COURSE GUIDE - short form

Academic year 2018-2019

Course name	Materials science and engineering (1)				Course	le 1IPM06D	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 the curriculum	Compulsory	
	Recommended	

General	Making calculations, demonstrations and applications for solving materials engineering specific tasks based on knowledge in the field of materials science and engineering and				
objective	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	%		
	Other 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	50% (minimum 5)
B. Seminar Activity during seminar			% (minimum 5)	
C. Laboratory Activity during laboratory				50% (minimum 5)
D. Project Activity during project			% (minimum 5)	

Course organizer	Associate professor PH.D. eng. loan RUSU	
Tooching assistants	Associate professor PH.D. eng. Maria BACIU	
Teaching assistants	Lecturer PH.D. eng. Monica Nicoleta LOHAN	