



Course specification  
2018- 2019  
Faculty of Pharmacy  
Mansoura University



المستوى الثالث

Pharmaceutical Dosage Forms (2)

**University:** Mansoura  
**Faculty :** Pharmacy  
**Department :** Pharmaceutics  
**Course title:** Pharmaceutical Dosage Forms (2)

<b>Program on which the course is given</b>	Credit hour
<b>Academic Level</b>	Third Level, semester one
<b>Date of course specification approval</b>	

**1- Basic Information : Course data :**

<b>Course title:</b>	Pharmaceutical Dosage Forms (2)	<b>Code:</b> PT315	
<b>Specialization:</b>	pharmaceutical sciences		
<b>Prerequisite:</b>			
<b>Teaching Hours:</b>	<b>Lecture:</b> 2	<b>Practical:</b> 1	
<b>Number of units: (credit hours)</b>	3		

**2- Course Aims:**

On completion of the course, the student will be able to Understand the basic principles and techniques of compounding and dispensing different pharmaceutical dosage forms such as parenteral and ophthalmic products.

, know the basic principles and techniques of compounding and dispensing different pharmaceutical dosage forms such as cosmetic preparations (like: skin-care preparations, hair-care preparations, color cosmetics, baby-care products, dental products, personal hygiene products), prepare certain drugs in different dosage forms as cosmetic preparations, identify the basic components of pharmaceutical aerosols and prepare drugs in different dosage forms as parenteral, ophthalmic preparations and topical preparations.

**Intended learning outcomes (ILO<sub>S</sub>):**

**a- Knowledge and understanding**

<b>a1</b>	Recognize different pharmaceutical dosage forms such as topical preparations, semisolid preparations, parenteral, ophthalmic, aerosols preparations and different cosmetic preparations.
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<b>a2</b>	Discuss properties of different pharmaceutical dosage forms.
<b>a3</b>	Define the physical properties of various substances used in preparation of medicines such as the solubility, stability, biological activity and incompatibility of drugs and dosage forms.
<b>a4</b>	Explain the methods of manufacture and quality control tests of pharmaceutical aerosols.

**b- Intellectual skills**

<b>b1</b>	1. Formulate principles of formulation of safe and effective medicines through selection of the suitable techniques in sterilizations.
<b>b2</b>	2. Design any possible incompatibilities and other prescription-related problems that may occur during drug dispensing by adjusting the additives used during preparation.

**c- Professional and practical skills**

<b>c1</b>	Utilize proper and safe dispersing, labeling and storing of medicines and pharmaceutical preparation through evaluation of the factors influencing the final design and formulation of drug products
<b>c2</b>	Apply the different methods of preparation of topical preparations

**d- General and transferable skills**

<b>d1</b>	Work effectively in team
<b>d2</b>	Communicate effectively in a scientific language.

**3- Contents:-**

<b>Week No</b>	<b>Topics</b>	<b>No.of hours</b>	<b>Lecture (hr.)</b>	<b>Practical</b>
<b>1.</b>	Parenteral preparations.	2	2hr	
<b>2.</b>	Parenteral preparations.	2	2	
<b>3.</b>	Ophthalmic preparations.	2	2	
<b>4.</b>	Ophthalmic preparations.	2	2	
<b>5.</b>	Cosmetic preparations (Skin-care preparations, hair-care preparations, color cosmetics, baby-care products, dental products, personal hygiene products).	2	2	



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6	Cosmetic preparations (Skin-care preparations, hair-care preparations, color cosmetics, baby-care products, dental products, personal hygiene products).	2	2	
7	<b>Mid-term</b>	-	-	
8	Pharmaceutical aerosols (Definition, components, manufacture, quality control).	2	2	
9	Pharmaceutical aerosols (manufacture).	2	2	
10	Pharmaceutical aerosols (quality control).	2	2	
11	topical Semi -solid preparations which includes ointment, cream and gel .	2	2	
12	topical Semi -solid preparations which includes paste, poultices and plasters	2	2	
13	<b>Practical</b>			
14	<b>Week 15 Final written &amp; oral</b>			
	<b>Practical topics</b>			
1	Cold Cream	2		1
2	Vanishing Cream	2		1
3	Shaving Cream (Brush & Brushless shaving cream)	2		1
4	Sunscreen Cream	2		1
5	Cleansing Cream	2		1
6	Ointment	2		1
7	<b>Mid Term</b>			
8	Shampoo	2		1
9	Stick& Tooth paste	2		1
10	Activity/ Revision/ Open discussion	2		1

#### 4- Teaching and learning Methods :

5.1	Lectures using white board and data show.
5.2	Practical session using laboratory equipment
5.3	problem solving.

#### 5- Student Assessment:

##### a- Assessment methods:

1-Written exam	To assess understanding, intellectual, professional
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2-Practical exam	To assess professional and practical skills
3-Oral	To assess Knowledge, understanding, intellectual skills, general skills and confidence

b- Assessment schedule

Assessment 1	Practical	13 <sup>th</sup> week
Assessment 3	Mid-term	7 <sup>th</sup> week
Assessment 3	Oral	15 <sup>th</sup> week
Assessment 45	Written	15 <sup>th</sup> week

1	Mid-term examination	10 %
2	Final-term examination	50 %
3	Oral examination	15 %
4	Practical examination & Semester work	25 %
Total		100%

c- Weighting of assessments

6 - List of References

N0.	Reference	type
1	British pharmacopoeia, Vol., I, first Ed., The stationery office, London, U.K., (2010)	book
2	Handbook of pharmaceutical Manufacturing Formulations second Ed., Sarfaraz K. Niazi (2009)	book
3	"Remington's: The science and practice of pharmacy" 21st Ed., Gennaro, A.R., ed., Mack publishing C., Lippincott Williams and Wilkins, Philadelphia, (2006)	book
4	"Ansel's: Pharmaceutical Dosage Forms and drug delivery Systems" 8th Ed., Wolters Kluwer, Lippincott Williams and Wilkins, Philadelphia, (2005)	book
5	Lectures notes prepared by staff members	Course notes



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**7- Matrix of knowledge and skills of the course**

No	Course contents	Study Week	ILOS			
			Knowledge & understanding	Intellectual skills	Professional and practical skills	General & transferable skills
1.	Parenteral preparations	2	a1,a2			d2
2.	Ophthalmic preparations.	2	a1,a2			d2
3.	Cosmetic preparations (Skin-care preparations, hair-care preparations, color cosmetics, baby-care products, dental products, personal hygiene products).	2	a2,a3			d2
4.	Pharmaceutical aerosols( Definition, components, manufacture, quality control).	3	a1	b1	c1	d2
5.	Topical Semi -solid preparations which includes ointment, cream, gel, paste, poultices and plasters	2	a1		c2	d2

<b>course Coordinator :</b>	<b>Abd-elgawad Helmy Abd-elgawad</b>
<b>Head of department</b>	<b>Osama Abd-Elazim Soliman</b>