



The Hebrew University of Jerusalem

Syllabus

PHYTOGEOGRAPHY AND ECOLOGY OF VEGETATION IN ISRAEL - 71921

Last update 07-04-2025

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Plantsciences in Agriculture

Academic year: 0

Semester: 2nd Semester

Teaching Languages: English

Campus: Rehovot

Course/Module Coordinator: Prof Jaime Kigel

Coordinator Email: kigel@agri.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Prof. Jaime Kigel,
Ms. Hagar Leshner

Course/Module description:

World Biomes and relationships with climatic conditions. Effects of geological processes and past climatic changes on the development of biomes. Evolution and taxonomic composition of biomes. Morphological and physiological adaptations allowing species presence in different climatic conditions. Plant life forms. Vegetation formations in Mediterranean, desert and sea litoral in Israel.

Course/Module aims:

Understand biogeographic process in plant world

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

Understand historic processes (evolution, geology, climatic change) and present biotic and abiotic conditions on world and Israel vegetation types

Attendance requirements(%):

100%

Teaching arrangement and method of instruction: Lectures and field tours

Course/Module Content:

XXXX

Required Reading:

רשימת ספרות
- פרבולוצקי א, פולק ג . 2001. אקולוגיה -התיאוריה והמציאות הישראלית.
- ויזל י, פולק ג, כהן י . 1978. אקולוגיה הצומח בארץ-ישראל.
- שוסטר א, כהן ד . 2005. אקולוגיה- יחידות 3-6. האוניברסיטה הפתוחה.
- זהרי מ. 1959. גיאובוטניקה.
- הצומח של ארץ ישראל. 1984. אנציקלופדיה החי והצומח של ארץ-ישראל. כרך 8. עורך: ע אלון.
Barbour, Burk, Pitts. 1987. Terrestrial Plant Ecology.
Cox, C.B and Moore, P.D. 2005. Biogeography: an ecological and evolutionary approach.
Good, R. 1974. The geography of the flowering plants.

Krebs, C.J. 2013. *The Experimental Analysis of Distribution and Abundance* (6th Edition)

Townsend CR, Begon M, Harper JK, 2009. *Essentials of Ecology*.

Willis, K.J. and McElwin, J.C. 2005. *The evolution of plants*.

Zohari M. 1973. *Geobotanical Foundations of the Middle East*

Additional Reading Material:

Grading Scheme:

Written Exam % 80

Essay / Project / Final Assignment / Home Exam / Referat 20 %

Additional information: