

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq
The Ministry Of Higher
Education
& Scientific Research



University: University of Baghdad
College: College of Science for
Women
Department: Department of
chemistry
Lecturer name: Dr. Souad Abd Mousa
Qualification: PhD in physical
chemistry
Place of work: College of Science for
Women

Syllabus Form

Instructor Name	Dr. Souad Abd Mousa				
E-mail	Souadabdmousa@yahoo.com				
Course Title	Chemical kinetics , 3 rd year, physical chemistry				
Course Coordinator					
Course Objectives	Chemical kinetics is the study of rates of chemical processes.				
Course Description	Chemical kinetics is the study and discussion of chemical reaction and describe factors that influence rate of chemical reaction				
Textbook	Chemical Kinetics , K.J.Laidler, second edition, McGraw.Hill, Inc. USA				
References	Atkins,P., J.de paula. Physical chemistry, New York, Ny: John Wiley & Sons, 2004				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(35%)	As(15%)	As(10%)	-	As(40%)
General Notes	Type here general notes regarding the course				

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1	29/9/2015	The kinetic Molecular theory	investigate the reaction between acetone and iodine	
2	6/10/2015	The kinetic Molecular theory	study the kinetics of hydrolysis of methyl acetate, catalyzed by hydrochloric acid	
3	13/10/2015	Holiday	study of kinetics of the iodination of cyclohexanon	
4	20/10/2015	The kinetic Molecular theory	Exam	
5	27/10/2015	Molecular collision	Determinate rate constant of decomposition of benzene diazonium chloride	
6	3/11/2015	Collision of molecules on surfaces and distribution law	Determine the rate constant of the hydrolysis of ethyl acetate by sodium hydroxide.	
7	10/11/2015	First exam	Determine the rate constant of the hydrolysis of ethyl acetate by sodium hydroxide (different concentration)	
8	17/11/2015	Measurement of reaction rates	Exam	
9	24/11/2015	Rate of reaction, Order of reaction	Determine the rate constant of flow rate.	
10	1/12/2015	Arrhenius Equation	Study the effect of neutral salt on the rate constant of reaction.	
11	8/12/2015	Reaction mechanisms	Heterogeneous catalytic reaction	
12	15/12/2015	Complex reactions	Exam	

13	22/12/2015	Second exam		
14	29/12/2015	Catalysts		
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Half – year break				
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Instructor Signature:

Dean Signature: