

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



بسم الله الرحمن الرحيم

University: Diyala
College: Engineering
Department: Chemical Engineering
Stage: 2nd
Lecturer name: Ali Alwan Hasan
Qualification: M.Sc. Chemical Eng.
Place of work: Chemical Eng, Dept.

Flow up of implementation celli pass play

Course Instructor	Ali Alwan Hasan				
E-mail					
Title	Analytical Chemistry				
Course Coordinator	Annually				
Course Objective	This subject is used to teach students the chemical analysis processes in Chemical Engineering from practical side view.				
Course Description	Chemical analysis process as described below:				
Textbook	Modern Analytical Chemistry , David Harvey , 2000				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(30%)	As(10%)	As(10%)	-	As(50%)
General Notes	2 hrs theoretical and 2 hrs practical				

Course Weekly Outline

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	21/9/2014	Introduction to Analytical Chemistry		
2	28/9/2014	Stoichiometric calculations		
3	5/10/2014	Chemical coefficient		
4	12/10/2014	Molarities		
5	19/10/2014	Normality		
6	26/10/2014	Titration		
7	2/11/2014	Density		
8	9/11/2014	Equilibrium in the acids		
9	16/11/2014	Equilibrium in the bases		
10	23/11/2014	pH		
11	30/11/2014	Graphs of titration		
12	7/12/2014	Indicators of bases		
13	14/12/2014	Indicators of acids		
14	21/12/2014	Equilibrium in precipitation		
15	28/12/2014 - 4/1/2015	Solubility		
16				
Half – year break				
17	10-26/2/2015	Partial precipitation		
18	1-12/3/2015	Analysis using oxidation		
19	10-26/3/2015	Electromotive force		
20	29/3/2015 - 9/4/2015	Use of the half-cell potentials		
21	12-23/4/2015	Nernst equation		
22	26/4/2015 - 7/5/2015	Measure of concentration by potential of the cell		
23	10-28/5/2015	Selected inorganic materials		
24	31/5/2015 - 4/6/2015	Inorganic reactions		
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INSTRUCTOR Signature: A. A. H.

Dean Signature: