COURSE GUIDE - short form

Academic year 2021 - 2022

Course name ¹	PLASTICITY AND BREAKING THEORY OF MATERIALS (2)				Discipline code			3 IPM 0)6	
Course type ²	DD	Category ³	DI	Year of study	3	Semester	6		fumber of dit points	3

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴			ng		
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	IPM	75	28	•	14	-	33

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	Processing theory by rolling, forging, die forging, extrusion, drawing and wire drawing, unconventional technologies of processing by plastic deformation; Elements related to the causes of rupture, fracture mechanics, ductile-brittle transition of rupture, breaking strength, methods of solving fracture mechanics problems.				

Assessment		Schedule ⁹		Percentage of the final grade (minimum grade) ¹⁰			
	Class tests along the semester 20 % week 9						
	Home	works	%				
A. Final	Other a	activities	%	week	80 %		
assessment form 11 exam	1. Su conditi 2,	nation procedures and conditions: bject with closed questions, working ons computer, percent 100 %; working conditions -, percent %; working conditions -, percent %	80 % (minimum 5)	exam period	(minimum 5)		
B. Seminar Activity during seminar					% (minimum 5)		
C. Laboratory Activity during laboratory					20 % (minimum 5)		
D. Project Activity during project					% (minimum 5)		
Course organizer Professor, Ph.D., Eng. Dorin LUCA							
Teaching assistants Lecturer, Ph.D., Eng. Cătălin-Andrei ŢUGUI							

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