



## *The Hebrew University of Jerusalem*

### *Syllabus*

## **FRUIT SET AND DEVELOPMENT - 71933**

*Last update 08-10-2024*

*HU Credits:* 3

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* Horticulture

*Academic year:* 0

*Semester:* 2nd Semester

*Teaching Languages:* English

*Campus:* Rehovot

*Course/Module Coordinator:* Prof. Avi Sadka

*Coordinator Email:* [vhasadka@volcani.agri.gov.il](mailto:vhasadka@volcani.agri.gov.il)

*Coordinator Office Hours:* Please contact me by email

*Teaching Staff:*

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Prof. Alon Samach,  
Prof. Avi Sadka

Course/Module description:

*Discussions on selected issues, including physiological, morphological and molecular processes and endogenous and exogenous regulators, which determine and control fruit development and its quality in various species*

Course/Module aims:

*To expose the students to the various stages of fruit development and their control*

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

*The students will gain understanding as to the basis of fruit development, and will be able to critically read scientific papers.*

Attendance requirements(%):

*Obligatory attendance in guest and students lectures*

*Teaching arrangement and method of instruction: Frontal lectures and students seminars*

Course/Module Content:

*flower morphology, pollination and fertilization, fruit set, embryogenesis, control of fruit size and shape, the metabolic control of fruit development, parthenocarpic fruit set, breeding, alternate bearing, horticultural means to induce yield, fruit ripening, post-harvest processes*

Required Reading:

*Every week a new research paper will be given and all the students will read it at home and test on it and the material studied the following week. One of the students will lecture on the article.*

Additional Reading Material:

*none*

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Grading Scheme:

*Active Participation / Team Assignment 10 %*

*Mid-terms exams 50 %*

*Presentation / Poster Presentation / Lecture 40 %*

Additional information: