



Course Weekly Outline

Course Instructor	May Essa Mahmood				
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Title	Physical pharmacy				
Course Coordinator	duha Mohamed rudha				
Course Objective	The understand the relation between physical chemistry with pharmaceutical effects .				
Course Description	The course involve introduction .state of matter ,solution of non electrolyte ,solution of electrolyte ,ionic equilibrium & buffer and isotonic solution .				
Textbook	Physical pharmacy . Alfred Martin, 4 th ed ,1993 .				
References	1.Physical chemistry by Walter J. Moore ,5 th ed ,1978. 2.Applied physical pharmy by Amiji ji 3.Essential physical pharmacy by Boddu 4.physical chemistry by atkin ,2000 .				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As (30%)	As (10%)	As (10%)	----	As (50%)
General Notes	1. Needs more time (i.e another term) to cover all the information . 2. Needs the related apparatus .				



Course weekly Outline

Week	Date	Topics Covered	Lab. Experiment assignments	Notes
1	4-10-2014	Introduction	Statistical method & errors	
2	11-10-2014	State of matter	Solvent combination	
3	18-10-2014	Phase equilibrium & phase rule	Three component system	
4	25-10-2014	Thermodynamics & Energy function	Solubility of diethylbarbetic acid	
5	1-11-2014	Free Energy function & applications	Unknown	
6	8-11-2014	Solution of non-electrolyte	Siminar of aerosol formation & liquid crystalline	
7	15-11-2014	Colligative properties	Thermochemistry	
8	22-11-2014	Electrometric determination	Integral heat	
9	29-11-2014	Solution of electrolytes	Depression in freezing point	
10	6-12-2014	Arrhenius theory	Elevation in boiling point	
11	13-12-2014	Ionic strength	Unknown	
12	20-12-2014	Molecular weight determination	Adsorption isotherm	
13	27-12-2014	Activities	Isotonic solution	
14	3-1-2015	Ionic equilibrium	unknown	
15	10-1-2015	Buffer & isotonic solution		
16	17-1-2015	Pharmaceutical buffers		
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Instructor Signature:

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