



Course specification  
2018- 2019  
Faculty of Pharmacy  
Mansoura University



المستوى الثاني

توصيف مقرر-2 Pharmacognosy

University: Mansoura University (MU)  
Faculty : Pharmacy  
Department : Pharmacognosy  
Course title: Pharmacognosy-2

Program on which the course is given	B. Pharm
Academic Level	Second Level, First semester
Date of course specification approval	10/9/2018

1- Basic Information : Course data :

Course title:	Pharmacognosy-2	Code:PG-213	
Specialization:	pharmaceutical		
Prerequisite: Registration			
Teaching Hours:	Lecture: 2	Practical: 1	
Number of units: (credit hours)	3		

2- Course Aims:

- 2.1 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.
- 2.2 Prepare the student to practical aspects and identification of natural medicinal drugs.

3-Intended learning outcomes (ILOs):

a- Knowledge and understanding

a1	Identify the principles of pharmaceutical, herbal and environmental sciences as well as pharmacy practice.
a2	Recognize the physical, chemical and microscopical properties of various substances used in preparation of medicines and herbal mixtures.

b- Intellectual skills

b1	Distinguish the physical and chemical properties and biological activity of natural compounds based on molecular structure.
b2	Explain the different parts of medicinal plants by their botanical and taxonomical features.



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**c- Professional and practical skills**

<b>c1</b>	Apply different qualitative and microscopical methods for identification of raw materials.
<b>c2</b>	Employ appropriate methods for identification of active substances from natural origin as well as assessment of the quality control (QC) of pharmaceutical preparations.

**d- General and transferable skills**

<b>d1</b>	Interact effectively in team working.
<b>d2</b>	Present information clearly in written, electronic and oral forms.

**4- Contents :-**

<b>Week No</b>	<b>Topics</b>	<b>No.of hours</b>	<b>Lecture credit hours</b>	<b>Practical credit hours</b>
<b>1.</b>	Medicinal seeds as Nux vomica, Linseed, Strophanthus.	2	2	
<b>2.</b>	Medicinal seeds as Foenugreek, Black mustard, Cardamom.	2	2	
<b>3.</b>	Medicinal seeds as Nutmeg, Colchicum, Psyllium.	2	2	
<b>4.</b>	Medicinal unofficial seeds (e.g. Areca, Coffea rosta, Calabar bean, Ricinus, Cocoa seeds).	2	2	
<b>5.</b>	Medicinal fruits as Umbelliferous fruits (Fennel, Anise, Caraway, Coriander.	2	2	
<b>6.</b>	Medicinal fruits as Ammi visnaga, Ammi majus), Capsicum fruit, Colocynth fruit.	2	2	
<b>7.</b>	<b>Week 7<sup>th</sup> Med-term Exam</b>			
<b>8.</b>	Medicinal fruits as Senna fruit, Bitter orange peel, Lemon	2	2	
<b>9.</b>	Medicinal unofficial fruits (e.g. Cummin, Dill, Hemlock, black pepper and Cubebs).	2	2	
<b>10.</b>	Medicinal herbs as Lobelia, Mentha, Thymus.	2	2	



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11.	Medicinal herbs as Lavander, Hyoscyamus and Catharanthus.	2	2	
12.	Medicinal herbs as Cannabis, Ephedra herbs and Ergot.	2	2	
13.	<b>Practical exam</b>			
14-18	<b>Final written &amp; oral</b>			
	<b>Practical syllabus</b>			
1.	Introduction to Seeds	2		1
2.	Macro- and Microscopical examination of Linseed seeds	2		1
3.	Macro- and Microscopical examination of Nux Vomica and Nutmeg seeds.	2		1
4.	Macro- and Microscopical examination examination of powdered Fenugreek seeds.	2		1
5.	Macro- and Microscopical examination of Cardamom and Black Mustard seeds.	2		1
6.	Introduction to Fruits	2		1
7.	<b>Med-term</b>			
8.	Macro- and Microscopical examination of Fennel, Anise fruits.	2		1
9.	Macro- and Microscopical examination of Cumin and Caraway and Coriander fruits.	2		1
10.	Macro- and Microscopical examination of Ammi visnaga, and Colocynth fruits.	2		1
11.	Macro- and Microscopical examination of Capsicum and Black pepper fruits..	2		1
12.	<b>Sheet + Revision</b>			
13.	<b>Final practical exam</b>			

