האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

INT. TO ECONOMICS OF NATURAL RESOURCES - 71148

Last update 06-10-2021

HU Credits: *3*

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

Responsible Department: *Environmental Economics & Management*

Academic year: *0*

Semester: *1st Semester*

Teaching Languages: *English*

Campus: *E. Safra Mt. Scopus Rehovot*

Course/Module Coordinator: *Avraham Ebenstein*

Coordinator Email: *aviebenstein@gmail.com*

Coordinator Office Hours: *Wednesday, 15:00-17:00*

Teaching Staff:

Dr. Avraham Ebenstein

Course/Module description:

The course presents the economic approach and principles of environmental and natural resource management

Course/Module aims:

Teaching the economic principles and methods for optimal management of environmental and natural resources from a social point of view

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

To analyze problems of environmental and natural resource management from an economic point of view, using common analytical tools in this discipline

Attendance requirements(%):

None

Teaching arrangement and method of instruction: Lectures based on power-point presentations + exercises

Course/Module Content:

The development of the awareness to environmental problems and the relations economics-environment-natural resources.
The ethical approach versus the economic incentive.
Concepts of environmental and natural resource economics and welfare economics.

Environmental policies, environment and macro economics, environment and politics.
Externalities in production and consumption.
Governmental intervention tools - taxes, quotas, tradable pollution permits.
Pollution prevention and the Coase theorem.
Free access and the tragedy of the commons.
Financing public goods and the free-riding problem.
Methods for evaluation of externalities: averting behavior, travel costs, hedonic prices, contingent valuation.
Sustainable management of natural resources - weak steady state, scarcity values.
Optimal utilization of renewable resources under a steady state.
Dynamic optimal management of non-renewable natural resources.

Required Reading:
PPT Presentations

Additional Reading Material:
Cropper M. L. and Oates W. E., "Environmental Economics: A Survey," Journal of Economic Literature, 1992, vol. 30, pp. 675-740.

Field, C. Barry and Field, K. Matha. "Environmental Economics: An Introduction," New York, McGraw/Irwin, Third Edition, 2002.

Hartwick, M. John and Olewiler, D. Nancy, "The Economics of Natural Resource Use," Addison-Wesely, Second Edition, 1998.

Kahn, R. James. "The Economic Approach to Environmental and Natural Resources," Ohio, South-Western, Second Edition, 1998.

Course/Module evaluation:
End of year written/oral examination 75 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 25 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information:
None