C O U R S E G U I D E – s h o r t f o r m

Academic year 2021 - 2022

Course name[1]	Simulation and experiment in the analysis of stresses and strains (2)					Course code		MATAE IA 201	
Course type[2]	DS	Category[3]	DI	Year of study	II	Semester	3	Number of credit points	5

Faculty	**Faculty of Materials Science and Engineering**	Number of teaching and learning hours[4]					
Field	**Materials engineering**	Total	L	T	LB	P	IS
Specialization	MATAE	125	14		14		70

Pre-requisites from the curriculum[5]	Compulsory	Simulation and experiment in the analysis of stresses and strains (1)
	Recommended	

General objective [6]	Presenting, through finite element analysis, the mechanical characteristics measuring technique by tensiometry.
Specific objectives[7]	• Acquiring the skills in order to determine mechanical values within forming processes on advanced materials.
Course description[8]	General methods of the finite element analysis (equilibrium model, strain and stress evaluation, etc.). Measuring mechanical characteristics by mean of tensometry.

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form [11]: Exam	Class tests along the semester	20%	W6;W12	50% (minimum 5)
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: 1. Theoretical close ended questions, orally: 30%; 2. Solving a simulation problem, practically: 70%.	80% (mini-mum 5)		
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Acttvity during laboratory			50% (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	Associate Professor Eng. Stefan Lucian TOMA	
Teaching assistants	Assistant Professor Eng.. Alin Marian CAZAC	

[1]Course 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