



Course Weekly Outline

Course Instructor	Falah Shareef Abed				
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Title	Analytical chemistry				
Course Coordinator	First semester				
Course Objective	: To provide students with a sound theoretical back ground in chemical principles that is essential to practice chemical analysis. It enables students to understand the importance of judging the accuracy and precision of experimental data and techniques of quantitative analysis, and also to show that theory frequently serves as a useful guide to the solution of analytical problems.				
Course Description	Review of elementary concept, gravimetric analysis, volumetric methods of analysis:, Calculation of pH, oxidation-reduction, Spectrophotometric analysis				
Textbook	<i>Fundamentals of Analytical Chemistry by Skoog and West.</i>				
References	wikipedia				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (25%)	As (15%)	As (10%)	----	As (50%)
General Notes					



Course weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	16-11	Review of elementary concept important to analytical chemistry		
2	18-11	concentration units.		
3	23-11	The evaluation of analytical data: Definition of terms		
4	25-11	An introduction to gravimetric analysis;; gravimetric factor.		
5	30-11	: The scope of applications of gravimetric analysis: Inorganic precipitating agents		
6	2-12	. organic precipitating agents.		
7	7-12	An introduction to volumetric methods of analysis:		
8	9-12	; Volumetric calculations;		
9	14-12	Buffer solutions: Theory of neutralization titrations of simple system.		
10	16-12	Theory of neutralization titrations of complex system;		
11	21-12	Calculation of pH in complex system;		
12	23-12	Volumetric methods based on complex system.		
13	28-12	Equilibria in oxidation-reduction system		
14	30-12	; theory of oxidation-reduction titrations.		
15	4-1	Spectrophotometric analysis:		
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Half-year Break				
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Instructor Signature:

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