COURSE DESCRIPTIONS

Faculty	Pharmacy				
Department	Pharmaceutical sciences			**NQF level**	
Course Title	Pharmacy Practice Laboratory	**Code**	**PHC 471**	**Prerequisite**	**PHC 443**
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

This practical course aims to teach the students the different aspects of pharmacy practice, handle drug prescriptions, learn different calculations related to dosage form design and parenteral administration. Moreover, the course deals with communication skills practice.

Course Objectives

1. Learning the basic skills of pharmacy practice
2. focus on pharmaceutical calculations related to dosage forms.
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 good pharmacy practice (GPP) and how to apply it..

B. Knowledge - Practical Application

A2. Memorize essential calculations rules for pharmaceutical formulations

A3. Practice different types of problems related to patient counseling.

C. Skills – Generic Problem Solving and Analytical Skills
B1. Identify calculations of use of tablets and capsules in extemporaneous preparations.
D. Skills – Communication, ICT, and Numeracy
B2. Prepare essential rules for buffer and HLB justification.
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
• 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	• Communication skills	Power point presentation & practice	& lab assignment
2.	1	A1,b1 , c1	**Patient counseling**	Power point presentation & practice	& lab assignment
3.	1	A1, b1, c1	**Patient counseling**	Power point presentation & practice	& lab assignment
4.	1	A2,b2	**Examples of patient counseling cases**	Power point presentation & practice	& lab assignment

5.	1	A2,b2	**Examples of patient counseling cases**	Power point presentation & practice	& lab assignment
6.	1	A3,b2	**HLB**	Power point presentation & practice	& lab assignment
7.	1	A3, b2	• buffers	Power point presentation & practice	& lab assignment
8.	1	A3,b2	• **Solubility ratios**	Power point presentation & practice	& lab assignment
9.	1	A3, b2, c1	**Use of tablets and capsules**	Power point presentation & practice	& lab assignment
10.	1	A3,b2 ,c1	• **Rate of flow**	Power point presentation & practice	& lab assignment
11.	1	A3, b2, c1	• **Rate of flow**	Power point presentation & practice	& lab assignment
12.	1	A3, b2, c1	• **Parenteral admixture**	Power point presentation & practice	& lab assignment
13.	1	A3, b2, c1	• **Parenteral admixture**	Power point presentation & practice	& lab assignment

Infrastructure	
Textbook	pharmaceutical compounding and pharmacy practice
References	• https://evolve.elsevier.com • 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 methods	Assignments	20			5		5	10
	Case study							
	Discussion and interaction							
	Group work activities							
	Lab tests and assignments							
	Presentations							
	Quizzes							
Total		100	15	15	15	15	15	25

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.