

Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy **QF02/0408-2.1E**

Department Pharmacy

Course Name	Practical General Chemistry for Engineering Students	Course No.	0201144
Prerequisite	General Chemistry	Credit Hours	1
Number & date of course plan approval		Brief Description	See form QF02/0409

Course Objective	To introduce to the student the various standard experimental techniques used in a chemistry lab. To show the student how to collect data and note observations and interpret the results. To interrelate the theoretical knowledge acquired in the general chemistry course with certain experiments.		
Intended Learning Outcomes	Identification of the various glassware & labware used in a chemistry lab. Recognition of the various experimental techniques used in a chemistry lab. Acquiring the knowledge to relate a theoretical principle to a laboratory technique and experiment.		
Course Topics	 Safety rules Gravimetric analysis Limiting reactant Volumetric analysis Enthalpy of reaction Solubility determination Equilibrium 		
Text Book	Practical General Chemistry		



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جامعة الزيتونية الأردنية

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Chemistry, the Central Science; by Brown, LeMay, Bursten, and Murphy General Chemistry; by Ebbing and Gammon References • Chemistry; by Zumdahl & Zumdahl Chemistry, the Molecular Nature of Matter and Change; by Silberberg Course Work = 50% 1^{st} Exam = 25% Practical Course (Reports, Term Papers, Quizzes) Grade 2^{nd} Exam = 25% Grade Determination Final Exam = 50%Determination Final Exam = 50%**Course Outline** Chapters in Week Hours Notes Subjects Textbook 3 Check in 1 2 3 Instructions and safety rules 3 3 Density and chemical observations 4 3 Formula of a hydrate 5 3 Empirical formula of magnesium oxide 3 6 Limiting reactant 7 3 Volumetric analysis I: acid-base titrations 8 3 Volumetric analysis II: redox titration 9 3 Colligative properties 10 3 Heat of a neutralization reaction 11 3 Le Chatelier's Principle 12 3 Determination of an unknown 13 3 Check out 14 3 Final Exam

Approved by Dept. Chair	Date of Approval	

Extra Information: (Updated every semester and filled by course instructor)

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