COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	PROPERTIES of MATERIALS 2				Course co	ode	4.SM.08.DD		
Course type ²	DS	Category ³	DI	Year of study	4	Semester	8	Number of credit points	3

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	Specialization Materials Science		28	-	28	-	19

	Compulsory	Properties and Materials Choice (1)						
Pre-requisites from the curriculum ⁵	Recommended	Physical Metallurgy, Metallic Materials Science and Engineering, Welding Metallurgy, Materials Strength, Machine Elements, Mechanics, Mathematical Analysis, Technical Drawing.						

General objective ⁶	Evaluation and optimal solution of technical problems related to materials characterisation by applying concepts, theories and experimental methods.
Specific objectives ⁷	Knowing the properties of materials, focusing on metallic materials.
Course description ⁸	Mechanical properties: static and dynamic properties and details concerning the methods of determination; technological properties (cutting, hardenability, weldability, hot and cold deformability). Elements of materials choice: classic method, matriceal methods, Ashby's method.

	Assesment		Sche- dule ⁹	Percentage in the final grade (minimum grade) ¹⁰
	Class tests along the semester	%		
A. Final	Home works	%		
assessment	Other activities	%		
form ¹¹ :	Examination procedures and conditions: Probe 1: closed question; oral examination; 50% Probe 2: closed question; oral examination; 50%.	100% (minimum 5)	week 14	50% (minimum 5)
B. Seminar				
C. Laboratory	,	50% (minimum 5)		

Course organizer	Assoc. Prof. Ph.D. Eng. Gheorghe BĂDĂRĂU	
Teaching assistants	Teach.Assist.Ph.D. Eng. Elena Ionela CHERECHEŞ	

¹Course name from the curriculum

 $^{^{2}}$ DF – fundamental, DID – 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