The Hashemite University

Faculty of Pharmaceutical Sciences

الجامعــة الهاشميــة

كلية العلوم الصيدلانية

Syllabus

Phytotherapy (131702474)

First Semester 2024 /2025

COURSE INFORMATION	
Course Name: Phytotherapy (Online) **Semester: First** **Department: Clinical pharmacy and pharmacy practice** **Faculty: Pharmaceutical Sciences**	**Course Code: 131702474** **Section: per semester** **Core Curriculum: 2013 Study Plan**
Day(s) and Time(s): According to HU course timetable/semester **Classroom: As per semester**	**Credit Hours: 2** **Prerequisites: 1317031313**
COURSE DESCRIPTION	
This course aims to introduce the student to the phytochemical and natural drugs that has been registered internationally and nationally, in addition, the student will be introduced to the medicinal plants used to treat various disorders such as the disorders related to the GI tract, the nervous system, the cardiovascular system the autonomic system, the skin and the endocrine system. This course will emphasize on the duration of drug use, drug-drug interactions and side effects related to the use of the medicinal plants. In addition to that the student will learn more about the use of hallucinogenic plants, their toxicity and side effects related to these plants with emphasis on the plants that habitat in the Jordanian environment.	
DELIVERY METHODS	

The course will be delivered through active learning strategies. These will include:

- PowerPoint lectures and interactive Microsoft-Teams discussion
- Collaborative learning through small groups acting in an interdisciplinary context.
- Relevant films and Video lectures
- E-learning resources: All recorded lectures are available on moodle, Homework to be submitted through Moodle
- Brain storming

FACULTY INFORMATION	
Name	Dr Iman Mansi
Academic Title:	Associate Professor
Office Location:	Third floor-485
Telephone Number:	Extension: 3444
Email Address:	iman_mansi@hu.edu.jo
Office hour:	As announced per semester

References

1. National Geographic Guide to Medicinal Herbs: The World's Most Effective Healing Plants, National Geographic Society
2. Rational phytotherapy, a physicians' guide to herbal medicine, fourth edition 2001. V Schulz, R Hansel, V.E. Tyler

Other suggestions

http://umm.edu/health/medical/altmed

Any book in Pharmacognosy and phytomedicine

moodle HU
American journal of ethnomedicine
Journal of ethnopharmacology
Moodle HU ASAS

Course Objectives
1. To provide the student with the required information about the role of pharmacists in Complementary Alternative Medicine (CAM).

2. To introduce the student to the phytochemical and natural drugs that has been registered internationally and nationally to treat specific diseases.
3. To teach the students about the Drug-Herb Interactions, and to emphasize the role of the pharmacist in preventing these interactions.
4. To teach the students how to get information about specific plants through an applied project.

Intended Learning Outcomes

A. Foundational knowledge:

A1. Be familiar with phytochemical and natural drugs that are used worldwide to treat several kinds of diseases.

A2. Gain knowledge in several competencies in the area of Complementary Alternative Medicine (CAM) and the role of pharmacist

A3. Understand the role of pharmacist in Complementary Alternative Medicine (CAM)

B. Essential for Practice and Care (Intellectual Skills):

B1. Analyze different cases related to the use of medicinal plants including the drug-Herb interaction that may occur.

B2. Recognize benefits and risks regarding the use of a specific CAM modality.

C. Approach to Practice and Care (competencies)

C1 Know how to consult the patient regarding the effective CAM to prevent, alleviate or complement palliative medicine.

C2 Identify problems and prioritize potential strategies to evaluate the available solutions related to natural products**.**

C3 Educate all audiences by determining the most effective ways to assess patient's understanding regarding the natural products, side effects, overdose and interactions.

ASAS **C4** Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization especially in the topic of natural drugs and products**.**

C5 Examine the personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions of the student that could enhance or limit personal and professional growth regarding his role as a pharmacist and the medication expert in the field of natural products

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities areencouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section:
Tel: 00962-5-3903333 **Extension:** 4209 **Location:** Students Affairs Deanship/ Department of Student Welfare Services **Email**: amalomoush@hu.edu.jo
amalomoush@staff.hu.edu.jo

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A
student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

On average, students must spend 10 hrs of study and preparation weekly. At the beginning of the lectures, be on time and don't leave before the end of the lecture without an accepted excuse. **If you missed a class, you must find out about any announcements or assignments you missed.** For any clarification, please communicate with your instructor at her posted office hour by appointment. Listen well to the lecture, if you have a question, ask your instructor. You will find the course material at the course team after the lecture.

Sharing of course materials is forbidden. No course material including, but not limited to, course outline, lecture hand-outs, videos, exams, and assignments may be shared online or with anyone outside the class. Any suspected unauthorized sharing of materials, will be reported to the university's Legal Affairs Office. If a student violates this restriction, it could lead to student misconduct procedures.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of The Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments orsubmitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism isdetected

Late or Missed Assignments

In all cases of assessment, students who fail to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide amedical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail tosubmit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with university regulations an incomplete grade for the specific assessmentwill be awarded and an alternative assessment or extension can be arranged.

