



Syllabus: Phytotherapy (#1317021474) Second Semester 2021 /2022

COURSE INFORMATION	
Course Name: Phytotherapy (online education) Semester: Second Department: Department of Clinical Pharmacy and Pharmacy Practice Faculty: Pharmaceutical Sciences	Course Code: 1317021474 Section: 1 Core Curriculum: 2013 Study Plan
Day(s) and Time(s): Thr: 8:00 – 10:00 Classroom: Pharmaceutical Sciences (to be assigned later on)	Credit Hours: 2 Prerequisites: 1317031313
COURSE DESCRIPTION	
<p>This course aims to introduce the student to the phytochemical and natural drugs that have 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 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..</p>	
DELIVERY METHODS	
<p>The course will be delivered through a combination of active and online learning strategies. These will include:</p> <ul style="list-style-type: none"> • Recorded lectures and active Microsoft-based discussion • Teams recorded lectures • Relevant films and documentaries • E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team 	

FACULTY INFORMATION

Name	Dr. Rand Shahin
Academic Title:	Assistant Professor
Office Location:	Third Floor
Telephone Number:	Extension: 3442
Email Address:	r.shahin@hu.edu.jo
Office Hours:	Monday 10:30-1:00 Tuesday 10:00-11:00 <i>Please send an e-mail (r.shahin@hu.edu.jo) to meet.</i>

REFERENCES AND LEARNING RESOURCES

1. Text Book	National Geographic Guide to Medicinal Herbs: TheWorld's Most Effective Healing Plants, National Geographic Society
2. Other References	Rational phytotherapy, a physicians' guide to herbal medicine, fourth edition 2001. V Schulz, R Hansel, V.E. Tyler
3. Web site	http://umm.edu/health/medical/altmed

STUDENT LEARNING OUTCOMES MATRIX

An alignment matrix of the **program** ILOs of the Bachelor of 'Pharmaceutical Sciences at The Hashemite University, the **course** ILOs and knowledge, skills and competencies as mentioned in the Jordan National Qualifications Framework (JNQF)

Field according to (JNQF)	Required to achieve (according to (JNQF))	Core curriculum learning outcomes	B.Sc. Pharmacy Program ILOs	Course Objectives	Course Student ILOs					Assessment Method
					A	B	C	D		
Knowledge	<p>A. Knowledge and Understanding: When students have completed the program they will be able to:</p> <p>A1. The student should be familiar with phytochemical and natural drugs that are used worldwide to treat several kinds of diseases.</p> <p>A2. Student should gain several competencies in the area Complementary Alternative Medicine (CAM)</p> <p>A3. Student should understand the role of pharmacist in Complementary Alternative Medicine (CAM)</p>	Foundational Knowledge	Learner							Recorded lectures and Microsoft based lectures
Skills	<p>B Essential for Practice and Care (Intellectual Skills): When students have completed the program they will be able to:</p> <p>B1. The student should analyze different cases related to the use of medicinal plants</p> <p>B2. The student should analyze how Drug-Herb interaction occur..</p> <p>B3. The student should recognize benefits and risks regarding the use of a specific CAM modality</p> <p>C Approach to Practice Pharmacy: When students have completed the program they will be able to:</p> <p>C1 The student should learn how to consult the patient regarding the effective CAM to prevent, alleviate or complement palliative medicine.</p> <p>C1. Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution</p>	Essentials for Practice and Care Approach to Practice and Care	Caregiver Manager Promoter Provider Creative Thinker & Problem-Solver Educator Advocate Collaborator Includer Communicator							Problem solving during exams and examples during class discussion

	<p>related to natural products.(Problem solver)</p> <p>C2. Patient Advocacy (Advocate) - Assure that patients' best interests regarding natural drugs and products are represented.</p> <p>C3. Educator (Educator) – Educate all audiences by determining the most effective and enduring ways_to impart information and assess understanding regarding the natural drugs and products.</p> <p>C4. Communication (Communicator) – Effectively communicate verbally and nonverbally when_interacting with an individual, group, or organization especially in the topic of natural drugs and products.</p>									
Competencies	<p>D. Personal and Professional Development: When students have completed the program they will be able to:</p> <p>D1 Students should know how to conduct literature survey for scientific information related to medicinal plants</p> <p>D2 Students should know how to consult the pharmaceutical industry on natural product.</p> <p>D3.The students will be able to discuss the occurrences of side effects, overdose and interactions with herbal products which occur frequently for which a patient may seek medical care</p> <p>D4 Self-awareness (Self-aware) – Examine and reflect on personal knowledge, skills, abilities, beliefs, biases, motivation, and emotions that could enhance or limit personal and professional growth regrding his role as a pharmacist and the medication expert in the field of natural drugs and products</p>	<p>Personal & Professional Development</p> <p>Pharmaceutical Product Expert</p>	<p>Self-aware</p> <p>Leader</p> <p>Innovator</p> <p>Professional</p> <p>Manufacturer</p>							<p>Problem solving during exams and examples during class discussion</p>

