

COURSE GUIDE – short form

Academic year 2021-2022

Course name	Materials science and engineering (1)					Course code	1SM06DD			
Course type	DD	Category	DI	Year of study	1	Semester	1	Number of credit points	4	

Faculty	Materials Science and Engineering	Number of teaching and learning hours					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	Materials Science	42	28		14		28

Pre-requisites from the curriculum	Compulsory	
	Recommended	

General objective	Formation of the ability of applying some principles and basic methods for solving well defined situations in the field under qualified assistance supervision in view of formation of an essential stock of technical knowledge in the field of materials science and engineering.
Specific objectives	Use of knowledge and ability formation in applying basic elements, general and introductory, focussing on structure, properties, methods of analysis and general processing procedures.
Course description	Introduction. Atomic and molecular materials structure. Notions regarding material properties. Methods of structural analysis and nondestructive control of metallic materials. Notions regarding metallic materials processing.

Assessment		Schedule	Percentage in the final grade (minimum grade)
A. Final assessment form: Exam	Class tests along the semester	%	70% (minimum 5)
	Home works	%	
	Other activities	%	
	Examination procedures and conditions: 1. Category: theoretical; subject with open questions; conditions: oral; weight in final grade: 20%; 2. Category: theoretical; subject with open questions; conditions: oral; weight in final grade: 20%; 3. Category: theoretical; solving problem; conditions: oral; weight in final grade: 30%; 4. Category: theoretical; solving problem; conditions: oral; weight in final grade: 30%.	100% (minimum 5)	
B. Seminar	Activity during seminar		% (minimum 5)
C. Laboratory	Activity during laboratory		30% (minimum 5)
D. Project	Activity during project		% (minimum 5)

Course organizer	Associate professor PH.D. eng. Ioan RUSU	
Teaching assistants	Lecturer PH.D. eng. Monica Nicoleta LOHAN	
	Lecturer PH.D. eng. Oana RUSU	
	Assist. PH.D. eng. Diana Petronela BURDUHOS-NERGIS	
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