Jadara University



جامعة جدارا

ref# FR/P1/P1/1/v1

COURSE DESCRIPTIONS

Faculty	Pharmacy					
Department	Pharmacy			NQF level	5	
Course Title	Pharmaceutical Dosage Forms (1)	Code	901341	901215		
Credit Hours	2	Theory	2	-		
Course Leader	Assoc.Professor. Dr. Ahmed Rifaat	email	Ahmed.ga@jadara.edu.jo			
Lecturers	Assoc.Professor. Dr. Ahmed Rifaat	emails	Ahmed.ga@jadara.edu.jo			
Lecture time		Classroom				
Semester		Production		Updated		
Awards				Attendance	Fulltime	

Short Description

This course is designed to introduce the students to the pharmaceutical principles behind the design and formulation of different liquid pharmaceutical preparations, such as solutions, diffusion, coarse dispersions, and colloidal systems. These principles will lay the foundation for dosage form design and manufacture, as well as biopharmaceutics and pharmacokinetics.

Course Objectives

- To introduce students to the principles behind the preparation of pharmaceutical solutions
- To familiarize students with the coarse dispersions
- To introduce students to the various characterizations of colloids

Learning Outcomes

A. Knowledge - Theoretical Understanding

A1. relate quality control of liquid dosage forms and Describe the major types of dosage forms, their different intend, design and formulations.

A2. explain the principles of physical pharmacy and the physicochemical prosperities of the drugs.

B. Knowledge - Practical Application

A3. show different types of liquid dosage forms preparation.

C. Skills - Generic Problem Solving and Analytical Skills

B1. Analyze novel problems and plan strategies for dosage forms preparations and Identify liquid categories of dosage forms .

D. Skills - Communication, ICT, and Numeracy

B2. Explain different liquid dosage forms

E. Competence: Autonomy, Responsibility, and Context

C1. Adapt information for preparation of liquid dosage forms .

Teaching and Learning Methods

- Lectures.
- Research projects and information collection.
- discussion during lectures and tutorial
- self-learning (presenting scientific proposal)

Assessment Methods

quizzes, mid exam, Final exam

Course Contents						
Week	Hours	CLOs	Topics	Teaching &	Assessment	
.1	3	A1, b1	Introduction to liquid dosage forms	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	
.2	3	B1,a1	aqueous solutions, types, enhancement of solubility	Lectures, Research projects and information collection.	Assignments , Mid and final exams	
.3	3	A1,b1	Non-aqueous solutions	discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	
.4	3	A1, b1	colloids	Lectures, Research projects and information collection.	Assignments , Mid and final exams	
.5	3	A2, b1	colloids	discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	
.6	3	A2, b2	Colloids	Lectures, Research projects and information collection.	Assignments , Mid and final exams	
.7	3	A3,B2	suspensions	discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	
.8	3	A3,C1	suspensions	Lectures, Research projects and information collection.	Assignments , Mid and final exams	
.9	3	A3,b2	suspensions	discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	
.10	3	A3,b2	emulsions	Lectures, Research projects and information collection.	Assignments , Mid and final exams	
.11	3	A3,b2,c1	emulsions	discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams	

Infrastructure				
Textbook	 a) Textbook of Pharmaceutical Dispensing, Goyal and Amit, 2018. b) Ansel's pharmaceutical dosage forms and drug delivery systems, Allen and Loyd, 2016. c) A. Martin. Physical Pharmacy. Forth edition. Lea & Febiger, Philadelphia, London, 2018. 			
References	 a) M.E. Aulton. Pharmaceutics: The science of dosage form design. Churchill Living Stone, 1996. b) Bentley's textbook of pharmaceutics. 			

Required reading	
Electronic materials	lectures
Other	

Course Assessment Plan									
	Assessment Method	Crada	CLOs						
Assessment Method		Grade	A1	A2	A3	B1	B2	C1	
First (Midterm)		30	10	5		10	5		
Second (if applicable)									
Final Exam		50	5	10	10	5	10	10	
Coursework									
Coursework assessment methods	Assignments								
	Case study								
	Discussion and interaction								
	Group work activities								
	Lab tests and assignments								
	Presentations								
	Quizzes	20	5	5		5	5		
Total		100	20	20	10	20	20	10	

Plagiarism Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code). Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.