

COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	APPLIED THERMODYNAMICS					Codul disciplinei	4 EPI 11		
Course type ²	DID	Category ³	DI	Year of study	4	Semester	7	Number of credit points	3

Faculty	Material Science and Engineering					Number of teaching and learning hours ⁴					
Field	Mechanical Engineering					Total	L	T	LB	P	IS
Specialization	EPI					42	-	-	-	-	42

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Heat treatments Heat and thermochemical using laser, plasma, electron beam or other unconventional methods used in materials processing to obtain semi
Specific objectives ⁷	Knowledge, analysis, and design effective and appropriate use of technologies and equipment for thermal treatment in mechanical engineering
Course description ⁸	Heat transfer analysis methods, Vacuum heat treatment, Thermal treatment with rapid heating and ultrafast

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester -	week	%
	Activity during tutorials/laboratory works/projects/practical work		25 %
	Assignments -	week	25 %
Final assessment	Final assessment form ¹¹	-	% (minimum 5)
	Examination procedures and conditions:		
	1. - ; tasks - ; working conditions - ; percent %;		
		2. - ; tasks - ; working conditions - ; percent %;	
		3. - ; tasks - ; working conditions - ; percent %;	

Course organizer	Viorel GRANCEA
Teaching assistants	Simona Bălțatu

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