

Palestine Technical University-Kadoorie Course Syllabus



Faculty:			
Course Title:	Physical Chemistry(I)	Course Number:	15050241
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Year:	2015/2016	Semester:	Second
			semester
Department:	Chemistry	Designation:	
Prerequisite(s):	Chem. 15050102, Differential equations	-	•
Instructor:	Dr. Lamees Z. Majjad		
Instructor's e-mail:	lameesmajjad@yahoo.com		
Office Hours:	10-11 sun, tues, thur.+ 12:30-2 mon, wed.		
Class Time:	9-10 sun, tues, thur	Class Room:	536
Course description:	This course is designed to give the student basic ideas related to chemical thermodynamics which include the states of gases and gas laws, molecular interactions, real gases and equations of states for real behavior, first law, state functions and exact functions, the second law and third law and their applications, phase diagrams and phase transitions, thermodynamic description of mixtures, properties of solutions, colligative properties, phase diagrams of binary systems and		
Textbook(s):	activities. Physical Chemistry, 8 th edition By Atkins and De Paoula.		
Other required material (References): Course objectives:	 On successful completion of this course the student will be able to 1. Get familiar with the general concepts and applications of thermodynamics. 2. Undertake and solve some problems related to chemical thermodynamics. 3. Mastering library, online search and web literature. 		
Topics coveredand			
Calendar:	Topics		Weeks or number of hours
	<u>Chapter 1</u> : The properties of gases.		1- 2
	Chapter 2: The First Law:		3-6
	First Hr Exam		
	<u>Chapter 3</u> : The Second Law		7- 9
	<u>Chapter 4</u> : Physical transformation of pure s Second Hour Exam	substances.	10- 11
	Chapter 5: Simple Mixtures		12- 13
	Chapter 6: Phase Diagram		14- 15
	Final Exam		16
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Grading Plan:	First Exam (25 Points) Second Exam (25 Points) Semester works (10 Points) Final Exam (40 Points) Will be announced by the registrar		
General Notes:	1-University regulation Regarding absentees will be		
Class Policies	2-Names will be read at the beginning of the clas	s and anyone coming	after that will be

marked absent 3- All mobiles must be switched off during class		
Prepared by: Dr. Lamees Z. Majjad	Date: 15 February 2016	