



Model (No 12)
Course Specification : Pharmacognosy (2)
2020/2021

Faculty of Pharmacy

Farabi Quality Management of Education and Learning - 15/1/2021

University : Mansoura University

Faculty : Faculty of Pharmacy

Department :

1- Course data :-

Code:	PG213		
Course title:	Pharmacognosy (2)		
Level:	Two		
Program Title:	• pharmaceutical sciences		
Specialization:	Major		
Teaching Hours:	Theoretical: 2	Tutorial:	Practical: 1

2- Course aims :-

1. Provide the student with the knowledge and skills related to drugs from different plant origin such as seeds, fruits and herbs which reputed to be used in folk medicine and have curative values.
2. Prepare the student to practical aspects and identification of natural medicinal drugs.

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.
 - a1.1-List the principles of seeds, fruits and herbal drugs identification.
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.

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- a2.1-Recognize the physical, chemical and microscopical properties of seeds, fruits and herbal drugs used in preparation of herbal mixtures.

b- Intellectual skills

1. [b16] Predict the physical and chemical properties and biological activity of natural and synthetic compounds based on molecular structure.
 - b16.1-Distinguish the physical, chemical properties and biological activity of seeds, fruits and herbal drugs
2. [b19] Categorize the different parts of medicinal plants by their botanical and taxonomical features.
 - b19.1-Explain the different parts of medicinal plants (seeds, fruits and herbs) by their botanical and taxonomical features

c- Professional and practical skills

1. [c4] Apply appropriate methods for extraction, isolation, synthesis, purification, identification and standardization of active substances from different origins.
 - c4.1-Employ appropriate methods for identification of seeds, fruits and herbs as well as assessment of the quality control (QC) of the these herbal drugs.
2. [c14] Apply different qualitative and quantitative analytical, chemical, microscopical, and biological methods for identification, quality control (QC) and assay of raw materials as well as pharmaceutical preparations.
 - c14.1-utilize different microscopical methods for identification of raw materials (seeds, fruits and herbs).

d- General and transferable skills

1. [d3] Interact effectively in team working.
 - d3.1-Work effectively in team
2. [d8] Present information clearly in written, electronic and oral forms.
 - d8.1-Communicate clearly in written, electronic and oral forms.

4- Course contents :-

No	Topics	Week
1	Introduction to seeds, medicinal seeds as Nux vomica, Linseed, Strophanthus, Foenugreek, Black mustard, Cardamom, .	1-3
2	Medicinal unofficial seeds (e.g. Areca, Coffea rosta, Calabar bean, Ricinus, Cocoa seeds)	4
3	Introduction to fruits, medicinal fruits as Umbelliferous fruits: Fennel, Anise, Caraway, Coriander, Ammi visnaga, Ammi majus, Capsicum, Colocynth, Senna fruit, Bitter orange peel, Lemon	5,6, 8
4	Medicinal unofficial fruits (e.g. Cummin, Dill, Hemlock, black pepper and Cubebs).	9
5	Medicinal herbs as Lobelia, Mentha, Thymus, Lavander, Hyoscyamus, Catharanthus, Cannabis, Ephedra and Ergot	10-12

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	b16.1,b19.1	c4.1,c14.1	d8.1
2	Practical session using laboratory equipment (Microscopes and glass wares	a1.1,a2.1	b16.1,b19.1	c4.1,c14.1	d3.1,d8.1
3	Case study	a1.1,a2.1	b16.1,b19.1		d3.1,d8.1

6- Teaching and learning methods of disables :-

1. non

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	b16.1,b19.1	c4.1,c14.1	d8.1
2	Practical exam	a1.1,a2.1	b16.1,b19.1	c4.1,c14.1	d3.1,d8.1
3	Oral exam	a1.1,a2.1	b16.1,b19.1		d3.1,d8.1

b- Assessment schedule

No	Method	Week
1	Mid-term exam	7

2	Practical exam	13
3	Written Exam	15
4	Oral Exam	15

c- Weighting of assessments

No	Method	Weight
1	Mid-term exam	10
2	Practical exam (and semester word)	25
3	Written exam	50
4	oral exam	15
Total		100%

8- List of references

S	Item	Type
1	Evans, W.C. "Trease and Evans Pharmacognosy" Saunders, London, New York, Sydney, Toronto, 2002	Books
2	Jackson, B.P. and Snowdon, D.W. "Powdered vegetable drugs" Stanley Thornes LTd., London, 2007.	Books
3	Pharmacognosy 2 by staff members of Pharmacognosy.	Course notes

9- Matrix of knowledge and skills of the course

S	Course contents	Knowledge and understanding	Intellectual skills	Professional skills	General skills
1	Introduction to seeds, medicinal seeds as Nux vomica, Linseed, Strophanthus, Foenugreek, Black mustard, Cardamom, .	a1.1,a2.1	b16.1,b19.1	c4.1,c14.1	d3.1,d8.1
2	Medicinal unofficial seeds (e.g. Areca, Coffea rosta, Calabar bean, Ricinus, Cocoa seeds)	a1.1,a2.1	b16.1,b19.1		
3	Introduction to fruits, medicinal fruits as Umbelliferous fruits: Fennel, Anise, Caraway,	a1.1,a2.1	b16.1,b19.1	c4.1,c14.1	d3.1,d8.1

	Coriander, Ammi visnaga, Ammi majus, Capsicum, Colocynth, Senna fruit, Bitter orange peel, Lemon				
4	Medicinal unofficial fruits (e.g. Cummin, Dill, Hemlock, black pepper and Cubebs).	a1.1,a2.1	b16.1,b19.1		
5	Medicinal herbs as Lobelia, Mentha, Thymus, Lavander, Hyoscyamus, Catharanthus, Cannabis, Ephedra and Ergot	a1.1,a2.1	b16.1,b19.1	c4.1,c14.1	d3.1,d8.1

Course Coordinator(s): -

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Head of department: -

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