

Jerash University Faculty of pharmacy

Course Syllabus

Course Title: Advanced		Course and at 1101544			
pharmaceutical technology la	ab	Course coue: 1101344			
Course Level: five year		Course prerequisite (s) and/or co requisite(s):			
		Advanced pharmaceutical technology lab			
Lecture Time: M (12-2)		Credit hourse 1 hour			
W (12-2)		Crean nours: 1 nour			

		Academic Staff		
		Specifics		
Namo	Rank	Office Number and	Office	F-mail Address
Ivaille		Location	Hours	E-man Address
Shadi	doctor	Faculty of Pharmacy		shadi_gharaibeh@hotmail.com
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Haneen Qudah	Instructor	Faculty of Pharmacy		Alqudah_haneen@yahoo.com

Course module description:

This pharmacy practice lab focuses on a number of areas of interest in the fields of pharmacy practice and pharmaceutical care. These areas include: parenteral dosage forms, kinetic degradation of drugs. In addition it reinforces pharmacy practice skills related to patient care in a pharmacy setup in areas of communication with physicians, handling pharmacy errors, construction of patient charts, drug therapy problems, literature search, patient counseling, and vital signs assessment.

Course module objectives:

At the end of this module, students will be able to:

1.	Air	quality	classes	required	to	clean	area	and	buffer	area
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Course/ module components:

• Books (title, author (s), publisher, year of publication)

- 1. United States Pharmacopoeia National formulary, 2006
- 2. British Pharmacopoeia, 2005

References:

- 1. WebMD: <u>http://www.webmd.com/;</u> free
- 2. PubMed: http://www.ncbi.nlm.nih.gov/pubmed/; free
- Support material.
- Study guide.
- Homework and laboratory guide.

Teaching methods:

Practical experimental work

Learning outcomes:

Interactive learning by participating the student into the lab work content.

• Communication skills (personal and academic).

Review concept at office hours

• Practical and subject specific skills (Transferable Skills).

Doing homework and simple reports.

Assessment instruments

Short reports and/ or presentations, and/ or Short research projects

- Quizzes.
- Home works
- Final examination: 40 marks

Allocation of Marks				
Assessment Instruments	Mark			
Midterms examination	20			
Project/assignment / Reports / Quizes	40			
Final examination: 50 marks	40			
Total	100			

Documentation and academic honesty

- Documentation style (with illustrative examples)
- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

	Basic and support material to be covered
week	
(1)	Check in
(2)	introduction
(3)	Sterile dosage forms and equipment utilized for sterile compoundingg
(4)	Professional cleansing and garbing before pharmaceutical handling of
	sterile products
(5)	Aseptic technique used in pharmaceutical preparation and mixing of
	sterile products
(6)	Kinetic degradation of drugs I
(7)	Midterm examination
(8)	Kinetic degradation of drugs II
	Effect of heat
(9)	Milling and Micromeritcs
(10)	Determination of moisture content of powders
(11)	Preparation of microspheres by emulsion gelation using thermal
	manipulation method
(12)	Preparation of microcapules by pan coating method
(13)	Evaluation of primary literature sources in pharmaceutical technology
(14)	Final examination

Expected workload:

On average students need to spend 1 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

Books

- 1. USP DI: Drug information for the health care professional, 1998
- 2. Remington's pharmaceutical sciences, 1985