

بامعة البلقاء التطبيقية

تأسست نماء 1997

Paramedical program				
Specialization	Pharmacy			
Course number	020805241			
Course title	Pharmacognosy			
Credit hours	2			
Theoretical hours	2			
Practical hours	0			

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Brief Course Description:

Definition, history, and scope of medicinal plants, studying plants of medicinal importance, medicinal plants name, family, used parts, systems of medicinal plants classification, active ingredients and clinical uses.

Course Objectives:

Upon the completion of the course, the student will be able to:

- 1. 1. Know medicinal plants and their used parts
- 2. to identify active ingredients in medical plants
- 3. Know medicinal plants therapeutic uses
- 4. to Know the classification of active ingredients

according to their chemical structure

5. to get acquainted with Resins and balsams.



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Detailed Course Description:

Unit number	Unit name	Unit content	Time needed
1.	Introduction	 Definitions: crude drug, advanced crude drug, allopathic medicine, alternative medicine Historical briefing on medicinal plants, and its development till now Classification, indigenous and cultivated plants, factors involved in production of plants, official drugs. 	
2.	Leaves	 Photosynthesis Physical Identification of leaves examples (Digitalis, Tea, Coca, Jaborandi, Buchu, Senna, Eucalyptus, Tobacco, Rosemary, Henna, Thyme, Khat, Peppermint, Sage, Belladonna, and Bearberry leaves). 	
3.	Flowers	 Physical Identification of Flower Examples(Chamomiles, Clove, Lavender, and Saffron) 	
4.	Fruits	 Physical Identification of fruits Examples (Anise, Fennel, Caraway, Cumin, Coriander, Vanilla, Cardamom, Capsicum, Lemon, and papaver fruits). 	
5.	Seeds	 Physical Identification of seeds Examples (Sweet almond, Bitter almond, Soya, Black mustard, White mustard, Calabar beans, Nux vomica, Castor, Cotton, Sesame, Nutmeg, Fenugreek, Cola, Coffee, Linen, and Coco seeds). 	
6.	Barks and Woods	 Physical Identification, Difference between them. Examples (Cinnamon, Cascara, Wild cherry, Pomegranate, Cinchona, Hamamelis, Sandal, Guaiacum, Quillaia, and Quassia woods). 	

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7.	Subterranean organs	 Roots, Rhizomes and bulbs, Physical Identification, Difference between them Examples (Rhaburb, Licorice, Ginger, Ipeca quanna, Rawolfia, Squill, and Garlic) 	
8.	Herbs	 Peppermint, Belladonna, Indian hemp, and Indian tobacco. 	
9.	Unorganized parts	 Dried juice (Aloe) Dried extract (Opium, Agar) Gums (Acacia, Tragaconth.) 	
10.	Plant Powders	 (Locopodium) Kamala, lopulin, and Gowa powders. 	

Evaluation Strategies:

Exams	Percentage	Date
Mid Exam	40%	//
Final Exam	50%	//
Homework and Projects Discussions and lecture Presentations	10%	//

Teaching language:

• English

Teaching Methodology:

Lectures,

Text Books & References:

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- 1- . Pharmacognosy Trease and Evans. 16th Edition, 2009, Published by ELBS, London ISBN 978-0702029332 2.
- 2- Drugs of Natural Origin, 6th edition 2010 Gunnar Samuelsson.
- 3- Medicinal natural products, a biosynthetic approach, 3rd edition, 2009 Paul Dewick, John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, United Kingdom, ISBN 0 471 49640 3.
- 4- Pharmacognosy, phytochemistry, Medicinal Plants. 2nd edition Jean Bruneton: Springer Verlag, 2008, ISBN: 1898298130, 2743000287