

Hashemite University	  Faculty of Science كلية العلوم - الجامعة الهاشمية	Medicinal Plants 1801041354 Elective Course
Faculty of Science		Pre-requisite: 1801041251 or 1801041252
Department of Biology and Biotechnology		Credit Hours: 3 hrs.
Course Syllabus		
Course Information		
Lecture's Time	10.00 – 11.30 Monday & Wednesday	
Lecture Room	Biology Building 232	
Instructor	Rajaa Abueideh	
Office Location	Herbarium Lab. at Herbarium building or Biology Building 103	
Instructor's E-mail	raj@hu.edu.jo	
Internet Home Page	staff.hu.edu.jo/rajaa	
Office Hours	9.30-10.30 Sunday, 9.30-11.30 Tuesday + Messages using Microsoft teams	
Textbook Encyclopedia of Herbal Medicine, by Chevalier, A., 3 rd edition DK Publishing Inc., New York, 2016		
References(s)	-Medicinal Plants of the World: Chemical Constituents, Traditional and Modern Medicinal Uses.by Ross, I. 2nd edition. Humana Press.2003. - Economic Botany by Simpson B.B. & Ogorzaly M. C.4th ed. McGraw-Hill. 2013. - A Field Guide to Medicinal Plants and Herbs: of Eastern and Central North America by Foster, S & Duke, J. Roger Tory Peterson. 1999. - Hill's Economic Botany by Hill, A. Tata McGraw-Hill publishing company limited. New Delhi. 1996 -نباتات الاردن البرية وفوائدها الطبية والعطرية والصناعية. الجنيدى، م. دار الاسيل للطباعة والنشر والتوزيع، عمان. الطبعة الاولى 1993 . - النباتات الطبية والعطرية.قاسم، ج. منشورات جامعة القدس المفتوحة. الطبعة الاولى 1997 . - In addition to latest papers in this field.	

Grading Policy:

Theory	
1 st Exam	30 %
2 nd Exam	30 %
Other	___%
Final Exam	40%

Course Objectives

- 1) Understand the importance of medicinal plants to medicine development
- 2) Understand fundamental concepts of medicinal plants.
- 3) Learning about the history and development of medicinal plants
- 4) Develop an awareness of the effect of herbs, spices and medicinal plants on the development of human history and culture.
- 5) Learning the principle of identifying and classifying medicinal plants and understanding their current uses.
- 6) Correlate the therapeutic activity of medicinal plants to their active constituents with the emphasis on that the whole herb is worth more than the sum of its parts.
- 7) Understand the fundamentals of phytotherapy as one of the alternative medicines.
- 8) Develop an idea about some toxic plants.
- 9) Identify some common medicinal plants used in the World and Jordan specifically.
- 10) Learn about nervous system stimulant plants.
- 11) Learn how to prepare herbal remedies for home use.

Teaching and Learning Methods

Theory classes.

Field trips to the botanical garden at the university, to learn about and identify many of the medicinal herbs used.

Presentations presented by students. The focus of these presentations will be the use of medicinal plants in treating several disorders.

specimen preservation to identify common medicinal plants in Jordan and to deal with correct preservation of these specimens.

Course Contents

Week	Topic
1	Introduction, History and development of medicinal plants & Quality control
2	Introduction, History and development of medicinal plants & Quality control. Secretion in plants
3	Medicinal plants classification
4	Active constituents
5	Active constituents First Hour Test

6	Preparing herbal remedies. Plant Nomenclature
7	Selected medicinal plants
8	Selected medicinal plants
9	Selected medicinal plants
10	Selected medicinal plants
11	Selected medicinal plants Second Hour Test
12	Selected medicinal plants
13	Selected medicinal plants Psychoactive drugs
14	Psychoactive drugs
15,16	Final Examination

List of medicinal plants that will be studied during this semester

No.	Latin name	Family	Common Arabic name
1.	<i>Achillea fragrantissima</i>	Compositae	القيصوم أخيليا
2.	<i>Allium sativum</i>	Liliaceae	الثوم
3.	<i>Aloe vera</i>	Liliaceae	
4.	<i>Ammi visnaga</i>	Umbelliferae	الخلّة
5.	<i>Artemisia herba-alba</i>	Compositae	شبح
6.	<i>Camellia sinensis</i>	Theaceae	شاي
7.	<i>Carthamus tinctorius</i>	Compositae	عصفور
8.	<i>Cassia senna</i>	Leguminosae	السنامكي
9.	<i>Cinnamomum verum</i>	Lauraceae	القرفة
10.	<i>Coffea arabica</i>	Rubiaceae	القهوة
11.	<i>Crataegus oxyacantha</i>	Rosaceae	زعرور
12.	<i>Curcuma longa</i>	Zingiberaceae	كركم
13.	<i>Elettaria cardamomum</i>	Zingiberaceae	الهيل
14.	<i>Eugenia caryophyllata</i>	Myrtaceae	كبش قرنفل
15.	<i>Ginkgo biloba</i>	Ginkgoaceae	الجنكة (جنكو)
16.	<i>Hedra helix</i>	Araliaceae	لبلاب
17.	<i>Linum usitatissimum</i>	Linaceae	بذر الكتان
18.	<i>Melaleuca alternifolia</i>	Myrtaceae	شجرة الشاي
19.	<i>Nigella sativa</i>	Ranunculaceae	قزحه
20.	<i>Olea europaea</i>	Oleaceae	الزيتون
21.	<i>Origanum vulgare</i>	Labiatae	مردقوش
22.	<i>Panax ginseng</i>	Araliaceae	الجنسينغ
23.	<i>Peganum harmala</i>	Zygophyllaceae	الحرمل
24.	<i>Rosmarinus officinalis</i>	Labiatae	اكليل الجبل / حصى البان
25.	<i>Salvia officinalis</i>	Labiatae	الميرمية
26.	<i>Theobroma cacao</i>	Malvaceae	الكاكاو
27.	<i>Trigonella foenum-graecum</i>	Leguminosae	الحلبة
28.	<i>Urtica dioica</i>	Urticaceae	القريص
29.	<i>Zingiber officinale</i>	Zingiberaceae	الزنجبيل