The Hebrew University of Jerusalem

Syllabus

MEDICINAL PLANTS IN MODERN MEDICINE - 64752

Last update 19-04-2013

<u>HU Credits:</u>   3

<u>Degree/Cycle:</u> 1st degree (Bachelor)

<u>Responsible Department:</u> Farmacology

<u>Academic year:</u> 1

<u>Semester:</u> 1st Semester

<u>Teaching Languages:</u> Hebrew

<u>Campus:</u> Ein Karem

<u>Course/Module Coordinator:</u> Zohara Yaniv Bachrach

Coordinator Email: zoharayb@netvision.net.il

<u>Coordinator Office Hours:</u>

<u>Teaching Staff:</u>
  Zohara Yaniv-Bachrach and invited speakers

<u>Course/Module description:</u>

<u>Course/Module aims:</u>
  1. To get a basic knowledge about the use of medicinal plants in modern medicine.

 2. To be introduced to the new methods of medicinal plant research.
 3. To acquire a critical viewpoint about the possible pitfalls and the truths in this field.

<u>Learning outcomes - On successful completion of this module, students should be able to:</u>
  1. To identify evidence-based information in the use of Medicinal Plants,
 2. To analyze and appraise correct information.
 3.To assess, compare,and evaluate the flow of information regarding health issues

<u>Attendance requirements(%):</u>

Teaching arrangement and method of instruction: Lectures given by the different experts

<u>Course/Module Content:</u>
  Lesson Topic Date
 Introduction:
 Historical aspects, terminology and definitions. Week 1-Prof. Yaniv
 The basics of Ethnobotanical research.
 Example: ethnobotanical research in Israel Week 2- Prof. Yaniv
 Biological aspects of natural active compounds present in plants. Week 3 -Prof. Yaniv
 Medicinal Plants and the immune system Week 4- Dr. Levin
 Chemical aspects of plants' natural
 Compounds. Week 5- Prof. Yaniv
 Terpens and Cannabinoids in Plants Week 6- Prof. Meshulam
 The use of medicinal plants in modern medicine for digestive problems. Week 7-Dr.

Levin
 Green Tea and its medicinal properties. Week 8- Prof. Bachrach
 Interactions between drugs and medicines of plant origin Week 9- Dr. Kogan
 The use of medicinal plants in modern medicine for the nerve system. Week 10-Dr.
Kogan
 The use adaptogens in modern medicine Week 11- Dr. Levin
 The use of medicinal plants in Chinese medicine Week 12- Prof. Yaniv
 The use of plants in cancer research, prevention and curing. Week 13- Prof. Yaniv
 Final exam Week 14- Prof. Yaniv

Required Reading:
 Bibliography
 1. Evans WC. 2002. Trease and Evans Pharmacognosy 15th ed. Edinburgh UK.
 2. Bruneton J. 1995. Pharmacognosy, Phytochemistry, Medicinal plants. Lavoisier,
Paris.
 3. Yaniv Z and Bachrach, U. Handbook of Medicinal Plants.2005. The Haworth
Press. NY..
 4. Barnes J Anderson LA Phillipson JD 2002. Herbal Medicine 2ed ed. Pharmaceutical
Press.
 5. Blumenthal M Goldberg A Brinckmann J. 2000. Herbal medicine- Expande
Commission E Monographs. Newton (MA): Integrative Medicine Communications.
 6. Capasso F., Gaginella,TS,.Grandolini,G and Izzo,AA. 2003. Phytotherapy. A quick
reference to herbal Medicine. Springer-Verlag Press. New-York.
 . . 7.פארן מ. וא. טשרני 1997. צמחי מרפא ברפואה המודרנית. כרך א, ב אקדמון,
 .8.פארן.מ. 2003. ספר רפואת הצמחים. יריד הספרים. ירושלים. .
 .9.. פלביץ ד. וז. יניב. 2008. צמחי המרפא של ארץ ישראל. תמוז מודן.
..10. פלביץ ד. יניב ז. דפני א. פרידמן י. 1985. סקר צמחיית הבר בישראל כמקור לתרופות. המועצה
 הלאומית למחקר ולפיתוח.

 Additional Reading Material:
  internet sources, when needed

  Course/Module evaluation:
 End of year written/oral examination 100 %
 Presentation 0 %
 Participation in Tutorials 0 %
 Project work 0 %
 Assignments 0 %
 Reports 0 %
 Research project 0 %
 Quizzes 0 %

Other 0 %

<u>Additional information:</u>