Academic year 2018/2019

University of Beni- Suef College of Pharmacy Quality Assurance Unit



جامعة بني سويف كلية الصيدلة وحدة ضمان الجودة

Course Specifications

University	Beni-Suef
Faculty	Pharmacy
Dept.	Pharmacognosy

1-Course Info.			9
Programme(s) on which the course is given: Bachelor in Pharmacy			y
Course Name and code No.: Botany and Medicinal Plants /201			
Academic year/ Level: 2018-2019, level 1, semester 1			
Credit hours: Lecture	(2) hour	+ Practical (1) hour	. 0

2-Overall Aim of the Course

To provide students with the knowledge necessary to prepare a crude drug from the farm to the firm. The students should also acquire the knowledge and skills necessary to recognize and identify leaf-drugs in entire and powdered forms. Test different secondary metabolite and differentiate between plant classes.

3-Intended Learning Outcomes of the course (ILOs)

- a. Knowledge and understanding
- **a.1-** Define different botanical terms
- **a.2-** Identify morphological and histological characters of drugs composed of leaves.
- **a.3** Identify different classes of secondary metabolite, their uses and chemical tests.
- **a.4** List different methods of collection, drying, packing and preservation of medicinal plants that ensure their maximum level of active constituents.
- a.5 Differentiate between plant classes.

b. Professional and Practical Skills

- **b.1** Use microscope effectively in examination of starches, dusting powders and powdered medicinal leaves.
- **b.2-** Test for different secondary metabolites
- **b.3-** Describe the morphology and histology of a given leaf drug either in entire or powdered form
- **b.4-** Acquire computer skill through e-learning course.
- c. Intellectual Skills
- c.1- Choose a proper natural drug for treatment of a given case taking in consideration the patient

Academic year 2018/2019

University of Beni- Suef College of Pharmacy Quality Assurance Unit



كلية الصيدلة وحدة ضمان الجودة

history.

c.2- Compare between different secondary metabolites

d. General and Transferable Skills

- d.1. demonstrate written and oral communication and IT skills
- d.2. work effectively in a team.

4-Course Contents				
	No. of hours			
Topics	Tutorial / Practical	Lecture		
General Introduction, crude drug, Natural Products	-	2		
Cultivation of medicinal plants, environmental conditions, soil contents, growth regulators	7.	2		
Collection and drying of medicinal plants	* D-> /	2		
packing and preservation of drugs adulteration and their detection	4	2		
Secondary plant metabolites	-	4		
Explanation and handling of microscope	1	-		
Examination of different starches: potato, wheat, maize, rice	1	-		
Examination of different dusting powders: Kiesleguhr, talc, kaolin, bentonite, sulphur, chalk	1	-		
Hairs, Ca oxalates Stomata, secretary structures	2	1		
Introduction to drugs composed of leaves	1	1		
Senna leaf, boldo, jaborandi, buchu	1	2		
Transverse section of leaves	1	2		
Solanaceous leaves: Belladonna, Stramonium, Hyoscyamus	1	2		
Digitalis and Henna, ginkgo, guava, eucalyptus, olive leaf	1	2		
Taxonomy	-	2		
Revision and practical assessments	2	-		
Total	12	24		

o- Teaching and learning Methods

- 5.1. Lectures
- 5.2. Practical sessions
- 5.3. Field visit
- E-learning course 5.4.

7- Student Assessment Methods

Academic year 2018/2019

University of Beni- Suef College of Pharmacy Quality Assurance Unit



جامعة بني سويف كلية الصيدلة وحدة ضمان الجودة

a-Methods

- Written sheets to assess knowledge, understanding and higher intellectual skills of the student.
- Practical exam to assess professional skills acquired by the student.
- Oral exam to assess communication skills of the students
- E-learning course and assignments

b- Assessment Schedule

Type of Assessment	Weak
assignments	7-12
Practical exam	12
Final Written exam	14-16
Final Oral exam	14-16

c- Weighting of Assessment Marks

Type of Assessment	Marks	Weight (%)
Practical exam	50	33.33%
Final Written exam	80	53.3333%
Final Oral exam	20	13.33333%
Total	150	100%

8-List of References

a. Notes

a. Course Notes "Botany and Medicinal Plants" for first year pharmacy students by first year staff members.

b. Mandatory Books

b. Suggested Books

Trease and Evans Pharmacognosy, W.C. Evans, 14th edition.

d. Journals and websites

Faculty channel on Youtube:

http://www.youtube.com/channel/UCGosHkjqHWFRrbY99FYvS7g.

Google classroom: https://classroom.google.com/c/NzgzMDU4NDA5N1pa

e-learning website: http://cms2.nelc.edu.eg/login/index.php

Course Coordinator: Ass. Prof. Abeer Moawad

Head of department: Prof Dr. Sameh Abo Zaid **Date:** 9-2018

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