COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	PLASTICITY AND BREAKING THEORY OF MATERIALS (1)				Discipline code			3 SM 02		
Course type ²	DD	Category ³	DI	Year of study	3	Semester	5		umber of dit points	/

Faculty	Material Science and Engineering Number of teaching and lea hours ⁴					learni	arning	
Field	Materials Engineering		L	Т	LB	Р	IS	
Specialization	on SM		28	-	28	-	44	

Pre-requisites from the	Compulsory	
curriculum ⁵	Recommended	

General objective ⁶	Knowledge of theoretical bases of plastic deformation and breaking of materials				
Specific objectives ⁷	Design capacity of metallic materials, the concepts, basic theories and methods, the use of basic knowledge in the design of metallic materials, proper use of standard assessment criteria and methods to assess the quality of the design of metallic materials, creative approach to the activities related to the design metallic materials				
Course description ⁸	Behaviour of metallic materials at the plastic deformation, main effects of plastic deformation (cold-hardening, texturing, residual stresses, thermal effect, properties changes), plasticity, strength of deformation, laws of plastic deformation				

Assessment			Sche	dule ⁹	Percentage of the final grade (minimum grade) ¹⁰		
	Class t	ests along the semester: 1	20 %	week 8			
	Home	works	%				
A. Final assessment form ¹¹ exam	Other a	activities	%	week	80 %		
	1. Su conditi 2, ^v	hation procedures and conditions: bject with closed questions, working ons written, percent 100 %; working conditions -, percent %; working conditions -, percent %	80 % (minimum 5)	exam period	(minimum 5)		
B. Seminar	% (minimum 5)						
C. Laboratory	20 % (minimum 5)						
D. Project	% (minimum 5)						
Course or							
Teaching assistants Lecturer, Ph.D., Eng. Cătălin-Andrei ȚUGUI							

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, Pproject, 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