



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:

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| 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

c1	Apply different qualitative and microscopical methods for identification of raw materials.
c2	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

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

4- Contents :-

Week No	Topics	No.of hours	Lecture credit hours	Practical credit hours
1.	Medicinal seeds as Nux vomica, Linseed, Strophanthus.	2	2	
2.	Medicinal seeds as Foenugreek, Black mustard, Cardamom.	2	2	
3.	Medicinal seeds as Nutmeg, Colchicum, Psyllium.	2	2	
4.	Medicinal unofficial seeds (e.g. Areca, Coffea rosta, Calabar bean, Ricinus, Cocoa seeds).	2	2	
5.	Medicinal fruits as Umbelliferous fruits (Fennel, Anise, Caraway, Coriander.	2	2	
6.	Medicinal fruits as Ammi visnaga, Ammi majus), Capsicum fruit, Colocynth fruit.	2	2	
7.	Week 7th Med-term Exam			
8.	Medicinal fruits as Senna fruit, Bitter orange peel, Lemon	2	2	
9.	Medicinal unofficial fruits (e.g. Cummin, Dill, Hemlock, black pepper and Cubebs).	2	2	
10.	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.	Practical exam			
14-18	Final written & oral			
	Practical syllabus			
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.	Med-term			
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.	Sheet + Revision			
13.	Final practical exam			

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



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5.5 Discussion session

6- Student Assessment:

a- Assessment methods:

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

b- Assessment schedule

Assessment 1	Practical	13th week
Assessment 2	Quiz	12th week
Assessment 3	Mid-term	7th week
Assessment 4	Oral	15th week
Assessment 5	Written	15th week

c- Weighting of assessments

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

7 - List of References

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



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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.	Med-term					
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.	1	a1,a2	b1, b2	c1, c2	d1,d2
13.	Medicinal herbs as Catharanthus and Ephedra herbs.	1	a1,a2	b2	c1, c2	d1,d2

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