

COURSE GUIDE – short form

Academic year 2017-2018

Course name ¹	Simulation and experiment applied to stresses and strains analysis(1)					Course code	5 MATAE DI06		
Course type ²	DID	Category ³	DI	Year of study	I	Semester	2	Number of credit points	6

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				42	28		14		

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	Introducing the appropriate mathematical instruments in order to define stress and strain state generated during forming
Specific objectives ⁷	<ul style="list-style-type: none"> Give of the needed data related to model the forming processes of the advanced materials.
Course description ⁸	Stress field, strain field, link between those into advanced materials forming process. Forming of the advanced materials. Basic concepts related to finite element analysis.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester		
	Activity during tutorials/laboratory works/projects/practical work		40 %
	Assignments	1	10 %
Final assessment	Final assessment form ¹¹	colloquium	14
	Examination procedures and conditions: 1. Theoretical close ended questions, orally: 50%; 2. Solving a simulation problem, practically: 50%		50 %

Course organizer	Ş.I.dr.ing. Lohan Nicoleta-Monica	
Teaching assistants	Asist.univ.dr.ing. Cazac Alin-Marian	

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