



Jordan University of Science and Technology

Faculty of Pharmacy

Doctor Of Pharmacy (Pharm D.) Department

PHMD431 Phytotherapy (For Pharm D Students) - JNQF Level: 7

First Semester 2024-2025

Course Catalog

3 Credit Hours. This course provides students with an introduction to herbal medicine and products. This includes indications, proper dosing, precautions, contraindications, herb-herb, and herb-drug interactions. Reliable information resources, regulatory status, quality control, and standardization of herbal products are also discussed.

Teaching Method: On Campus

Text Book

Title	Fundamentals of Pharmacognosy and Phytotherapy
Author(s)	Michael Heinrich, Joanne Barnes, Simon Gibbons, Elizabeth M. Williamson
Edition	4th Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Rational Phytotherapy	V. Schulz, R. Haensel, M. Blumenthal and VE Tyler	5th Edition	
Ref #3	Herbal Medicines	Joanne Barnes, Linda A. Anderson, and J. David Phillipson	3rd Edition	
Ref #4	The ABC Clinical Guide to Herbs	M. Blumenthal	1st Edition	
Ref #5	Textbook of Natural Medicine	Joseph E. Pizzorno and Michael T. Murray	5th Edition	
Ref #6	Catalogue of Life	NA	1st Edition	
Ref #7	WFO Plant List	NA	1st Edition	
Ref #8	National Center for Complementary and Integrative Health, National Institutes of Health (NIH)	NA	1st Edition	
Ref #9	Medline Plus, the U.S. National Library of Medicine, National Institute of Health	NA	1st Edition	
Ref #10	American Botanical Council	NA	1st Edition	
Ref #11	The WHO monographs on selected medicinal plants	NA	1st Edition	
Ref #12	FDA Medwatch, The FDA Safety Information and Adverse Event Reporting Program	NA	1st Edition	

Class Schedule & Room

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3	Introduction: a) Fundamentals of phytotherapy b) Regulation and pharmacovigilance for herbal medicines c) Quality control and standardization of herbal medicines d) Reliable sources of information about dietary supplements and herbal products e) Herb-drug interactions	From Ref #1, From Ref #2
Week 4	The digestive system: Starch, Caraway, Fennel, Cumin, Ginger, Peppermint, Chamomile, Green and Black Tea, Linseed (Flaxseed), Wheat Bran, Senna, Milk Thistle, and Probiotics	From Ref #1
Week 5	The respiratory system and immuno-stimulants: Elderflowers, Linden Flowers, Menthol/peppermint oil, Camphor, Eucalyptus oil, Thyme and Thyme oil, Ivy leaf, Bee products, and Echinacea	From Ref #1
Week 5	The musculoskeletal system: Turmeric, Willow bark, Glucosamine, Chondroitin, Capsicum	From Ref #1
Week 6	The urinary system: Saw palmetto, Cranberry, Nettle, and Pumpkin seed	From Ref #1
Weeks 6, 7	The central nervous system: Ginkgo, St. John's wort, Kava, Valerian, Aromatherapy, Passionflower, Melatonin, and Feverfew	From Ref #1
Week 7	The cardiovascular system: Foxglove, Hawthorn, Horse Chestnut, and Garlic	From Ref #1
Week 8	The skin: Aloe vera, Hydrocotyle, and Pyrethrum	From Ref #1
Week 8	The endocrine system: Fenugreek, Soya, Black cohosh	From Ref #1
Week 8	Weight loss products: Bitter orange, Chilli peppers, Green coffee bean, and Hoodia	From Ref #1
Week 8	Herbal products increasing resistance to disease: Ginseng and Grape seed	From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate the basic scientific principles underlying the use of phytotherapeutics; the quality assessment of finished herbal products, and different regulations of herbal medicines in Jordan and worldwide [1PLO1.1] [1L7K1, 1L7S1]	20%	
Illustrate the indications of herbal medicines, dosage, side effects, common herb-drug interactions, contraindications, precautions, and use during pregnancy and lactation [1PLO2.3] [1L7K1, 1L7S2]	45%	
Differentiate between the different active constituents of medicinal plants, parts used, and their common names [1PLO1.1] [1L7K1]	15%	
Apply effectively the concept of rational phytotherapy to the counseling of patients [1PLO2.1] [1L7S2, 1L7C2]	20%	

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.2	PLO3.3	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
35	20		45												

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C2
47.5	10	32.5	10

Evaluation	
Assessment Tool	Weight
First Exam	27%
Second Exam	27%
Active Learning	6%
Final Exam	40%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the dean
Cheating	Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة أ- اعتباره راسباً في ذلك الامتحان أو الاختبار ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه
Attendance	Excellent attendance is expected. JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 10% of the classes that are not excused. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Participation	Excellent participation is expected
Withdraw	Last day of course withdrawal (without reimbursement of tuition fees): Friday 2024/09/06
Classroom/ Cell phones/ Policy	o The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission. o Except in emergencies, those using such devices must leave the classroom for the remainder of the class period.

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