

COURSE DESCRIPTIONS

Faculty	Pharmacy				
Department	Pharmaceutical sciences			NQF level	
Course Title	Pharmaceutical Formulations Laboratory	Code	PHC 449	Prerequisite	PHC 443 or Synchronizing
Credit Hours	1	Theory	---	Practical	1
Course Leader	A.R.Gardouh, PhD.	email	Ahmed.ga@jadara.edu.jo		
Lecturers	A.R.Gardouh, PhD.	emails	Ahmed.ga@jadara.edu.jo		
Lecture time		Classroom			
Semester		Production	2020	Updated	2020
Awards				Attendance	Fulltime

Short Description

To carry out, interpret and formulate different liquid prescription types. students will be able to differentiate between pharmaceutical semisolid dosage forms. Teaches different types of solid dosage forms, including powders, granules, tablets and capsules. Aims to focus on differentiation between dosage forms with respect to their characteristics, methods of preparation, ingredients, uses and advantages over other dosage forms. Provides knowledge on the ingredients and raw materials that are involved in the specific dosage forms. Provides scientific knowledge on different methods and techniques employed in the preparation of these dosage forms

Course Objectives

1. interpret and formulate different liquid prescription types
2. focus on differentiation between dosage forms with respect to their characteristics
Acquiring knowledge regarding solid dosage forms such as Tablets capsules, powders and granules.
3. Acquiring the knowledge regarding preparation of the pharmaceutical products.
4. Acquire knowledge regarding labelling, patient advice and counselling

Learning Outcomes

A. Knowledge - Theoretical Understanding

- a1. Outline different types of dosage forms and prescriptions.
- a2. Discuss procedures of preparations.

B. Knowledge - Practical Application

A3. Practice different types of liquid dosage forms preparation and Explain prescriptions having certain difficulties or incompatibilities. .
C. Skills – Generic Problem Solving and Analytical Skills
B1. Identify categories of dosage forms.
D. Skills – Communication, ICT, and Numeracy
B2. Prepare various solid dosage forms, powders and granules and Specify the proper ware and environment for preparations.
E. Competence: Autonomy, Responsibility, and Context
c1. Retrieve and evaluate information from different sources.
Teaching and Learning Methods
laboratories will be given according to the specified time and location as assigned on the academic schedule (see course information above) followed by practice laboratories will be administrated using power-point presentations and will be provided to the students through e-learning website. Textbook is obligatory and required by the students.
Teaching duration: According to the academic calendar provided at JU website.
Assessment Methods
<ul style="list-style-type: none"> • First Exam (10%) • Second Exam (10%) • Lab tests reports and assignments (30%) • Final Exam (50%)

Course Contents					
Week	Hours	CLOs	Topics	Teaching & Learning Methods	Assessment Methods
1.	1	A1,b1 ,c1	<ul style="list-style-type: none"> • introduction to prescription • reading prescription 	Power point presentation & practice	& lab assignment
2.	1	A1,b1 , c1	Cough syrup , iron mixture	Power point presentation & practice	& lab assignment
3.	1	A1, b1, c1	suspensions	Power point presentation & practice	& lab assignment

4.	1	A2,b2	emulsions	Power point presentation & practice	& lab assignment
5.	1	A2,b2	ointments	Power point presentation & practice	& lab assignment
6.	1	A3,b2	creams	Power point presentation & practice	& lab assignment
7.	1	A3, b2	<ul style="list-style-type: none"> • suppositories • Glycerol gelatin suppositories 	Power point presentation & practice	& lab assignment
8.	1	A3,b2	<ul style="list-style-type: none"> • soap glycerin 	Power point presentation & practice	& lab assignment
9.	1	A3, b2, c1	powders and granules	Power point presentation & practice	& lab assignment
10.	1	A3,b2 ,c1	<ul style="list-style-type: none"> • micromeritics 	Power point presentation & practice	& lab assignment
11.	1	A3, b2, c1	<ul style="list-style-type: none"> • effervescent granules 	Power point presentation & practice	& lab assignment
12.	1	A3, b2, c1	<ul style="list-style-type: none"> • quality control of effervescent granules 	Power point presentation & practice	& lab assignment
13.	1	A3, b2, c1	<ul style="list-style-type: none"> • capsules 	Power point presentation & practice	& lab assignment
14.	1	A3, b2, c1	<ul style="list-style-type: none"> • quality control tests of capsules 	Power point presentation & practice	& lab assignment
15.	1	A3, b2, c1	<ul style="list-style-type: none"> • tablets 	Power point presentation & practice	& lab assignment

Infrastructure	
Textbook	pharmaceutical compounding
References	<ul style="list-style-type: none"> • https://evolve.elsevier.com

	<ul style="list-style-type: none"> Lecture handouts NCBI Database (https://www.ncbi.nlm.nih.gov/): includes many textbooks that are available online FREE.
Required reading	Textbook is obligatory and required by the students
Electronic materials	Provided to the students through JU e-learning website.
Other	In addition to the above, the students will be provided with handouts by the lecturer.

Course Assessment Plan								
Assessment Method	Grade	CLOs						
		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	Assignments							
	Case study							
	Discussion and interaction							
	Group work activities							
	Lab tests and assignments							
	Presentations	20			5		5	10
	Quizzes							
Total	100	15	15	15	15	15	25	

Plagiarism
<p>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).</p> <p>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.</p>