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 are encouraged 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 a 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 need to spend 15 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, it is your responsibility to find out about any announcements or assignments you have missed. For any clarification, please communicate your instructor at her posted office hours or 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.

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 or submitted 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 is detected

Late or Missed Assignments

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical 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 to submit 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 assessment will be awarded and an alternative assessment or extension can be arranged.

Missed Assessments

In all cases of assessment, students who fails 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 misconduct, 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 in 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 The 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

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment 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:

Assessment	Grade Weighting	Deadline Assessment
First Exam	30%	~ 6 th week
Second Exam	30%	~ 10 th week
Final Exam	40%	~ 15 th /16 th week

Description of Exams

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

Homework: Will be given for each chapter, while the chapter in progress you are supposed to work on them continuously and submit in next lecture when I finish the chapter.

You are also expected to work on in-chapter examples, self-tests and representative number of end of chapter problems. The answers of self-tests and end of chapter exercises are given at the end of the book.

Quizzes: Unannounced quizzes will be given during or/and at the end of each chapter based upon the previous lectures. It will enforce that you come prepared to the class.

No make-up exams, homework or quizzes will be given. Only documented absences will be considered as per HU guidelines.

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.

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”

Week	ILOs	Topics	Teaching Procedure	Assessment methods
1	AI-3 BI-3 C-1-4 DI-4	<p>1. Introduction to complementary and alternative medicine</p> <p>1.1. What is CAM?</p> <p>1.2 Categorization of CAM (Healing systems, Mind-body connections, Dietary supplements, Manipulation and touch, Restoring natural energy forces)</p> <p>1.3 How can pharmacists be involved in CAM?</p> <p>1.4 Regulations related to CAM</p>	Recorded lectures and online discussion	First Exam
2	AI-3 BI-3 C-1-4 DI-4	Phytomedicine for CNS diseases (ginkgo, St. John's Wort, sleeping and restlessness remedies)	Recorded lectures and online discussion	First Exam
3	AI-3 BI-3 C-1-4 DI-4	Phytomedicine for cardiovascular diseases (heart failure, coronary insufficiency, hypotension & hypertension, atherosclerosis, chronic venous)	Recorded lectures and online discussion	Second Exam

		<i>insufficiency)</i>		
4	A1-3 B1-3 C-1-4 D1-4	<i>Phytomedicines for respiratory system diseases (cold syndrome, cough, expectorants and sinusitis)</i>	<i>Recorded lectures and online discussion</i>	<i>Second Exam</i>
5	A1-3 B1-3 C-1-4 D1-4	<i>Phytomedicine for digestive system diseases (anorexia, dyspepsia, bloating, irritable bowel syndrome, acute diarrhoea, constipation and liver diseases)</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
6	A1-3 B1-3 C-1-4 D1-4	<i>Phytomedicine for urinary tract diseases (inflammatory disease, benign prostate hyperplasia, bladder and kidney)</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
7	A1-3 B1-3 C-1-4 D1-4	<i>Phytomedicine for gynecological diseases (dysmenorrhoea, menopause)</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
8	A1-3 B1-3 C-1-4 D1-4	<i>Phytomedicine for enhancing immune system</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
9	A1-3 B1-3 C-1-4 D1-4	<i>plants that habitat in the Jordanian environment</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
10	A1-3 B1-3 C-1-4 D1-4	<i>Drug-Herb Interactions</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
	D1-4	<i>تشريعات استعمال النباتات الطبية أسس إجازة المستحضرات الطبيعية والنواتج الطبيعية في المملكة الأردنية الهاشمية أسس تسجيل المستحضرات النباتية في المملكة الأردنية الهاشمية أسس تصدير الدواء ومستحضرات الفيتامينات ومستحضرات النباتات الطبية في المملكة الأردنية الهاشمية</i>	<i>Recorded lectures and online discussion</i>	<i>Final Exam</i>
		<i>Final Examination Exam</i>		

Last updated on 20/ 3/ 2022 by : Dr. Rand Omar Shahin