

The Hebrew University of Jerusalem

Syllabus

***BIOLOGY & PRODUCTION OF CITRUS & SUBTROPICAL
FRU - 71410***

Last update 08-10-2024

HU Credits: 4

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Plant Science in Agriculture

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Alon Samach

Coordinator Email: alon.samach@mail.huji.ac.il

Coordinator Office Hours: wednesday 13:30-14:30

Teaching Staff:

Prof. Avi Sadka,
Prof. Alon Samach,
Mr. ben amitai

Course/Module description:

The course will address the following fruit trees: citrus, avocado, mango, Litchi, Longan, persimmon, date, passionfruit, banana and Pitaya

Course/Module aims:

Raising interesting issues of agricultural and scientific aspects of growing fruit trees. but will not provide protocols for growing

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

Scientific and agricultural up to date knowledge about growing fruit trees. A student will be capable of analyzing and establishing an objective opinion on published research in these fields. A student will be capable to explain a published manuscript in the field to farmers.

Attendance requirements(%):

60

Teaching arrangement and method of instruction: lectures in class and recorded for self learning with quizzes on Moodle, guest lectures, 3 tours and exercise and one lab. The exercise will be in pairs, and will teach how to critically read and analyse published manuscripts in the field, and how to present them to the group. papers will be from Israeli scientists and the students are required to make contact with the researchers for presenting the research.

Course/Module Content:

Origin; specific climate and soil requirements; cultivation history; distribution and economic world and local trends; genetic variation; classic and other breeding; varieties and rootstocks. Developmental and physiological aspects affecting yield quantity and quality, such as: flowering; pollination and fertilization; fruit set and fruitlet abscission; fruit development; ripening and storage. We will discuss specific problems and available solutions.

Required Reading:

none

Additional Reading Material:

none

Grading Scheme:

Written / Oral / Practical Exam 50 %

Presentation / Poster Presentation / Lecture/ Seminar / Pro-seminar / Research proposal 50 %

Additional information:

Participation in field trips, labs, tutorials, Avi's lectures and guest lectures is mandatory. Test is multiple choice in moed 1 and Moed 2. Oral test in Moed 3. See hebrew for additional details