# The Hebrew University of Jerusalem

## Syllabus

# DECIDUOUS FRUIT TREE GROWING - 71421

*Last update 16-10-2015*

*HU Credits:* 3

*Degree/Cycle:* 1st degree (Bachelor)

*Responsible Department:* plant science in agriculture

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* Hebrew

*Campus:* Rehovot

*Course/Module Coordinator:* Smadar Harpaz-Saad

*Coordinator Email:* smadar.harpaz@mail.huji.ac.il

*Coordinator Office Hours:* By appointment

*Teaching Staff:*

*Dr. Smadar Harpaz-Saad*

*Course/Module description:*

*Principals of growing deciduous trees as crop. Physiology and biochemistry of deciduous trees. Orchard design and agro-technical practices. Graft-stock relationship. Strategies in irrigation and fertilization. Dormancy breaking treatments. Chemical thinning. Fruit development and ripening. Genetic engineering and molecular approaches in fruit tree breeding.*

*Course/Module aims:*

*Understanding the major principals along the course of deciduous trees life cycle. Acquisition of the tools required for in-depth understanding of agricultural challenges in deciduous fruit trees and possible strategies to deal with these and future challenges*

*Learning outcomes - On successful completion of this module, students should be able to:*

*To understand the major principals under-laying the physiology of deciduous fruit trees and meet wide variety of agricultural challenges.*

*Attendance requirements(%):*

*participation in educational tour and quizes is obligatory*

*Teaching arrangement and method of instruction: lectures, tour to decidious fruit trees orchard and research stations.*

*Course/Module Content:*

*Orchard design and agro-technical practices. Graft-stock relationship. Strategies in irrigation and fertilization. Dormancy breaking treatments. Chemical thinning. Fruit development and ripening. Genetic engineering and molecular approaches in fruit tree breeding.*

*Required Reading:*

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*Additional Reading Material:*

*uploaded to moodle*

*Course/Module evaluation:*

*End of year written/oral examination 60 %*
*Presentation 0 %*
*Participation in Tutorials 0 %*
*Project work 0 %*
*Assignments 0 %*
*Reports 0 %*
*Research project 0 %*
*Quizzes 40 %*
*Other 0 %*

*Additional information:*

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