



The Hebrew University of Jerusalem

Syllabus

Environmental Sciences - we are changing the world - 89111

Last update 05-02-2024

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Environmental Sciences

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: yigal erel

Coordinator Email: yigal.erel@huji.ac.il

Coordinator Office Hours: after class

Teaching Staff:

Prof Yigal Erel

Course/Module description:

In this course we will learn to understand the environmental problems of the future and the present, and how to deal with them. We will understand the scientific background and the research of these issues, and learn about options for dealing with them.

Course/Module aims:

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

as above

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures

Course/Module Content:

- 1) What are the main environmental issues? Review of the pressing problems
- 2) Why we need to address environmental problems? Environmental Ethics.
- 3) The scientific approach: critical thinking about the environment
- 3) changing world: the dramatic increase in human population and human activity.
- 4) Ecosystems
- 5) Biogeochemical cycles
- 6) Environmental Economics
- 7) Health and Environment
- 8) Agriculture and Environment
- 9) nature reserves and open spaces
- 10) Maintaining biodiversity
- 11) protecting the marine environment
- 12) Global climate change
- 13) Nuclear Energy
- 14) renewable energy

Required Reading:

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Additional Reading Material:

Environmental Science, 8th Edition International Student Version
Daniel B. Botkin, Edward A. Keller

Grading Scheme:

Written / Oral / Practical Exam 100 %

Additional information:

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