## Republic of Iraq The Ministry of Higher Education & Scientific Research



University:Kufa College:Pharmacy Department:Pharmacutical chemistry Stage: second

Lecturer name:Falah Shareef Abed Academic Status:Assist. prof.

**Qualification:Phd** 

Place of work:college of Pharmacy

## **Course Weekly Outline**

<b>Course Instructor</b>	Falah Shareef Abed						
E_mail	Falah.abed@uokufa.edu.iq						
Title	Physical pharmacy						
<b>Course Coordinator</b>	First semester						
Course Objective	: To understand the application of quantitative and theoretical principles of the physical characters of matter in the practice of pharmacy. It aids the pharmacists in their attempt to predict the solubility, compatibility and biological activity of drug products						
<b>Course Description</b>	States of matter, Thermodynamics, Solutions of non-electrolytes, Solution of electrolytes, Ionic equilibria,, Buffered and isotonic solutions						
Textbook	Physical Pharmacy by Alfred Martin et al						
References	wikipidia						
Course Aggaggment	Term Tests	Laboratory	Quizzes	Project	Final Exam		
<b>Course Assessment</b>	As (25%)	As (15%)	As (10%)		As (50%)		
<b>General Notes</b>							

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Topics Covered   Lab. Experiment   Assignments	wool	Topics Covered Leb Evreniment Notes							
2   3   4   4   5   5   6   6   7   7   8   25-11   Solutions of non-electrolytes, properties   9   30-11   , properties, ideal and real   10   2-12   colligative properties   11   7-12   molecular weight determination   12   9-12   Solution of electrolytes, properties   13   14-12   Arrhenius theory of dissociation,   14   16-12   ionic strength   15   21-12   Debye-Huchle theory,   16   23-12   coefficients for expressing colligative properties   Half-year Break   17   18   19   20   21   22   23   24   25   26   27   28   29   30   30	week	Date	Topics Covered	Lab. Experiment Assignments	Notes				
3	1								
4	2								
S	3								
6 7 8 25-11 Solutions of non-electrolytes, properties 9 30-11 , properties, ideal and real 10 2-12	4								
7   8   25-11   Solutions of non-electrolytes, properties   9   30-11   , properties, ideal and real   10   2-12   colligative properties   11   7-12   molecular weight determination   12   9-12   Solution of electrolytes, properties   13   14-12   Arrhenius theory of dissociation,   14   16-12   ionic strength   15   21-12   Debye-Huchle theory,   16   23-12   coefficients for expressing colligative properties	5								
8         25-11         Solutions of non-electrolytes, properties           9         30-11         , properties, ideal and real           10         2-12         colligative properties           11         7-12         molecular weight determination           12         9-12         Solution of electrolytes, properties           13         14-12         Arrhenius theory of dissociation,           14         16-12         ionic strength           15         21-12         Debye-Huchle theory,           16         23-12         coefficients for expressing colligative properties           Half-year Break           17         18           19         20           21         22           23         24           25         26           27         28           29         30	6								
9       30-11       , properties, ideal and real         10       2-12       colligative properties         11       7-12       molecular weight determination         12       9-12       Solution of electrolytes, properties         13       14-12       Arrhenius theory of dissociation,         14       16-12       ionic strength         15       21-12       Debye-Huchle theory,         16       23-12       coefficients for expressing colligative properties         Half-year Break         17       18         19       20         21       22         23       24         25       26         27       28         29       30	7								
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10   2-12   colligative properties			, properties, ideal and real						
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12   9-12   Solution of electrolytes, properties   13   14-12   Arrhenius theory of dissociation,   14   16-12   ionic strength     15   21-12   Debye-Huchle theory,     16   23-12   coefficients for expressing colligative properties     Half-year Break     17       18	1		molecular weight determination						
13       14-12       Arrhenius theory of dissociation,         14       16-12       ionic strength         15       21-12       Debye-Huchle theory,         16       23-12       coefficients for expressing colligative properties         Half-year Break         17       18         19       20         21       22         23       24         25       26         27       28         29       30			Solution of electrolytes, properties						
15   21-12   Debye-Huchle theory,	13		Arrhenius theory of dissociation,						
15	14	16-12	ionic strength						
16   23-12	15		Debye-Huchle theory,						
Properties   Half-year Break   17   18   19     20     21     22     23     24     25   26     27   28   29   30     30			coefficients for expressing colligative						
17         18         19         20         21         22         23         24         25         26         27         28         29         30									
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**Instructor Signature:** 

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