Philadelphia University
Faculty of pharmacy
Department of pharmaceutical science
Second semester, 2017/2018

Course Syllabus

Course Title: pharmaceutics 2 Practical	**Course code: 0510324**
Course Level: 3rd year level	**Course prerequisite (s) and/or co requisite (s):** **Co-requisite with: 0510323** **Prerequisite: 0510322**
Lab. Time: **(3) Sun 13 :10-15** **(7/4) Mon 14:10-16:00/ 8:15-10** **(5/1) Tus 11:10-13:00 / 8:10-10** **(8) Wen 11:15- 1:00** **(6/2) Thr 11:10-13:00/8:10-10**	**Credit hours: 1 hr**

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Ph esraa safa Ph kahraman alwahsh Ms alaa adnan	Ph Ph Ms	413	10-11 every day	eabusafa@philadelphia.edu.jo kwahsh@philadelphia.edu.jo aadnan@philadephia.edu.jo

Course module description:

The course is designed to provide the student with basic information about pharmaceutics practical: skills necessary for the continued developing roles of pharmacist, looking for pharmacopeia, making different dosage form like sodium chloride mouthwash ,calamine lotion, cold cream, bismuth subgallate suppositories, compound benzoic acid ointement,and white liniment. The course will cover the formulation of different types of Semisolid dosage forms

Course module objectives:

The course is designed to provide the student basic information about Practical pharmaceutical , including making different dosage form , concept of incompatibility of ingredients , identification of liquid dosage form , semisolid dosage form and liquid dosage form, make differences between solution , emulsion, suspension, skills in how to deal with pharmacopeia , learn basic information about different method of preparation emulsion like dry gum method , wet gum method, bottle method and beaker method , how to deal with balances . Differentiate between types of rectal, vaginal, urethral suppositories, by the end of the lab the student should:

1. Acquire basic skills in using pharmacopeia
2. Understanding the concepts of pharmaceutical Semisolid dosage forms , factors that affect their stability and describing approaches used in preparing physically stable formulations.
3. Describe and differentiate between liquid dosage form .
4. Concept of incompatibility of ingredients in any formula .
5. Calculation for any formula .
6. Understand and Compare various suppositories dosage forms in terms of physical appearance, size, and shape. And describe the advantages and disadvantages of suppository drug delivery and the physiological factors affect their absorption

.**Course/ module components**

Text book:

1. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems
By Loyd V. Allen, Jr., PhD , Nicholas G. Popovich, PhD
And Howard C. Ansel, PhD . English edition , ninth edition .

2. Pharmaceutics The Science of Dosage Form Design, Edit.: Michael E. Aulton, Pub.: Churchill Livingstone, 2nd edition, 2002.

The above textbooks cover the course material in detail. However, additional practical tips, examples and conclusions are discussed in details by the lecturer and the student will be responsible for the additional material.

Teaching methods

Practical experimental work, tutorials and research.

Learning outcomes:

- **Knowledge and understanding**
  Student learn the concepts of pharmaceutical dosage form , learning compounding for any formula and of incompatibility of ingredients in any formula , pharmacopeia skills

- **Cognitive skills (thinking and analysis).**
  Students develop the ability to make observations, record data and analyze results

- **Communication skills (personal and academic).**
  Students will develop the ability for group discussions and critical thinking

- **Practical and subject specific skills (Transferable Skills).**
  Doing homework and simple reports.

Assessment instruments

Allocation of Marks	
Assessment Instruments	**Mark**
Reports and evaluation	**30**
Quizzes	**20**
Practical exam	**10**
Final examination	**40**
Total	**100**

Documentation and academic honesty

- **Documentation style (with illustrative examples)**

Taking headlines/notes from the lab manual with further elaborated/detailed discussion during the lab hours**.**

- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

week NO#	Title	Preparations	Notes
(1) 4-8/3/2018	Solutions designed for use in body cavities	**********	**Every week the student has to submit a report about previous experiment**
	Gargles and Mouthwashes	*prepare 50ml Sodium Chloride Compound Mouthwash B.P.	
	Douches	*prepare 50ml of .1% Potassium Permanganate vaginal douche.	
(2) 11-15/3/2018	Suspensions	*prepare 50ml Calamine lotion BP.	
(3) 18-22/3/2018 **(4) 25-29/3/2018**	Emulsions	* prepare 50 ml Mineral oil emulsion USP. * prepare 50 ml White liniment BP	
(5)8-12/4/2018	Creams	* prepare 25 g cold cream. * prepare 25 g Vanishing cream.	
(6) 15-19/4/2018	Ointments	* prepare 25g Emulsifying ointment BP. * prepare 25g compound benzoic acid ointment BP.	
(7) 22-26/4/2018	pastes and gels	* prepare 50g Zinc Oxide and Salicylic Acid Paste B.P. *prepare 50g Zinc Glycerol-Gelatin Jelly B.P.	
(8) 29/4-3/5/2018 **(9) 13-17/5/2018**	suppositories	* prepare Glycerol-gelatin suppository USP. * prepare Compound Bismuth subgallate suppositories BP.	
10	Practical final exam		

Expected workload:

On average students need to spend 2 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

References:

Students will be expected to give the same attention to these references as given to the Module textbook(s)

1. Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems
By Loyd V. Allen, Jr., PhD , Nicholas G. Popovich, PhD
And Howard C. Ansel, PhD . English edition , ninth edition .

2. Pharmaceutics The Science of Dosage Form Design, Edit.: Michael E. Aulton, Pub.: Churchill Livingstone, 2nd edition, 2002.

3. Pharmacopeia

Websites
http://www.philadelphia.edu.jo/pharmacy/resources.html