COURSE GUIDE - short form

Academic year 2021-2022

Course name	Materials science and engineering (1)			Course	Course code		1IPM06DD		
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	Т	LB	Р	IS
Specialization	Engineering of Materials Processing	42	28		14		28

Pre-requisites from	Compulsory	
the curriculum	Recommended	

1	,
General objective	Making calculations, demonstrations and applications for solving materials engineering specific tasks based on knowledge in the field of materials science and engineering and other fundamental sciences and related to existing correlations between composition, structure, properties and uses of metallic materials.
Specific objectives	Recognition of materials using their properties and different methods of investigation. Materials selection depending on the application. Investigation of materials characteristics and properties. Developing skills for elaborating specific reports and scientific articles.
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			Sche- dule	Percentage in the final grade (minimum grade)
	Class tests along the semester	%		
	Home works	%		
	ther activities %			
A. Final assessment form: Exam	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)	Sesion	70% (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	
	Assist. PH.D. eng. Mihai POPA	