COURSE GUIDE - short form

Academic year 2021-2022

Course name ¹ PHYSICAL CHEMISTRY (1) Course code 2 IMAT (AT 02	2			
Course type ²		DD	Category ³		Year of st	study 2					Number of credit points		4
								or our p	onno				
Facul	ty Faculty	y of Ma	terials Scie	nce and	Engineering	Nu	mbe	r of te	eachin	g an	d learnir	ıg ho	urs ⁴
Fie	als Engineering				Total L ⁻			Т	LB	Р	IS		
Specializatio	als Engineering				100 28			14-	-	58-			
Pre-requisites	from the	m the Compulsory									1		
curriculu		Recommended											
General objective ⁶													
Specific objectives ⁷	• Obtaining information about the state of equilibrium and the properties of materials in different conditions of temperature and pressure. Establishing connections between the							the					
Course description ⁸	 I. Fundamental notions of thermodynamics. Ii. Thermodynamic potentials method Iii. Thermodynamic functions of one - component systems. Iv. General conditions for thermodynamic equilibrium. V. Thermodynamic equilibrium in homogeneous systems. Vi. Thermodynamic equilibrium in heterogeneous systems. Partial thermodynamic functions. Viii. Ideal and real solutions. Ix. The quasi-chemical theory of solutions. X. Thermodynamic functions of heterogeneous binary alloys. 												
			Assesme	ent					Sch dul		Percer the fina (min grad		เde า
A. Final assessment form ¹¹ : Colloquium			ng the sem	ester			%						
	Home works						%				-		
	Other activities Examination procedures and conditions:						%				- 60% (minimu		um
	One subject in the course topics; oral						0%				5)		
	presentation and answers to course (mini- mum 5)												
B. Seminar	specialty questions. man of Activity during seminar								% (minimum 5)				
B. Seminal Activity during seminal								40 % (minimum 5)					
C. Laboratory Activity during laboratory								5)					
D. Project Activity during project							% (minimum 5)						

Course organizer	Lecturer Dr.Eng. Ramona Cimpoeşu	
Teaching assistants	Lecturer Dr.Eng. Ramona Cimpoeşu	

¹Course name from the curriculum ² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum) ³ DI – imposed, DO –optional, DL – facultative (from the curriculum) ⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, Pproject, IS-individual study)

⁶ According to 4.1 – Pre-requisites - from the Course guide – extended form ⁶ According to 7.1 from the Course guide – extended form ⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form ⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages ¹¹ Exam or colloquium