COURSE GUIDE - short form

Academic year 2018 - 2019

Course name ¹	TECHNIQUES FOR SIMULATION OF THERMO-GAZ-DYNAMICS PROCESSES				Discipline code			1 TAIP 05	M	
Course type ²	DA	Category ³	DI	Year of study	1M	Semester	1		umber of dit points	l 6

Faculty	Material Science and Engineering	rerial Science and Engineering Number of te				eaching and learning hours ⁴				
Field	Materials Engineering		L	T	LB	P	IS			
Specialization	Specialization TAIPM		14	•	28	•	70			

Pre-requisites from the	Compulsory	
curriculum ⁵	Recommended	

General objective ⁶	Development of profesional and transversal competences in regard to apply numerical techniques to thermal-gaz-dynamics processes				
Specific objectives ⁷	 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			Sche	dule ⁹	Percentage of the final grade (minimum grade) ¹⁰		
Class tests along the semester			% week				
	Home	works	%				
A. Final	Other a	activities	10 %	week 14	50.0/		
assessment form ¹¹ colloquium	1. Su conditi 2,	nation procedures and conditions: bject with open questions, working ons oral, percent 100 %; working conditions -, percent %; working conditions -, percent %	90 % (minimum 5)	week 14	50 % (minimum 5)		
B. Seminar Activity during seminar					% (minimum 5)		
C. Laboratory Activity during laboratory					50 % (minimum 5)		
D. Project Activity during project				% (minimum 5)			
Course organizer prof.dr.habil.ing. Alina Adriana MINEA							
Teaching assistants prof.dr.habil.ing. Alina Adriana MINEA							

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