Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

بسم الله الرحمن الرحيم

University: University of Baghdad
College: College of Science for Women
Department: Department of chemistry
Stage: Secand year
Lecturer name: Sura Khaleel Ibrahim
Qualification: MSc. in physical chemistry
Place of work: College of Science for Women

Syllabus Form

Course Instructor	Sura Khaleel Ibrahim				
E-mail	Sura.khalil71@yahoo.com				
Title	"Physical Chemistry"				
Course Coordinator	Solution: 2nd year,				
Course Objective	The quantitative treatment of chemical equilibrium, and equilibrium between different phases. This provides the basis for the quantitative treatment of distillation and the interpretation of phase in mixtures of solids. Then thermodynamics is applied to chemical cells and biochemical reactions.				
Course Description	Solution: Concerned with equilibrium states of matter and has nothing to do with time.				
Textbook	1-Atkins, P., and J. de Paula. Physical Chemistry. New York, NY: W.H. Freeman and Company, 2009 2-Silbey, R., R. Alberty, and M. Bawendi. Physical Chemistry. New York, NY: John Wiley & Sons, 2004				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (20%)	As (15%)	As (5%)	---------	As (60%)
General Notes					

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Course Weekly Outline

1	22/2/2016	Standard molar Gibbs energies	Determination the liquid viscosity coefficient at varying temperature degree	
2	29/2/2016	Combining the first and second law	Determination the relative molecular weight of polystyrene	
3	7/3/2016	Chemical Potential	Determination chart developed for the system ethanol-benzene-water	
4	14/3/2016	1ST exam	Determination the solute distribution coefficient	
5	28/3/2016	Chemical equilibrium	Adsorption solutions on solid surfaces	
6	4/4/2016	Phase Equilibrium	Change the viability of miscible fluids with temperature	
7	11/4/2016	Phase - one component		
8	18/4/2016	Phase diagrams - two components and three components		
9	25/4/2016	Clausius-clapeyron equation		
10	2/5/2016	2nd exam		
11	9/5/2016	Ideal solutions		

12	16/5/2016	Non-ideal solutions		
13	23/5/2016	Colligative properties		
14	30/5/2016	3rd exam		

INSTRUCTOR Signature: **Dean Signature:**