

COURSE GUIDE – short form

Academic year 2021-2022

Course name ¹	Simulation and experiment applied to stresses and strains analysis (1)					Course code	MATAE IA 109		
Course type ²	DID	Category ³	DS	Year of study	I	Semester	2	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	42	28		14		83

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.

Assesment		Schedule ⁹	Percentage in the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	10%	60% (minimum 5)
	Home works	%	
	Other activities	%	
Exam / Colloquium	Colloquium	50% (minimum 5)	Session
B. Seminar	Activity during seminar		% (minimum 5)
C. Laboratory	Activity during laboratory		40% (minimum 5)
D. Project	Activity during project		% (minimum 5)

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

¹Course name from the curriculum

²DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴Points 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)

⁵According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶According to 7.1 from the Course guide – extended form

⁷According to 7.2 from the Course guide – extended form

⁸Short description of the course, according to point 8 from the Course guide – extended form

⁹For 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