



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

OF02/0408-4.0E

Study Plan No.	2021/2022		University Special	lization	Bachelor of P	harmacy
Course No.	0201442		Course Name		Phytothe	rapy
Credit Hours	2		Prerequisite *Co-requisite		Pharmacol + Chemistry o Produc	of Natural
Course Type	☐ Mand atory Unive rsity Requi remen t	☐ Univer sity Electiv e Requi remen t	☐ Faculty Mandatory Requiremen t	☐ Support course family requirem ents	☑ Mandat ory Require ment	□ Electi ve Requi remen t
Teaching Style	□ Full Online	Learning	☑ Blended	Learning	☐ Traditional	Learning
Teaching Model	☐ 1 Synchro Asynchr			to Face: 1 hronous	□ 2 Tr	aditional

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.	E-mail	
Office Hours (Days/Time) Sunday, Tuesday, Thursday ()		y, Thursday ()	Monday	y, Wednesday	0
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Blended Learning	1 Face to Face: 1 Asynchronous

Brief Description

Brief course description

This course is a complimentary of pharmacology and the chemistry of natural products. It gives a basic information about herbal medicine and natural products, including indications, dosing, side effects, contraindications, herb-herb, and herb-drug interactions. Information resources, quality control, and standardization of herbal products are also included.

Learning Resources

Course Book Information (Title, author, date of issue, publisher etc)	1. Fundamentals of pharmacognosy and phytotherapy, 3 rd edition. Michael Heinrich, Joanne Barnes, Simon Gibbons Elizabeth M. Williamson. Elsevier, 2018.
Supportive Learning Resources	 Phytotherapy for pharmacy students, a textbook for pharmacy students, Dr. Dezső Csupor, University of Szeged, 2015. Mosby's Handbook of Herbs & Natural Supplements. 4th Edition by Linda Skidmore-Roth. RN, MSN, NP, 2010.
(Books, databases, periodicals, software, applications, others)	 Herbal Medicines, Joanne Barnes, Linda A. Anderson and J. David Phillipson, Third Edition, ISBN 978 0 85369 623 0, 2008, RPS Publishing, UK. Pharmacotherapy Casebook: A Patient-Focused Approach, 10th edition





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	Terry L. Schwinghammer, Julia M. Koehler, Jill S. Borchert, Douglas				
	Slain, Sharon K. Park.				
	6. National Center for Complementary and Integrative Health, National				
	Institutes of Health (NIH). Available online at https://nccih.nih.gov				
	7. Natural Medici	nes Comprehensive	e Database:		
	http://www.nat	uraldatabase.com			
	8. Medline Plus, t	he U.S. National La	ibrary of Medicine, N	National Institute of	
			nedlineplus/druginfo/		
			://abc.herbalgram.org	_	
			Information and Adv	_	
		•	/medwatchThe WHO		
		_	pps.who.int/medicine		
		1 -1	*		
Supporting Websites					
The Physical	☑ Class	□ Labs	☑ Virtual	□ Others	
Environment for	room		Educationa		
Teaching	DC/1	1 11 1	l Platform		
	- PC/laptop with headphones and camera.				
Necessary Equipment	- Microsoft Office.				
and Software	- Microsoft Tear	ns.			
	- Moodle.				
	- Zoom.				
Supporting People with Special Needs					
E-Learning & Open Educational Resources Center					
For Technical Support	E-Learning & Ope	en Educational Reso	ources Center.		

Course learning outcomes (K= Knowledge, S= Skills, C= Competencies)

No.	Course Learning Outcomes	The Associated Program Learning Output Code			
	Knowledge				
K1	Recognize different types of complementary and alternative medicine including phytotherapy.	MK3			
K2	Describe different regulations of herbal medicines in Jordan and worldwide.	MK3			
К3	Give original examples of drugs from natural sources available in the local market for treatment of different disorders.	MK3			
	Skills				
S1	Categorize natural products based on therapeutic outcome.	MS2			
S2	Illustrate the indications of herbal medicines, dosage, side effects, common herb-drug interactions, contraindications, precautions, and use during pregnancy and lactation	MS2			
	Competencies				
C1	Develop professional and personal performance by continuously following-up lectures, submitting tasks on time, and staying up to date with the latest natural drug information.	МС3			
C2	Collaborate effectively with team members to achieve shared goals.	MC3			





