

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  
Stage: 2nd Stage  
Lecturer name: Mahmoud abdel  
rahman kalaf  
Qualification: Dr.  
Place of work: College of Science for  
Women

## Syllabus Form

Instructor Name	Dr. SUAD SALMAN MOHAMOOD				
E-mail	Salman . suad @ yahoo.com				
Course Title	Gravimetric Methods of Analysis				
Course Coordinator					
Course Objectives	A major objective of this text to provide a rigorous back ground in those gravimetric analysis principles that are particularly important to analytical chemistry .  Asecond goal is to develop an appreciation for the difficult task				
Course Description	The material in this text covers both fundamental principles of gravimetric analysis and their applications in chemical analysis and calculated fields followed up with principle of chemometric				
Textbook	D.A. Skoog , D.A. west , F.J Holles and S.R . crouch , fundamental of analytical chemistry Thomsom learning inc , 4 <sup>th</sup> Ed USA , 2004				
References	D.A skoog D.A west F.J . holler and S.R crouch an introduction Saunders 7 <sup>th</sup> Ed .2000				
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	28/9/2015	Gravimetric methods of analysis calculations and gravimetric factor problems and exercises	Determination of water of hydration in crystallized Barium Chloride $BaCl_2 \cdot xH_2O$	
2	5/10/2015			
3	12/10/2015	Properties of precipitates Mechanism of precipitate	Determination of calcium as calcium oxalate $CaC_2O_4 \cdot H_2O$	
4	19/10/2015	Peprization of colloidal precipitates	Determination of sulphate as barium sulphate	
5	26/10/2015			
6	2/11/2015	Crystalline precipitates	Determination of iron as iron (II) oxide	
7	9/11/2015	Precipitation from homogeneous solutions		
8	16/11/2015	Digestion drying and ignition of the precipitate	Determination of iron and aluminum in their mixture by precipitation method	
9	23/11/2015	Advantages and disadvantages of gravimetric methods		
10	30/11/2015			
11	7/12/2015	Types of the precipitating reagents		

12	14/12/2015	Chemical statistics	Determination of the capacity of an cation exchange resin	
13	21/12/2015			
14	28/12/2015			
15	4/1/2016	Examination	Estimation of total cations in the water	
<b>Half – year break</b>				
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**Instructor Signature:**

**Dean Signature:**