



**Jerash University
Faculty of pharmacy**

Course Syllabus

Course Title: Advanced pharmaceutical technology lab	Course code: 1101427
Course Level: five year	Course prerequisite (s) and/or co requisite(s): industrial pharmacy
Lecture Time: M (12-2) W (12-2)	Credit hours: 1 hour

**Academic Staff
Specifics**

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Shadi Gharaibeh	doctor	Faculty of Pharmacy		shadi_gharaibeh@hotmail.com
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: compounding of solid dosage forms such as tablets and capsules. 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. Practice compounding of solid dosage forms.
2. Practice proper communication skills with physicians, and handling pharmacy errors.
3. Practice patient counseling, evaluation of vital signs, and establishment of patient charts
4. Practice advanced literature search for pharmacy related information

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: <http://www.webmd.com/>; 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

<u>Allocation of Marks</u>	
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

week	Basic and support material to be covered
(1)	Check in
(2)	introduction
(3)	Communication with physicians
(4)	Handling pharmacy errors.
(5)	Kinetic degradation of drugs
(6)	Preparation of granules.
(7)	Mid term exam
(8)	Preparation of tablets.
(9)	Evaluation of tablets
(10)	Coating tablet
(11)	Filling of hard gelatin capsules.
(12)	Preparation of a liquid solution from pre-filled hard gelatin capsules.
(13)	Micromeretics
(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