Missed Assessments

In all cases of assessment, students who fail to attend an exam on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a failure
grade for this part of the assessment

- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with university regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Cheating

Cheating, academic disconduct, fabrication and plagiarism will not be tolerated, and the university policy will be applied. Cheating policy: The participation, the commitment of cheating will lead to

applying all following penalties together:

- Failing the subject, he/she cheated at
- Failing the other subjects taken on the same course
- Not allowed to register for the next semester
- The summer semester is not considered as a semester

Student Complaints Policy

Students at Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of evaluation as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Students will be graded through the following means of assessment:

Course Assessment Plan						
Assessment	Grade Weighting	Deadline Assessment	CILOs			
			A	B	C	D
First Exam	25%	3rd-14th Nov.2024	A	B	C	
Second Exam	25%	15-26th Dec.	A	B	C	
Assignment	10%	To be determined	A	B	C	
Final Exam	50%	12-23th Jan.2025	A	B	C	

Description of Exams

Test questions will predominately come from material presented in the lectures and the lectures themselves. Semester exams may be conducted during the regularly scheduled lecture period. Exam may consist of a combination of multiple choice, short answer, match, true and false, and/or descriptive questions.

No make-up exams will be given. Only documented absences will be considered as per HU guidelines. Make-up exams may be different from regular exams in content and format.

Assignment: Each student will be asked to gather information about one medicinal plant that is available in the market, prepare in the form of poster and submit it on moodle.

Grades are not negotiable and are awarded according to the following criteria:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

"Lecture hours and weeks are approximate and may change as needed"

Note: For Chem 101 sections with 2 lecture periods per week (S/T, M/W or T/R), one lecture period covers 1. lecture hours (60 minutes). The course content specifies the sections in chapters 1-10 of the textbook thatwill be included in quizzes, homework and exams.

"Lecture hours and weeks are approximate and may change as needed"

Note: For the 2 lecture periods per week (S/T, M/W), one lecture period covers 1 lecture hours (60minutes). The course content specifies chapters of the textbook that will be included in exams.

Week Number	No. of Hours	CILOs	Subject	Delivery Methods	Assessment Methods
1	**2**	A, B, C	**1. Introduction to complementary and alternative medicine** 1.1. What is CAM? 1.2 Categorization of CAM (Healing systems, Mind-body connections, Dietary supplements, Manipulation and touch, Restoring natural energy forces) 1.3 How can pharmacists be involved in CAM? 1.4 Regulations related to CAM	PowerPoint Lectures Active Classroom-Based Discussions	Exams
2	**2**	A, B, C	**Phytomedicine for CNS diseases** (ginkgo, St. John' Wort, sleeping and restlessness remedies)	PowerPoint Lectures Active Classroom-Based Discussions	Exams
3	**2**	A, B, C	**Phytomedicine for CNS diseases** (ginkgo, St. John's Wort, sleeping and restlessness remedies) **Phytomedicine for cardiovascular diseases** (heart failure, coronary insufficiency, hypotension & hypertension, atherosclerosis, chronic venous insufficiency)	PowerPoint Lectures Active Classroom-Based Discussions	Exams
4	**2**	A, B, C	**ɔmedicine for cardiovascul ses** (heart failure, coronary ficiency, hypotension & rtension, atherosclerosis,	PowerPoint Lecture Active Classroom-	Exams

			ıic venous insufficiency)	Based Discussions	
5	**2**	A, B, C	**Phytomedicines for respiratory system diseases** (cold syndrome, cough, expectorants and sinusitis**(**	PowerPoint Lecture	Exams
6	**2**	A, B, C	**Phytomedicine for digestive system diseases** (anorexia, dyspepsia, bloating, irritable bowel syndrome, acute diarrhoea, constipation and liver diseases**(**	PowerPoint Lectures Relevant Videos	Exams
7	**2**	A, B, C	**Phytomedicine for digestive system diseases** (anorexia, dyspepsia, bloating, irritable bowel syndrome, acute diarrhoea, constipation and liver diseases)	PowerPoint Lectures	Exams
8	**2**	A, B, C	**Phytomedicine for urinary tract diseases** (inflammatory disease, benign prostate hyperplasia, bladder and kidney)	Active Classroom-Based Discussions Relevant Videos	Exams
9	**2**	A, B, C	**Phytomedicine for gynecological diseases** (dysmenorrhoea, menopause)	Active Classroom-Based Discussions Relevant Videos	Exams
10	**2**	A, B, C	**Phytomedicine for enhancing immune system**	Active Classroom-Based Discussions Relevant Videos	Exams
11	**2**	A, B, C	**Phytomedicine for skin disorders**	Active Classroom-Based Discussions	Exams

				Relevant Videos	
12	**2**	A, B, C	**Phytomedicine for skin disorders**	Active Classroom-Based Discussions Relevant Videos	Exams
13	**2**	A, B, C	**Drug-Herb Interactions**	Active Classroom-Based Discussions	Exams
14	**2**	A, B, C	**تشريعات استعمال النباتات الطبية** **أسس إجازة المستحضرات الطبيعية والنواتج الطبيعية في المملكة الاردنية الهاشمية** **أسس تسجيل المستحضرات النباتية في المملكة الاردنية الهاشمية** **أسس تصدير الدواء ومستحضرات الفيتامينات ومستحضرات النباتات الطبية في المملكة الأردنية الهاشمية**	Active Classroom-Based Discussions Relevant Videos	Exams
15-16			**University Final Exam**		