

COURSE GUIDE – short form

Academic year 2024 - 2025

Course name ¹	SIMULATION IN THE THEORY OF ELASTICITY AND PLASTICITY					Discipline code		3 EPI 14 DS-2	
Course type ²	DS	Category ³	DO	Year of study	3	Semester	6	Number of credit points	3

Faculty	Material Science and Engineering					Number of teaching and learning hours ⁴					
Field	Mechanical Engineering					Total	L	T	LB	P	IS
Specialization	Equipment for Industrial Processes					75	28		14		33

Pre-requisites from the curriculum ⁵	Compulsory	Physics 1, Physics 2, Resistance of Materials.									
	Recommended										

General objective ⁶	Adaptation of the calculation methods used in civil, industrial and agricultural constructions to their characteristics.										
Specific objectives ⁷	Understanding the formulations in displacements and tensions for solving problems of Elasticity Theory.										
Course description ⁸	The acquired skills will be required for employees working in the design firms.										

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ Colloquium	Homework	20 %		80 % (minimum 5)
	Oral examination	80 %	week 14	
C. Laboratory	Activity during laboratory			20 % (minimum 5)
Course organizer	Lecturer Ph.D. eng. Viorel GRANCEA			
Teaching assistants	Lecturer Ph.D. eng. Viorel GRANCEA			

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