

COURSE DESCRIPTIONS

Faculty					
Department				NQF level	6
Course Title	Dosage forms III	Code	PHC 443	Prerequisite	Dosage forms II
Credit Hours	2	Theory	2	Practical	-
Course Leader	Dr .Ahmed Rifaat	email	Ahmed.ga@jadara.edu.jo		
Lecturers	Dr .Ahmed Rifaat	emails	Ahmed.ga@jadara.edu.jo		
Lecture time		Classroom		Attendance	
Semester	second	Production	2020	Updated	2021

Short Description

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 and scientific knowledge on different methods and techniques employed in the preparation of these dosage forms.

Course Objectives

Acquiring knowledge regarding solid dosage forms such as Tablets capsules , powders and granules.
Acquiring the knowledge regarding preparation of the pharmaceutical products
Acquire knowledge regarding labelling, patient advice and counselling.

Course Intended Learning Outcomes (CILOs)

A. Knowledge - Theoretical Understanding

- a1. Define and identify various characteristic properties of pharmaceutical preparations
- a2. Specify the indications of various dosage forms in the medical field.

B. Knowledge - Practical Application

- a3. Prepare various solid dosage forms, powders and granules.

C. Skills - Generic Problem Solving and Analytical Skills

- b1. Specify the proper ware and environment for preparations.

D. Skills - Communication, ICT, and Numeracy

- b2. Select proper packaging for the finished products.

E. Competence: Autonomy, Responsibility, and Context

c1. Employ the knowledge of physicochemical properties in advising the patient on proper use of the product.

Teaching and Learning Methods

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

Assessment Methods

(quizzes, mid-term exams) and Final exam

Course Contents

Week	Hours	CILOs	Topics	Teaching & Learning Methods	Assessment Methods
1.	2	A1, b1	<ul style="list-style-type: none"> ▪ solid dosage forms : ▪ Introduction, Definitions and Classes 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
2.	2	A1, b1	<ul style="list-style-type: none"> ▪ powders: Bases, Classifications, Properties and Examples 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
3.	2	A2, b1	<ul style="list-style-type: none"> ▪ powders: Bases, Classifications, Properties and Examples 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
4.	2	A3, b2	<ul style="list-style-type: none"> ▪ granules: types, manufacture 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
5.	2	A3, c1	<ul style="list-style-type: none"> ▪ tablets , types.. 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
6.	2	A2, b1	<ul style="list-style-type: none"> ▪ tablets. (continued) 	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams

7.	2	A2, b2	▪ tablets (continued)	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
8.	2	A3, c1	▪ tablets manufacture	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
9.	2	A3, b1	▪ tablets coating.	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
10.	2	A2, b1	capsules	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
11.	2	A3, b2	Hard capsules	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
12.	2	A2, c1	Soft capsules	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
13.	2	A2, c1	Capsule filling	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
14.	2	A1, b1	Modified release capsules	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
15.	2	A3, b2	Sustained release dosage forms	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams

16.	2	A3, c1	Cont. sustained release dosage forms	Lectures, Research projects and information collection. discussion during lectures and tutorial self-learning (presenting scientific proposal)	Assignments , Mid and final exams
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Infrastructure	
Textbook	a) Textbook of Pharmaceutical Dispensing, Goyal and Amit, 2012. b) Ansel's pharmaceutical dosage forms and drug delivery systems, Allen and Loyd, 2008. A. Martin. Physical Pharmacy. Forth edition. Lea & Febiger, Philadelphia, London, 1993.
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	
Other	

Course Assessment Plan								
Assessment Method		Grade	CILOs					
			A1	A2	A3	B1	B2	C1
First (Midterm)		30	5	5	5	5	5	5
Second (if applicable)								
Final Exam		50	10	5	10	5	10	10
Coursework		20						
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	15	15	15	20	15

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</p>

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.