

The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Medicinal Plants
2	Course number	0344 954
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	3
4	Prerequisites/co-requisites	None
5	Program title	Biological Sciences
6	Program code	
7	Awarding institution	University of Jordan
8	Faculty	Science
9	Department	Biology
10	Level of course	Msc
11	Year of study and semester (s)	first Semester 2017/2018
12	Final Qualification	M.Sc. in Biological Sciences
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	2017/2018

16. Course Coordinator:

Sawsan Oran PhD Office: 106 Biology building Phone number: 22226 Email: Oransaw@ju.edu.jo

17. Other instructors:

None

18. Course Description:

The course is dealing with introducing the students to plants that are of medicinal with emphasis on the MPs in Jordan values, photochemistry of the related plants., the use of medicinal plants for human at national and international levels, the use of medicinal plants in folk traditional medicine and in the pharmaceutical industry, also the tools of conserving the MPs and conservation policies also providing study cases and on-going research of medicinal plants at local and global levels. Presentations are given by students on different topics of medicinal plants.

19. Course aims and outcomes:

A- Aims:

The student will be able to get knowledge about medicinal plants, their distribution in Jordan and abroad, the use of medicinal plants in folk medicine and in the pharmaceutical industry, the research that is dealing with medicinal plants at local and international levels and providing studies that are of medicinal values, delivering the concept of protecting and conserving medicinal plants using biotechnological and classical methods of conservation, encouraging the students to conduct research on medicinal plants that at of interesting values.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be familiar with the a good number of medicinal plants locally and globally, they are getting to have knowledge about the conducted and the on-going research on medicinal plants, the will be aware of how medicinal plants are contributing in many industries like pharmaceutical industry, cosmetics and perfumery, and others, finally they will be able to understand the phytochemical constituents of the related medicinal plants.

20. Topic Outline and Schedule:

1. –Introduction to vascular medicinal plants global and local examples are given: 2 lectures

2 - The use of medicinal plants for the leisure of human on local and international levels 2 lectures

3 - The use of medicinal and its contribution in serving the human communities (Folk medicine and pharmaceutical industry)

1 lecture

- 4. The general status of medicinal plants in Jordan and the Arab world. 2 lectures.
- 5. Biotechnology in the production and conservation of medicinal plants 2 lectures
- 6. Enhancing the role of protected areas in conserving medicinal plants 2 lectures
- 7. Botanic Gardens and their role in the conservation of medicinal plants lectures 2
- 8. The role of Chinese botanical gardens in conservation of medicinal plants 1 lecture
- 9. Policies to conserve MPs. 1 lecture
- 10 The conservation of medicinal plants used in primary health care (global cases) **1** lecture 11.Medicinal plants and Law **1** lecture
- 11. Medicinal plants and Law 1 lecture
- 12. The need for public awareness 1 lecture

13. Germplasm, genetic erosion and conservation of medicinal plants, study cases locally and globally. **1** lecture

- 14. Experiences from programs to conserve medicinal plants **2** lectures
- 15. The Chinese approach to medicinal plants , their utilization and conservation 1 lecture
- 16. Complexity and conservation of medicinal plants 1 lecture

17. Utilization of Indigenous medicinal plants and their conservation in some places in Asia (Bangladesh and others) 1 lecture

18. Development and a conservation policy on commercially exploited medicinal plants : A case study from south Africa proposal for international collaboration **1 lecture**

19. Studied cases on the effect of medicinal plants of the biological activities on plants and animals and microorganisms (publishes national and international) **3 lectures**

20. on-going research on medicinal plants regarding the effect of medicinal plants on living

organisms (native and international joint projects) 2 lectures

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Interactive lecture using data show Office hour discussions Presentations

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment</u> <u>methods and requirements</u>:

Opportunities for discussions

1. Term paperAkerele, O., Heywood, V., Synge, H. (1988). The Conservation of Medicinal Plants.

Cambridge University Press, New York.

- Al-Wareh H., Al-Ghazal R., Mouchntat A. (1993). Medicinal and Aromatic Plants. Aleppo University Publications. Syria.
- 3. Boulos, L. (1983). Medicinal Plants of North Africa. Reference Publications, Michigan.
- 4. Harborne, J. (1973). Phytochemical Methods. Chapman and Hall, London.
- 5. Hill, A. (1952). Economic Botany. McGraw-Hill Book Company, New York.
- Oran, S. A., Al-Eisawi, D. M. (1998). List of Medicinal Plants in Jordan. Dirasat (Medical and Biology Sciences) 25 (29), 84-112
- Oran, S.A. (1994). Genetic Resources of Medicinal Plants in Jordan Jordan., Proceedings, Plant Genetic Resources of Jordan, Proceedings of a national seminar, 2-4 August 1994, Amman, Jordan (IPGRI),
- 8. Panos, M. and Heimlich J. The Complete of Family Homeopathic Medicine. Orient Paperback,

Bombay.

9. Podlech, D. (1996). Herbs and Healing Plants of Britain and Europe. Harper Collins Publishers.

London.

Primack, R. (1993). Essentials of Conservation Biology. Sunderland, Massachusetts Presentation Exams

23. Course Policies:

A- Attendance policies: Regular class attendance is expected					
B- Absences from exams and handing in assignments on time: Reporting a valid reason of absence is accepted.					
E- Grading policy: Depends on average					
Grading: -Midterm Exam -Presentation and term paper -Final Exam	30% 20% 50%				
Total		100%			

24. Required equipment:

Available university services that support achievement in the course:

Data Show, white board , internet access

25. References:

Textbook:

- 10. Akerele, O., Heywood, V., Synge, H. (1988). The Conservation of Medicinal Plants. Cambridge University Press, New York.
- 11. Al-Wareh H., Al-Ghazal R., Mouchntat A. (1993). Medicinal and Aromatic Plants. Aleppo University Publications. Syria.
- 12. Boulos, L. (1983). Medicinal Plants of North Africa. Reference Publications, Michigan.
- 13. Harborne, J. (1973). Phytochemical Methods. Chapman and Hall, London.

14. Hill, A. (1952). Economic Botany. McGraw-Hill Book Company, New York.

- Oran, S. A., Al-Eisawi, D. M. (1998). List of Medicinal Plants in Jordan. Dirasat (Medical and Biology Sciences) 25 (29), 84-112
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- 17. Panos, M. and Heimlich J. The Complete of Family Homeopathic Medicine. Orient Paperback, Bombay.
- Podlech, D. (1996). Herbs and Healing Plants of Britain and Europe. Harper Collins Publishers. London.

Primack, R. (1993). Essentials of Conservation Biology. Sunderland, Massachusetts

26. Additional information:

Name of Course Coordinator:	Prof. dr. Sawsan Oran Signature: Date: 7 Jan
2018	
Head of curriculum committee	e/Department: Signature:
Head of Department:	Signature:
Head of curriculum committee	/Faculty: Signature:
Dean:	

<u>Copy to:</u> Head of Department Assistant Dean for Quality

Assurance

Course File