## COURSE GUIDE - short form

Academic year 2017-2018

Course name	Metallic materials science and engineering (1)				Course	de 1IPM06D	1IPM06DID		
Course type	DID	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	S	
Specialization Engineering of Materials Processing		42	28		14			

Pre-requisites from the	Compulsory	
curriculum	Recommended	

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			Schedule	Percentage of the final grade (minimum grade)
	Class tests along the semester	Week 7	10%	
Continuous assessment	Activity during tutorials/laboratoworks/projects/practical work		40%	
	Assignments			-
	Final assessment form	Examination		
Final assessment	Examination procedures and conditions:  1. Category: theoretical; subject with open questions; conditions: oral; weight in final grade: 20%;  2. Category: theoretical; solving problem; conditions: oral; weight in final grade: 40%;  3. Category: theoretical; solving problem; conditions: oral; weight in final grade: 40%.			50%

Course organizer	Associate professor PH.D. eng. Ioan RUSU	
Teaching assistants	Associate professor PH.D. eng. Maria BACIU	