COURSE GUIDE - short form

Academic year 2018-2019

Course name	PHYSICAL CHEMISTRY (1)				Course	le 2SM02D	2SM02DID		
Course type	DID	Category	DI	Year of study	2	Semester	3	Number of credit points	4

Faculty	Faculty Materials Science and Engineering			Number of teaching and learning hours					
Field	Materials Engineering	Total		Т	LB	Р	S		
Specialization Materials Science		42	28		14		28		

Pre-requisites from the curriculum	Compulsory	
	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 metal alloys systems properties analysis and explanation/interpretation of some physical phenomena in materials science and engineering field by means of thermodynamic methods.				
Specific objectives	Hetanijening connections between the microscopic and macroscopic broberties of ildilig				
Course descriptio	Fundamentals of thermodynamics. Thermodynamic potentials method. Thermodynamic functions of monocomponent system. General conditions of thermodynamic equilibrium. Equilibrium in homogeneous thermodynamic systems. Equilibrium in heterogeneous thermodynamic systems. Partial thermodynamic functions. Ideal and real solutions. Quasi-chemical theory of solutions. Thermodynamic functions of binary heterogeneous alloys.				

	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 closed 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%.	100% (minimum 5)	Sesion	50% (minimum 5)
B. Seminar	% (minimum 5)			
C. Laboratory	50% (minimum 5)			
D. Project Activity during project				% (minimum 5)

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