



Sohag University



Faculty of pharmacy

Quality Assurance Unit

Course Specifications

University: Sohag University

Code: PT213

Title : Dosage Forms 1

Course Specifications

Program (s) on which the course is given : Pharmacy Program

Department offering the program: Department of Pharmaceutics and Clinical Pharmacy

Academic year / Level : 2nd year

Date of specification approval 2015/2016

Basic Information

Prerequisites:physical pharmacy.....

Credit Hours: 2+1.....

Lecture: ...13...

Tutorial:

Practical: ...12.....

Total:38.....

A- Professional Information

1- Overall aims of course

The course aims to make the students familiar with common dosage forms in use today. The course presents an introduction to different dosage forms, pharmaceutical excipients, factors affecting dosage form design and pharmaceutical calculations. The course covers in more details some specific dosage forms such as powder technology, colloids, suspensions, emulsions, microencapsulation, syrups, spirits, elixirs, solid dosage forms as tablets and capsules. The practical part of this category aims to make the students familiar with basic concentrations expressions and pharmaceutical calculations and an introducing the general guidelines for compounding drug preparations, the different methods for preparation of powder, emulsions, lotions, syrups and other dosage forms and their applications to dosage form design

2- Intended learning outcomes of course (ILOs)



a- Knowledge & understanding:

- 1) Recognize the advantages and the disadvantages of different liquid and semisolid dosage forms.
- 2) Define the meaning of dosage forms.
- 3) Identify the active constituents of different liquid and semisolid dosage forms.

b- Intellectual skills

- 1-Differentiate between Latin abbreviations in pharmaceutical products.
- 2-Distinguish different component of the prescription.
- 3- Calculate the dilution and concentration.

c- Professional skills

- 1-Formulate different liquid and semisolid dosage forms.
- 2-Compose different types of emulsions.

d- General & transferable skills

- 1) Demonstrate profession competence in internet.
- 2) Communicate clearly by verbal and written means.

Contents

Week NO.	Topic	NO. of Hours	Lecturer	Tutorial / Practical
W1	calculation	2	1	1
W2	solution	2	1	1
W3	solution	2	1	1
W4	suspension	2	1	1
W5	suspension	2	1	1
W6	emulsion	2	1	1
W7				
W8	Mid – Semester Exam			



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W9	emulsion	2	1	1
W10	cream	2	1	1
W11	cream	2	1	1
W12	ointment	2	1	1
W13	ointment	2	1	1
W14	ophthalmic	2	1	1
W15	nazal	2	1	
W16	Final Exam			
Total		26		12

3- Teaching & learning methods

- 1- Lectures
- 2- Practical lessons
- 3- Tutorials
- 4- essay

4 -Student assessment methods

- 1- Written exams: to assess the student's understanding and knowledge.
- 2- Oral exams: to assess the student's understanding and their abilities to communicate and express their knowledge efficiently.
- 3- Practical exams: to assess student's abilities and skills in compounding and dispensing different dosage forms as well as measuring some physical properties.
- 4- Evaluation in each practical lesson or tutorial to assess the student's effective participation in the class activities.

Assessment schedule

Med – Term Exam..... 11th week

Practical Exam..... 16th week

Written final Exam 17th week *

Oral Exam 17th week*

Weighing of assessments



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Mid-term examination 15 Marks
Practical Examination 30 Marks
Oral examination 15 Marks
Final – term examination 90 Marks
Total 150 Marks
Any formative only assessments

6-List of references

6, 1- Course notes

- 1- American pharmacy and pharmaceutical calculation book
- 2- Pharmaceutics: The science of dosage form design, 2th edu.,
M.Aulton Churchill Livingstone, 2002

6, 2- Essential book (text books)

- 1- Physical pharmacy- physical chemical principles in the pharmaceutical science, 4th edu., A. Matin, Lea and Febiger, 1993
 - 2- Pharmaceutical dosage forms and drug delivery systems- Ansel, H.C: and popovich, NG-5th edition, Williams and Wilkins, 1990.
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6, 3- Recommended books

- 1- Remington: The science and practice of pharmacy, 20th edu,
A. Gennaro, Lippincott, 2000
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6, 4- Periodicals, Web sitesetc

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7- Facilities required for teaching & Learning

Teacher name: Mahmoud M. Ahmed Elsayed

Contact:- e-mail: m_almenshawy80@hotmail.com

Course coordinator:- Ass.Prof. Dr/ Mahmoud M. Ahmed Elsayed

Head of Department: Ass.Prof. Dr / Mahmoud M. Ahmed Elsayed

Date: 15/9/2015



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