



Course Specification
2020- 2021
Pharm D Program
Faculty of Pharmacy
Mansoura University



بكالوريوس الصيدلة (فارم د – Pharm D)

Course Specification

Academic year: 2020/2021

Course name: PG101	اسم المقرر : النبات والنباتات الطبية
Academic Level: First academic level	المستوى الأكاديمي : الاول
Scientific department: Pharmacognosy	القسم العلمي : العقاقير
Head of Department: Prof. Dr. Mona G. Zaghloul	رئيس القسم :أ.د./ منى جودة زغلول
Course Coordinator: Prof. Dr. Ahmed A. Gohar	منسق المقرر : أ.د./ أحمد ابوالغيط جوهر



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University	Mansoura
Faculty	Pharmacy
Department offering the course	Pharmacognosy
Department supervising the course	للمقررات من خارج الكلية
Program on which the course is given	Bachelor in Pharmacy -Pharm D
Academic Level	First or second only
Date of course specification approval	مجلس قسم شهر 9 أو 10

1- Basic Information : Course data :

Course Title	Botany and medicinal plants
Course Code	PG111
Prerequisite	no
Teaching Hours: Lecture	2
Practical:	1
Total Credit Hours	3 (Credit H)

2- Course Aims:

- 1- The course affords students the principles to understand the classifications and identification of different plants on the cellular, tissues and entire levels.
- 2- The course provides students with the basic knowledge of plant minerals, enzymes, photosynthesis, respiration and protein synthesis that help him to understand plant secondary metabolism in addition to the basic concept of pharmacognosy

3- Course Learning Outcomes

Upon completing the course, the student will be able to dominate the following key elements



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DOMAIN 1- FUNDAMENTAL KNOWLEDGE

(1.1.3)	Combine the principles of fundamental botany to handle and identify natural drugs
(1.1.6)	Retrieve, and analyze the basic facts important for the plant primary metabolism, plant secondary metabolites and the concepts of pharmacognosy

DOMAIN 2: PROFESSIONAL AND ETHICAL PRACTICE

(2.2.1)	Identify of pharmaceutical materials from natural origins.
(2.3.1)	Select, and apply appropriate methods and procedures and resources for handling and disposal of natural <i>materials</i> used in pharmacy
(2.5.3)	Apply scientific principles of research and scholarly investigation and use systematic approaches in the search for best available evidence.

DOMAIN 3: PHARMACEUTICAL CARE

(3.2.6)	Establish public awareness on rational use of natural drugs and safe handling of hazardous products to minimize personal exposure and reducing environmental contamination.
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DOMAIN 4: PERSONAL PRACTICE

(4.1.1)	Share decision-making activities with other team members and apply effective time management skills.
(4.2.1)	Use clear language, pace, tone and non-verbal communication and writing skills when dealing with, other team and communities.
(4-2-2)	Apply artificial technology whenever possible to present relevant information.

4- Course Contents



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Week No.	Topics	Hours
1	Plant cell structure and function	2
2	Plant tissues	2
3	Secretory structures	2
4	Principal anatomical structure of higher plants	2
5	Basis of classification of plant kingdom	2
6	Some important plant families (from medicinal point of view)	2
7	Minerals and Enzymes	2
8	Photosynthesis and Respiration	2
9	Photosynthesis and Respiration (cont.)	1
10	Nitrogen metabolism	1
11	Introduction to pharmacognosy	2
Week No.	Practical topics	hours
1	Microscopy and Plant cells	1
2	Ergastic cell substances	1
3	Deremal tissue	1
4	Ground tissue	1
5	Vascular tissue	1
6	Leaf anatomy	1
7	Stem and Root anatomy	1
8	Taxonomy of medicinally important Plant Families	1
9	Examination of Dusting Powders	1
10	Physiology of Plant cell	1



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5- Teaching and Learning Methods:

5.1	Lectures using Power point (PPT) presentations
5.2	Lectures using whiteboard
5.3	Practical Training / Laboratory
5.4	Formative Assignments

6- Student Assessment:

a- Assessment Methods:

1-Written exam	To assess understanding, intellectual, professional skills
2-Practical exam	To assess professional and practical skills
3-Oral	To assess Knowledge, understanding, intellectual skills, Personal skills
4-Case study	
Formative Assessment	To assess understanding, intellectual, professional skills

a- Assessment schedule

Assessment 1	Mid-term	7 th week
Assessment 2	Practical	11 th week
Assessment 3	Written	15 th week
Assessment 4	Oral	15 th week
Other assessment		

b- Weighing of assessments

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

7- Facilities required for teaching and learning

-Class room	Data show- Computers, Internet.
- Laboratory facilities	Microscopes, equipment, tools.....



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- Library
Others	

8- Matrix of knowledge and skills of the course

No.	Course contents	Study Week	Outcomes										
			Domains / K elements										
			D: 1			Domain: 2				Domain 3		Domain: 4	
1.	Anatomy	1-4	1.1.3	2.3.1	2.4.4	2.5.3				3.2.6		4.2.1	4.2.2
2.	Taxonomy	5-7	1.1.6		2.2.1	2.4.4	2.5.3			3.2.6		4.1.1	
3.	Dusting Powder	8	1.1.3	2.3.1	2.4.4	2.5.3				3.2.6		4.2.2	
4.	Physiology and into	9-11	1.1.3		2.2.1	2.4.4	2.5.3			3.2.6		4.21	

9- List of References

No	Reference	Type
1.	Introduction to medicinal plants, Medicinal plants practical notes	Course notes
2.	Charles, B.B., An introduction to the plant structure and development, Cambridge University Press, 2005	Essential Book
3.	Goodwin, T. W., Mercer E. I., Introduction to Plant Biochemistry, 2nd edition, Pergamon;, 1990.	Supplementary Textbooks
4.	https://www.encyclopedia.com/social-sciences/applied-and-social-sciences-magazines/plant-anatomy . November, 2020	websites

Course Coordinator
Head of Department

Prof. Dr. Ahmed Abu El-Ghait Gohar
Prof: Mona Goda Zaghoul

Date: 24 / 11 / 2020