**5- Teaching and learning Methods:**

5.1	Lectures using white board and data show.
5.2	Practical session using laboratory equipment
5.3	Research assignments
5.4	Case study



## 5.5 Discussion session

### 6- Student Assessment:

#### a- Assessment methods:

<b>1-Written exam</b>	To assess understanding, intellectual, professional
<b>2-Practical exam</b>	To assess professional and practical skills
<b>3-Oral</b>	To assess Knowledge, understanding, intellectual skills, general skills and confidence
<b>4-Quizzes</b>	To assess Knowledge, understanding and intellectual skills
<b>5-Case study</b>	To assess the skills of problem-solving and date presentation
<b>Reports</b>	

#### b- Assessment schedule

<b>Assessment 1</b>	<b>Practical</b>	<b>13<sup>th</sup> week</b>
<b>Assessment 2</b>	<b>Quiz</b>	<b>12<sup>th</sup> week</b>
<b>Assessment 3</b>	<b>Mid-term</b>	<b>7<sup>th</sup> week</b>
<b>Assessment 4</b>	<b>Oral</b>	<b>15<sup>th</sup> week</b>
<b>Assessment 5</b>	<b>Written</b>	<b>15<sup>th</sup> week</b>

#### c- Weighting of assessments

<b>1</b>	<b>Mid-term examination</b>	<b>10 %</b>
<b>2</b>	<b>Final-term examination</b>	<b>50 %</b>
<b>3</b>	<b>Oral examination</b>	<b>15 %</b>
<b>4</b>	<b>Practical examination &amp; Semester work</b>	<b>25 %</b>
<b>5</b>	<b>Other types of assessment</b>	<b>0 %</b>
<b>Total</b>		<b>100%</b>

### 7 - List of References

<b>N0.</b>	<b>Reference</b>	<b>type</b>
<b>1</b>	Pharmacognosy 2 by staff members of Pharmacognosy.	Course notes
<b>2</b>	Evans, W.C. "Trease and Evans Pharmacognosy" Saunders, London, New York, Sydney, Toronto, 2002	Books
<b>3</b>	Jackson, B.P. and Snowdon, D.W. "Powdered vegetable drugs" Stanley Thornes LTd., London, 2007.	Books



4	Down, D. "Encyclopedia of Herbs and their uses" The Herb Society of America, Dorling, Kidersley, London, New York, Stuttgart, 1995.	Books
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### 8- 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.	Medicinal seeds as Nux vomica, Linseed, Strophanthus.	1	a1,a2	b1	c1	d1,d2
2.	Medicinal seeds as Foenugreek, Black mustard, Cardamom.	1	a1,a2	b1,b2	c1,c2	d1,d2
3.	Medicinal seeds as Nutmeg, Colchicum, Psyllium.	1	a1,a2	b2	c1, c2	d1,d2
4.	Medicinal unofficial seeds (e.g. Areca, Coffea rosta, Calabar bean, Ricinus, Cocoa seeds).	1	a1,a2	b1	c1	d1,d2
5.	Medicinal fruits as Umbelliferous fruits (Fennel, Anise, Caraway, Coriander.	1	a1,a2	b1, b2	c1, c2	d1,d2
6.	Medicinal fruits as Ammi visnaga, Ammi majus), Capsicum fruit, Colocynth fruit.	1	a1,a2	b2	c1, c2	d1,d2
7.	<b>Med-term</b>					
8.	Medicinal fruits as Senna fruit, Bitter orange peel, Lemon	1	a1,a2	b1	c1	d1,d2
9.	Medicinal unofficial fruits (e.g. Cummin, Dill, Hemlock, black pepper and Cubebs).	1	a1,a2	b1, b2	c1, c2	d1,d2
10.	Medicinal herbs as Lobelia, Mentha, Thymus.	1	a1,a2	b2	c1, c2	d1,d2
11.	Medicinal herbs as Lavander, Hyoscyamus.	1	a1,a2	b1	c1	d1,d2



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12.	Medicinal herbs as Cannabis, Ergot.	as	1	a1,a2	b1, b2	c1, c2	d1,d2
13.	Medicinal herbs as Catharanthus and Ephedra herbs.	and	1	a1,a2	b2	c1, c2	d1,d2

Course Coordinator :	Mona G. Zaghloul
Head of department	Mona G. Zaghloul