The Hashemite University
Faculty of Science
Course Syllabus

Department of Biology and Biotechnology

Course Title: Medicinal plants
Course Number: 1101041354
Pre-requisite: either 1101041251 or 1101042252
Credit Hours: 3
Designation: Required
Instructor: Dr. A. Al-Ghzawi
Instructor's E-mail: ghzawi @hu.edu.jo
Office Hours:

Course Description (Catalog): This course covers the medicinal plants and their role in traditional and modern medicine.

Text Book: Encyclopedia of Herbal Medicine: 550 Herbs and Remedies for Common Ailments by Andrew Chevallier | Jul 5, 2016

References: any medicinal plants book is acceptable and can be considered as a reference

Major Topics Covered:

Topics	No. of Weeks	Contact Hours*
Introduction & quality Control of Herbal Drugs	0.5	
Medicinal plants history and development	1	
How medicinal plants work	1	
Secretory structures	1	
Classifications of medicinal and aromatic plants	1	
The constituents of medicinal plants	1	
Herbal drug formulation and evaluation	1	
Selected examples of medicinal plants	1	
Mid-drugs (psychoactive drugs)	0.5	

*Contact Hours include lectures, labs and exams.

- **Specific Outcomes of Instruction (Course Learning Outcomes):**

After completing this course units, the students will be able to:

	Course Learning Outcomes (CLO)	(SO*)
CLO1.	Learn the basic principles of biotechnology	(a), (b)
CLO2.	Identify the various tools used in biotechnology.	(c), (e), (j), (k)
CLO3.	Learn the various products and applications of biotechnology.	(a), (d), (e), (f), (k)

	Course Learning Outcomes (CLO)	(SO*)
CLO4.	learn the tools they need to understand the methods, implications, and debate surrounding the use of biotechnological products now and in the future	(a), (e), (f), (g), (i), (k)

*(SO) = Student Outcomes Addressed by the Course.

❖ **Student Outcomes (SO) Addressed by the Course:**

#	Outcomes Description Applied and Natural Sciences Student Outcomes	Contribution
(a)	an ability to apply knowledge of mathematics, science, and applied sciences	H
(b)	an ability to design and conduct experiments, as well as to analyze and interpret data	M
(c)	an ability to formulate or design a system, process or program to meet desired needs	M
(d)	an ability to function on multidisciplinary teams	
(e)	an ability to identify and solve applied sciences problems	M
(f)	an understanding of professional and ethical responsibility	M
(g)	an ability to communicate effectively	
(h)	the broad education necessary to understand the impact of solutions in a global and societal context	M
(i)	a recognition of the need for, and an ability to engage in life-long learning	M
(j)	a knowledge of contemporary issues	M
(k)	an ability to use the techniques, skills, and modern scientific and technical tools necessary for professional practice.	M

H = High, **M** = Medium, **L** = Low

Grading Plan:

Exams:

First exam:	30 points	
Second exam	30 points	
Final Exam:	40 points	To be announced later

General Notes: (Attendance Policy) students are expected to attend every class and arrive on time in compliance with HU regulations. In case you find yourself in a situation that prevents you from attending class or exam, you have to inform your instructor. If you miss more than 6 classes for the (Sunday, Tuesday, and Thursday model) or 4 classes for the (Monday and Wednesday Model), you cannot pass the course. Makeup excuses will be accepted only for very limited justified cases, such as illness and emergencies. Changing your section without informing your instructors is not accepted at all.