C O U R S E G U I D E – s h o r t f o r m

Academic year 2021 - 2022

Course name[1]	**PLASTICITY AND BREAKING THEORY OF MATERIALS (1)**					Discipline code		**3 IPM 02**	
Course type[2]	**DD**	Category[3]	**DI**	Year of study	3	Semester	**5**	Number of credit points	**4**

Faculty	Material Science and Engineering	Number of teaching and learning hours[4]					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	IPM	**100**	**28**	**-**	**28**	**-**	**44**

Pre-requisites from the curriculum[5]	Compulsory	
	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
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, thermal regime of plastic deformation

Assessment		Schedule[9]		Percentage of the final grade (minimum grade)[10]
A. Final assessment form [11] exam	Class tests along the semester	20 %	week **9**	80 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with closed questions, working conditions computer, percent 100 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	80 % (minimum 5)	exam perio	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Acttvity 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 ȚUGUI**			

[1]Course 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