



## Syllabus

# *Environmental Sciences - we are changing the world - 89111*

*Last update 05-02-2024*

*HU Credits: 2*

*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](mailto:yigal.erel@huji.ac.il)*

*Coordinator Office Hours: after class*

*Teaching Staff:  
Prof Yigal Erel*

*Course/Module description:*

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*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*

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*Daniel B. Botkin, Edward A. Keller*

*Grading Scheme:*

*Written / Oral / Practical Exam 100 %*

*Additional information:*

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