



Jerash University
Faculty of pharmacy
Department of pharmaceutical science

Course Syllabus

Course Title: Phytotherapy	Course code: 1101542
Course Level: 5th year	Course prerequisite (s) and/or co requisite(s): Pharmacognosy and Phytochemistry
Lecture Time: S+T 11:00 - 12:30 & M+W 14:00-15:30	Credit hours: 3 hours

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Dr. Abdel Hadi Al Jafari	Doctor	Office (412) Faculty of Pharmacy, Phone (504)	11:00 – 13:00	abdelhadi.aljafari@jpu.edu.jo

Course module description:

Phytotherapy is the medical science that use plants and plant extracts for therapeutic purposes. A possible differentiation with herbalism is that phytotherapy require constituents in the plant extract to be standardized by adhering to a minimum content of one or several active compounds in the therapeutic product.

Course module objectives:

At the end of this module, students will be able to:

- Differentiate between different medicinal plants, their names and uses.
- Identify the main constituents of each medicinal plant and their uses.
- Standardization and Regulation
- Herbal Formulation and extractions
- Recognize the structure of active compounds.
- To recognize the indications, contraindications, adverse effects, toxiciteis and posology of each medicinal plant.

Course/ module components:

- Text book:

1st Book is Fundamentals of Pharmacognosy and Phytotherapy

2nd edition by

**Michael Heinrich, Joanne Barnes, Simon Gibbons
and Elizabeth M Williamson.**

2nd Book is Herbal medicines 3rd edition by

**Joanne Barnes
J. David Phillipson
Linda A. Anderson**

References:

- Support material.
- Study guide.
- Homework and laboratory guide.

Teaching methods:

Lectures, seminar, tutorials, using seminars provided with data show for colored photos and instrument, in addition to case study.

Assessment instruments

- Short reports and/ or presentations, and/ or Short research projects
- Quizzes.
- Home works
- Final examination: 40 marks

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20%
Second examination	20%
Final examination: 50 marks	40%
Reports, research projects, Quizzes, Home works, Projects	20%
Total	100%

Documentation and academic honesty

- Documentation style (with illustrative examples)
- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

Week	Basic and support material to be covered
(1)	Introduction, concept, bibliography and history
(2)	Natural products and chemical classification
(3)	The gastrointestinal and biliary system (Diarrhea, constipation, inflammatory GI conditions, gastritis and ulcers, dyspepsia and biliousness, nausea and vomiting, irritable bowel syndrome, bloating and flatulence)
(4)	The cardiovascular system (Heart failure and arrhythmias, venous insufficiency and circulatory disorders, antiplatelet and anti-atherosclerotic drugs)
(5)	The respiratory system (Bronchodilators and decongestants, anti-allergics, expectorants and mucolytics, cough suppressants, demulcents and emollients, general phytochemicals used in colds and influenza, and immune-stimulants)
(6)	First examination
(7)	The nervous system (Hypnotics and sedatives, antidepressants, stimulants, analgesics, drugs used for cognitive enhancement and in dementia)
(8)	Infectious diseases (Broad-spectrum antimicrobial agents, single chemical entity and novel plant antibacterial, antiprotozoal agents and insecticidal agents)
(9)	The endocrine system (Hypoglycaemic and antidiabetic herbs, phytoestrogens, hormonal imbalance in women and benign prostatic hyperplasia)
(10)	The reproductive tract (Phytochemicals in childbirth and male sexual dysfunction)
(11)	Second examination
(12)	The musculoskeletal system (Drugs used in arthritis, rheumatism and muscle pain, drugs used in Gout, topical anti-inflammatory agents and nocturnal leg cramps)
(13)	The skin and the eye (Dry/itchy skin conditions and eczema, inflammatory skin conditions and wound healing, inflammatory of the eye, glaucoma and anterior uveitis)
(14)	The ear, nose and oropharynx
(15)	Supportive therapies for stress, ageing (Cancer chemoprevention and debility, tonics, stimulants and adaptogens)
(16)	Final Examination

Expected workload:

On average students need to spend 1 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Other references

1. Trease and Evans' Pharmacognosy

By W C Evans, 16th Edition (2009). Saunders; ISBN: 978-0-7020-2933-2

2. Complementary Therapies for Pharmacists

By Steven B Kayne (2002). Pharmaceutical Press; ISBN: 0 853694303

3. Pharmacognosy & Phytochemistry

By Biren N. Shah & A.K. Seth (2014), English 2nd edition. Elsevier Publishing, ISBN: 978-81-312-3458-7