

COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	TECHNIQUES FOR SIMULATION OF THERMO-GAZ-DYNAMICS PROCESSES					Codul disciplinei	5 TAIPM 05			
Course type ²	DS	Category ³	DI	Year of study	1M	Semester	1	Number of credit points	6	

Faculty	Material Science and Engineering					Number of teaching and learning hours ⁴					
Field	Materials Engineering					Total	L	T	LB	P	IS
Specialization	TAIPM					42	14	-	28	-	

Pre-requisites from the curriculum ⁵	Compulsory	-
	Recommended	-

General objective ⁶	Development of profesional and transversal competences in regard to apply numerical techniques to thermal-gaz-dynamics processes										
Specific objectives ⁷	<ul style="list-style-type: none"> - Development of integration capacity of knowledge based in regard to solve some complex technical issues specific to engineering area - Development of innovation capacity due to rapid change in the market - Development of auto-evaluation capacity in regard to successful integration in labor market - Defining concepts, theories and basic methods using CFD techniques - Usage of basic knowledge in numerical simulation of heat and mass transfer processes 										
Course description ⁸	CFD simulation, mesh creation, boundary conditions										

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				50 %
	Assignments -			week	%
Final assessment	Final assessment form ¹¹	colloquium		week 14	50 % (minimum 5)
	Examination procedures and conditions: 1. Subject with open questions ; tasks thematic approach ; working conditions oral; percent 100 %; 2. - ; tasks - ; working conditions -; percent %; 3. - ; tasks - ; working conditions -; percent %;				

Course organizer	prof.dr.habil.ing. Alina Adriana MINEA				
Teaching assistants	sef lucr.dr.ing. Mirabela Minciuna				

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