COURSE GUIDE - short form

Academic year 2017 - 2018

Course name ¹	HEAT AND THERMOCHEMICAL TREATMENTS TECHNOLOGIES				Codul disciplinei			3 EPI 03		
Course type ²	DS	Category ³	DI	Year of study	3	Semester	5		umber of dit points	6

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴			ng		
Field	Mechanical Engineering	Total	L	T	LB	P	IS
Specialization	EPI	84	28	-	28	28	

Pre-requisites from the	Compulsory	
curriculum ⁵	Recommended	Chemistry, Physics, Study materials

General objective ⁶	Study of technologies used to heat treatments and thermochemical as a final operation in the material properties required for exploatation			
Specific objectives ⁷	Knowledge, analysis, design and efficient used and effective and appropriate use of he treatments and thermochemical technologies used in machinery industry.			
Course description ⁸	I. Introduction. The purpose of heat treatments. II. The link between equilibrium diagrams and thermal treatments applied. III. Thermal parameters and specific temporal for heat treatments and thermochemical technologies. IV. Primary thermal treatment technology. V. Steels quenching technology; Quench implementing technology solution; Martensitic hardening technology; Shallow hardening. VI. Annealing technology. VII. Thermochemical treatments.			

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

Course organizer	Lecturer Ph.D. Eng. Carmen NEJNERU	
Teaching assistants	As.Ph.D.Stud.Eng. Dumitru-Doru BURDUHOS-NERGIS	

¹Course name from the curriculum

Formular TUIASI.POB.04-F2, rev.0

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