COURSE GUIDE – short form

Academic year 2017-2018

Course name	Metallic materials science and engineering (1)				Course	1ISI06DID			
Course type	DID	Category	DI	Year of study	1	Semester	1	Number of credit points	4

Faculty	Materials Science and Engineering Number of t		teaching and learning hours				
Field Industrial Engineering		Total	L	Т	LB	Р	IS
Specialization Industrial safety engineering		42	28		14		

Pre-requisites from the curriculum	Compulsory	
	Recommended	

General objective	Making calculations, demonstrations and applications for solving industrial engineering specific tasks based on knowledge in the field of materials science and engineering 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. Material properties. Methods of structural analysis and nondestructive control of metallic materials. 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/laborate works/projects/practical work		40%	
	Assignments			-
	Final assessment form	Examination		
Final assessment	 Examination procedures and constraints Category: theoretical; so conditions: oral; weight in final Category: theoretical; solve weight in final grade: 40%; Category: theoretical; solve weight in final grade: 40%. 	50%		

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