COURSE GUIDE - short form

Academic year 2018 - 2019

Course name ¹ CONTROLLED ATMOSPHERE					Discipline code 3 IPI			3 IPM	12	
Course type ²	DS	Category ³	DO	Year of study	3	Semester	6		umber of dit points	· 7

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering		L	T	LB	P	IS	
Specialization	Specialization IPM		28	-	14	-		

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

General objective ⁶	Study controlled atmospheres used in heat treatment and thermochemical, as environmental protection and the environment with active components.				
Specific objectives ⁷	Knowledge, analysis, design and efficient used and effective and appropriate use of heat treatments and thermochemical technologies used in machinery industry.				
Course description ⁸	I. Classification and choice of heating media. II. Heat transfer in medium heat. III. Mass transfer. IV. Thermodynamic potential at heating environments. V. Gaseous medium for heating (controlled atmosphere). VI. Liquid medium for heating. VII. Solid medium for heating. VIII. Combinate medium. Heating in fluidized bed. IX. Special medium. Ion nitriding				

Assessment			Sche	dule ⁹	Percentage of the final grade (minimum grade) ¹⁰		
	Class tests along the semester % week Home works 25 %						
A. Final							
assessment Other activities			%	week	75 %		
form ¹¹	1, 2,	nation procedures and conditions: working conditions -, percent %; working conditions -, percent %; working conditions -, percent %	50 % (minimum 5)	week 14	(minimum 5)		
B. Seminar	B. Seminar Activity during seminar						
C. Laboratory	C. Laboratory Activity during laboratory						
D. Project Activity during project					% (minimum 5)		
Course or	Course organizer Lecturer Ph.D. Eng. Carmen NEJNERU						
Teaching ass	Teaching assistants Assist.Ph.D.Eng. Bălţatu Mădălina Simona						

¹Course name from the curriculum

² DF – fundamental, DD – 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