



Model (No 12)
Course Specification : Pharmaceutical Dosage Forms (2)

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:	PT315				
Course title:	Pharmaceutical Dosage Forms (2)				
Level:	Three				
Program Title:	• pharmaceutical sciences				
Specialization:	Major				
Teaching Hours:	Theoretical:	2	Tutorial:		Practical: 1

2- Course aims :-

1. 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
2. Know the basic principles and techniques of compounding and dispensing different pharmaceutical dosage forms such as cosmetic preparations (skin-care preparations, hair-care preparations, dental products)
3. Prepare certain drugs in different forms as parenteral, ophthalmic preparations and topical preparations.

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

a- Knowledge and understanding

1. [a3] Define the physical properties of various substances used in preparation of medicines such as solubility, stability, biological activity and incompatibility of drugs and dosage forms.
2. [a4] Explain the methods of manufacture and quality control tests of pharmaceutical aerosols

3. [a1] Recognize different pharmaceutical dosage forms.
4. [a2] Discuss properties of different pharmaceutical dosage forms.

5. **b- Intellectual skills**

1. [b1] formulate principles of formulation of safe and effective medicine through selection of suitable techniques in sterilization
2. [b2] design any possible incompatibilities and other prescription-related problems that may occur during drug dispensing by adjusting the additives used during preparation.

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

1. [c1] 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
2. [c2] Apply the different methods of preparation of topical preparations

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

1. [d1] Work effectively in team .
2. [d2] Communicate effectively in scientific language.

4- Course contents :-

No	Topics	Week
1	parenteral preparations	2
2	ophthalmic preparations	2
3	cosmetic preparations	2
4	pharmaceutical aerosols(definition ,compounds,manufacture, quality control)	3
5	Topical semi-solid preparations which includes ointment ,creams,gels,paste,poultices and plasters	

5- Teaching and learning methods :-

S	Method	Knowledge	Intellectual	Professional	General
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		and understanding	skills	skills	skills
1	lectures using white board and data show.				
2	practical session using laboratory equipment				
3	problem solving				

6- Teaching and learning methods of disables :-

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7- Student assessment :-

a- Student assessment methods

No	Assessment Method	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	written exam to assess understanding, intellectual, professional				
2	practical exam to assess professional and practical skills				
3	oral exam to assess knowledge, understanding, intellectual skills, general skills and confidence				

b- Assessment schedule

No	Method	Week
1	practical	13th week
2	mid term	7th week
3	oral	15th week
4	written	15th week

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	British pharmacopoeia,vol,I,first Ed,The stationary office ,London,U.K.,(2010)	Books
2	Handbook of pharmaceutical manufacturing Formulations second Ed,,Sarfaraz K.Niazi(2009)	Books
3	Ed.,Gennaro,A.R.,ed.,Mack publishing C.,Lippincott Williams and Wilkins ,philadelphia,(2005)	Books
4	Lectures notes prepared by staff members	Course notes

9- Matrix of knowledge and skills of the course

S	Course contents	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	parental preparations	a1,a2			d2
2	ophthalmic preparations	a1,a2			d2
3	cosmetic preparations	a3,a2			d2
4	pharmaceutical aerosols(definition ,compounds,manufacture, quality control)	a1	b1	c1	d2
5	Topical semi-solid preparations which includes ointment ,creams,gels,paste,poultices and plasters	a1		c2	d2

Course Coordinator(s): -

Abdelgawad Helmi Abdelgawad

Head of department: -

Osama abdelAzeem Soliman