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Mechanisms for Direct Evaluation of Learning Outcomes

Type of Assessment / Learning Style	Fully Electronic Learning	Blended Learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm Exam	30%	30%	30%	0%
Participation / Practical Applications	0%	0%	20%	50%
Asynchronous Interactive Activities	20%	20%	0%	0%
Final Exam	50%	50%	50%	50%

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, and work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

Schedule of Simultaneous / Face-to-Face Encounters and their Topics

Week	Subject	Learning Style*	Reference **
1-3	 Introduction to Phytotherapy Fundamentals of phytotherapy Quality control and standardization of herbal medicines Evidence Based Medicine Herbal formulations Herb-drug interactions 	Lectures	Chapter 10 (162-172) Chapter 11 (173-178)
4-5	Herbal therapy for the Cardiovascular System Disorders. • Heart Failure: Foxglove and Hawthorn. • Hypertension: Hawthorn, Garlic, Valerian and Rauwolfia. • Chronic Venous Insufficiency: Horse chestnut and Butcher's broom.	Lectures	Chapter 21 (250-258)





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6-7	 Herbal therapy for Central Nervous System Disorders. Anxiety, sleeping disorders: Valerian, Hop and Lavender, Lemon-balm, Passionflower, Oat and Motherwort. Depression: St. John's wort. Migraine: Feverfew and Aroma therapy. 	Lectures	Chapter 23 (273-285)
8-9	Herbal therapy for Genitourinary System Disorders. Infections of the urinary tract: Bearberry, Juniper, Goldenrod, Parsley and Java tea. Benign prostatic hyperplasia: Saw palmetto, Pumpkin and Nettle. Midterm Exam	Lectures	Chapter 24 (286-294) Chapter 25 (301-305)
10- 12	Herbal therapy for Gastrointestinal System Disorders. Carminatives: Caraway, Fennel and Peppermint. Loss of appetite: Wormwood, Centaury and Fenugreek. Bulk-forming laxatives: Linseed Stimulant laxatives: Senna, Aloe, Cascara, Frangula and Rhubarb.	Lectures	Chapter 20 (235-249)
13-14	Herbal therapy for Respiratory System Disorders. • Dry cough: Marshmallow and Iceland moss. • Productive cough: Ivy and Thyme, Eucalyptus and Licorice/liquorice.	Lectures	Chapter 22 (259-272)
15	Herbal Therapy for Dermatological Disorders: • Aloe Vera, Evening Primrose oil, and Witch Hazel.	Lectures	Chapter 28 (318-325)
16	F	inal Exam	

^{*} Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

^{**} Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.





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Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)

Week	Task / Activity	Reference	Expected Results
1-3	Assignment about herbal regulations in Jordan	JFDA website	Answer the assignment questions by reference
			to an official website.
4-5	Group presentation about drugs from natural sources available in the local market for treatment of cardiovascular system disorders	Different Resources	Prepare a scientific presentation accompanied with a brief explanation record by collaborating with group members.
6-7	Group presentation about drugs from natural sources available in the local market for treatment of central nervous system disorders.	Different Resources	Prepare a scientific presentation accompanied with a brief explanation record by collaborating with group members.
8-9	Group presentation about drugs from natural sources available in the local market for treatment of genitourinary system disorders.	Different Resources	Prepare a scientific presentation accompanied with a brief explanation record by collaborating with group members.
10-12	Group presentation about drugs from natural sources available in the local market for treatment of gastrointestinal system disorders.	Different Resources	Prepare a scientific presentation accompanied with a brief explanation record by collaborating with group members.
13-14	Group presentation about drugs from natural sources available in the local market for treatment of respiratory system disorders.	Different Resources	Prepare a scientific presentation accompanied with a brief explanation record by collaborating with group members.