



**Model (No 12)**  
**Course Specification : Pharmaceutics**

Faculty of Pharmacy

Farabi Quality Management of Education and Learning - 20/1/2021

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**University :** Mansoura University

**Faculty :** Faculty of Pharmacy

**Department :**

**1- Course data :-**

<b>Code:</b>	PT213				
<b>Course title:</b>	Pharmaceutics				
<b>Level:</b>	Two				
<b>Program Title:</b>	• pharmaceutical sciences				
<b>Specialization:</b>	Major				
<b>Teaching Hours:</b>	<b>Theoretical:</b>	2	<b>Tutorial:</b>		<b>Practical:</b> 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 basic, pharmaceutical, medical, food components, herbal, social, behavioral, management, health and environmental sciences as well as pharmacy practice.
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.
3. [a6] Recall the principles of various instruments and techniques including manufacturing,

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packaging, labeling and storing processes in pharmaceutical industry.

4. **b- Intellectual skills**

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

2. **c- Professional and practical skills**

1. [c3] Employ proper and safe dispersing, labeling and storing of medicines and pharmaceutical preparation.

2. **d- General and transferable skills**

1. [d2] Retrieve and critically evaluate pharmaceutical information and clinical laboratory data from different sources to improve professional competencies.
2. [d3] Interact effectively in team working.

**4- Course contents :-**

No	Topics	Week
1	pharmaceutical calculations	1st
2	suspensions	2nd-3rd
3	colloids	4th-5th
4	Emulsions	6th
5	Mid-Term Exam	7th
6	Emulsions	8th
7	pharmaceutical solutions and water	9th-10th
8	syrups, elixir, dry mixture	11th-12th
9	solutions instilled into cavities	13th

**5- Teaching and learning methods :-**

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

## 6- Teaching and learning methods of disables :-

1. No data found.

## 7- Student assessment :-

### a- Student assessment methods

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

### b- Assessment schedule

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

### c- Weighting of assessments

No	Method	Weight
1	Mid-term examination	10 %
2	Final-term examination	50 %
3	Oral examination	15 %
4	Practical examination & Semester work	25 %
Total		100%

## 8- List of references

S	Item	Type
1	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
2	Remington's: The science and practice of pharmacy" 22nd Ed., Pharmaceutical Press, Lippincott Williams and Wilkins, Philadelphia, (2012).	Books
3	"Aulton's Pharmaceutics: The design and manufacture of medicines" 4th Ed., Michael E.Aulton, Kevin M.G. Taylor, (2013).	Books
4	<a href="http://www.sciencedirect.com">http://www.sciencedirect.com</a>	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,a2,a6	b4	c3	
2	suspensions	a1,a2,a6	b4	c3	
3	colloids	a1,a2,a6	b4	c3	
4	Emulsions	a1,a2,a6	b4	c3	
5	Mid-Term Exam	a1,a2,a6	b4	c3	
6	Emulsions	a1,a2,a6	b4	c3	
7	pharmaceutical solutions and water	a1,a2,a6	b4	c3	
8	syrups, elixir, dry mixture	a1,a2,a6	b4	c3	
9	solutions instilled into cavities	a1,a2,a6	b4	c3	

### Course Coordinator(s): -

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### Head of department: -

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