. Heat treatment with fast and ultrafast heating. Heat and thermochemical treatment in fluidized bed. 			

Assessment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
	Class tests along the semester -	week	%	
Continuous assessment	Activity during tutorials/laborator works/projects/practical work		25 %	
	Assignments 1		week 14	25 %
	Final assessment form ¹¹	exam	-	
Final assessmentExamination procedures and conditions:1; tasks answer to closed questions; working condition percent 50 %;2; tasks answer to closed questions; working condition percent 50 %;3; tasks -; working conditions -; percent %;				50 % (minimum 5)

Course organizer	Lecturer Ph.D. Eng. Carmen NEJNERU	
Teaching assistants	Assist.Ph.D.Eng. Catalin Andrei TUGUI	

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