



Model (No 12)
Course Specification : Pharmaceutics 1

Faculty of Pharmacy

Farabi Quality Management of Education and Learning - 16/1/2021

University : Mansoura University

Faculty : Faculty of Pharmacy

Department :

1- Course data :-

Code:	PT 213		
Course title:	Pharmaceutics 1		
Level:	مستوى الثانى		
Program Title:	• pharmaceutical sciences		
Specialization:	Major		
Teaching Hours:	Theoretical: 2	Tutorial:	Practical: 1

2- Course aims :-

1. Cover the pharmaceutical calculations, formulations, compounding, preservation and storage of different dosage forms
2. Know different types of incompatibilities (physical, chemical, therapeutics)
3. Prepare drugs in different dosage forms as oral preparations
4. Know the different types of solutions and their route of administration

3- Intended learning outcomes of course (ILO'S) :-

a- Knowledge and understanding

1. [a1] Identify the principles of pharmaceutical sciences as well as pharmacy practice.
 - o a1.1-Illustrate the principles of pharmaceutical dosage forms and their preparation techniques including manufacturing, packaging and labeling processes
2. [a2] Define the physical, chemical and microscopical properties of various substances used in preparation of medicines and the properties of different pharmaceutical dosage forms.

-
- a2.1-Identify various active medicaments and excipients used in the formulation of pharmaceutical dosage forms and their rationale of use and possible side effects
3. [a6] Recall the principles of various instruments and techniques including manufacturing, packaging, labeling and storing processes in pharmaceutical industry.
- a6.1-Recognize various compounding procedures and instruments used in manufacture of pharmaceuticals dosage forms

b- Intellectual skills

1. [b4] Predict possible incompatibilities and other prescription-related problems that may occur during drug dispensing.
- b4.1-Identify possible compounding incompatibilities and solve them

c- Professional and practical skills

1. [c3] Employ proper and safe dispersing, labeling and storing of medicines and pharmaceutical preparation.
- c3.1-Illustrate safe compounding procedures and proper formulation labeling for ease of use by patients

d- General and transferable skills

1. [d2] Retrieve and critically evaluate pharmaceutical information and clinical laboratory data from different sources to improve professional competencies.
- d2.1-Develop a variety of practical skills required in compounding drug formulations and critical thinking ability
2. [d3] Interact effectively in team working.
- d3.1-Collaborate with fellow students to perform group discussions and projects

4- Course contents :-

No	Topics	Week
----	--------	------

1	Pharmaceutical calculations	1
2	Suspensions	2-3
3	Colloids	4-5
4	Emulsions	6, 8
5	Pharmaceutical solutions and water	9-10
6	Syrups, Elixir and Dry mixture	11-12
7	Solutions instilled into cavities	13

5- Teaching and learning methods :-

S	Method	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	Lectures using white board and data show	a1.1,a2.1,a6.1	b4.1		d2.1,d3.1
2	Practical session using laboratory equipment	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1

6- Teaching and learning methods of disables :-

1. N/A

7- Student assessment :-

a- Student assessment methods

No	Assessment Method	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	Written exam	a1.1,a2.1,a6.1	b4.1		d2.1,d3.1
2	Practical exam	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
3	Oral	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
4	Quizzes	a1.1,a2.1,a6.1	b4.1		

b- Assessment schedule

No	Method	Week
1	Mid-term	7
2	Practical	12
3	Written	15
4	Oral	15

c- Weighting of assessments

No	Method	Weight
1	Mid-term	10
2	Practical	25
3	Written	50
4	Oral	15
Total		100%

8- List of references

S	Item	Type
1	Course Notes	Course notes
2	"Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems" 10th Ed., Wolters Kluwer, Loyd Allen, Howard C. Ansel, Lippincott Williams and Wilkins, Philadelphia, (2013)	Books
3	"Remington's: The science and practice of pharmacy" 22nd Ed., Pharmaceutical Press, Lippincott Williams and Wilkins, Philadelphia, (2012)	Books
4	"Aulton's Pharmaceutics: The design and manufacture of medicines" 4th Ed., Michael E.Aulton, Kevin M.G. Taylor, (2013)	Books
5	http://www.sciencedirect.com http://www.google.com http://www.pubmed.com	Web sites

9- Matrix of knowledge and skills of the course

S	Course contents	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	Pharmaceutical calculations	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
2	Suspensions	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
3	Colloids	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
4	Emulsions	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
5	Pharmaceutical solutions and water	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
6	Syrups, Elixir and Dry mixture	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1
7	Solutions instilled into cavities	a1.1,a2.1,a6.1	b4.1	c3.1	d2.1,d3.1

Course Coordinator(s): -

Galal Mahmoud ABdelGhany Elsayed

Head of department: -

Osama abdelAzeem Soliman