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]	PROPERTIES of MATERIALS 1					Course code		4.SM.02.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	T	LB	P	IS
Specialization	Materials Science	100	28	14	14	-	44

Pre-requisites from the curriculum[5]	Compulsory	-
	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]	Clasification of properties; Elements of structural theory of materials properties; Physical properties; (density, electrical, thermal, magnetic properties, supraconductibility, combined physical effects); chemichal properties (electrode potential, corrosion mechanisms and protection against corrosion).

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

[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