COURSE GUIDE - short form

Academic year 2021-2022

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

Faculty	Materials Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	Т	LB	Р	IS
Specialization	Materials Science	100	28	14	14		44

	Compulsory	Properties and Materials Choice (1)
Pre-requisites from the curriculum ⁵		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)	Exam period	50% (minimum 5)	
B. Seminar	Activity during seminar – open questions - oral			25% (minimum 5)	
C. Laboratory	Activity during laboratory – open and closed questions - oral, demonstration			25% (minimum 5)	

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

 $^1\!\!$ Course name from the curriculum 2 DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

Formular TUIASI.POB.04-F2, rev.0

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)

According to 4.1 – Pre-requisites - from the Course guide – extended form
According to 7.1 from the Course guide – extended form
According to 7.2 from the Course guide – extended form

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