

Faculty of Pharmacy Al-Zaytoonah University of Jordan " نحو تعليم صيدلاني متميز Toward Excellence in Pharmaceutical Education ة الزيتونـــة الأردنيـة Al-Zaytoonah University of Jordan كلية الصيدلة Faculty of Pharmacy



"Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department				QF02/0408-3.0E
Faculty Pharmacy Department Pharmacy				
Course number	0201542	Course title	Pharm Labora	aceutical Technology atory
Number of credit hours	3	Pre-requisite/co- requisite	Indust	rial Pharmacy

Brief course description

Pharmaceutical technology is one of the most important subject in pharmaceutical sciences and deals with preparation of various dosage forms by variety of techniques on laboratory scale as well as on large scale and their inprocess and out process (final) evaluation. "Pharmaceutical technology: discusses the techniques used in manufacturing and evaluation of different dosage forms in simple and easy to understand manner with the support of theory and experiments. The basic pharmaceutical techniques for manufacturing of conventional dosage forms (milling, particle size analysis, mixing, powder flow ability, granules, quality control of solid dosage forms tablets and capsules: disintegration, dissolution, hardness, friability weight variation, content uniformity, tablets coating).

	Course goals and learning outcomes
Goal 1	Developing the skills of employing the equipments for the specified application(s)
Learning outcomes	The student should be able to 1.1. Name the instruments used in the experiment (sometimes with their brand name) 1.2. Specify the uses of the instruments and relate it to the right industrial stage
Goal 2	Acquiring the skills to analyze the generated data from the experiments and subsequently the constructions of decisions based on those data
Learning outcomes	The student should be able to 3.1. Analyze the generated data form the instrument 3.2. Conduct the proper calculations and transform them into the right plot 3.3.
Goal 3	Developing knowledge for quality control testing and Good manufacture practice (GMP)
Textbook	1 2
Supplementary	1



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references	2	
	3	

Course timeline					
Week	Number of hours	Course topics	Pages (textbook)	Notes	
01	1 1 1	Milling and Particle Size Analysis			
02	1 1 1	Mixing of powders			
03	1 1 1	Flow of Powders and Granules			
04	1 1 1	Granulation: Effect of Binders on Granules Characteristics, Drying: Effect of Temperature and Granule Size on Drying Rate			
05	1 1 1				
06	1 1 1	Quality Control of Tablets: Friability, Hardness, Disintegration, Weight Variation			
07	1 1 1	Quality Control of Tablets: dissolution of tablets			
08	1 1 1	Quality Control of Tablets: uniformity of drug content			
09	1 1 1	Tablet and Granules Coating			
10	1 1 1				
11	1 1 1				
12	1 1 1				
13	1				



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	1 1			
14	1			
14	1 1 1			
15	1 1			
16	1 1 1			

Theoretical course	First exam 25%	Practical (clinical)	Semester students'
evaluation methods	Second exam 25%	course evaluation	work = 50%
and weight	Final exam 50%	methods	(Reports, research,
			quizzes, etc.)
			Final exam $= 50\%$

Approved by head of department	Date of approval	

Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Office Number	
Phone number (extension)	Email	<u> </u>
Office hours		