



A3. ENVIRONMENTAL AND RESOURCE ECONOMICS WITH EMPHASIS ON COASTAL AND MARINE ENVIRONMENTS OF EASTERN MEDITERRANEAN

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Course outline-lectures

1. Introduction

- Economics and Resource management
- Economics and the environment

2. Basic Principles

- The Economic Approach: Property Rights, Externalities and Environmental Problems
- Public Goods and Public Bads
- Common Property Resources
- Externalities and Environmental Protection

3. Methods and Tools

- Evaluating Trade-offs: Benefit-Cost Analysis and other Decision-Making Metrics
- Dynamic Efficiency

4. Environmental Economics

a) Externalities and Environmental Protection

- Economics of Pollution Control
- Global Pollution
- Climate Change
- Water Pollution

b) Environmental Policy

- Pigouvian Fees
- Emission Fees and Marketable Permits
- Environmental Agreements
- Environmental Justice
- Growth and the Environment
- Pollution and Development

5. Natural Resource Economics

- Depletable Resource Allocation: The Role of Longer Time Horizons, Substitutes and Extraction Cost
- Energy: The Transition from Depletable to Renewable Resources
- Recyclable Resources: Minerals, Paper, Bottles, and E-Waste
- Replenishable but Depletable Resources: Water
- Storable, Renewable, Resource: Forests
- Common-Pool Resources: Fisheries

6. Coastal and Marine Management

- Why should we care about the loss or degradation of marine and coastal
- Ecosystems and their services?
- Fundamentals of fisheries bioeconomics
- The Schaefer logistic growth model
- Ecosystem Modeling and Fisheries Management
- Economic Trends in Global Marine Fisheries
- Climate Change and Fisheries Management





Readings:

Main textbook:

T. Tietenberg and L. Lewis (2012), Environmental and Natural Resource Economics, 9th edition. Prentice Hall.

Additional Readings:

1. R. Quentin Grafton, Ray Hilborn, Dale Squires, Maree Tait and Meryl J. Williams (Editors) (2010) Handbook of Marine Fisheries Conservation and Management, Oxford University Press, New York, NY.
2. Lee G. Anderson and Juan Carlos Seijo (2010) Bioeconomics of Fisheries Management, Blackwell Publishing Ames, Iowa

Additional readings on Environmental and Resource Economics:

1. Baumol W.J. and Oates W.E. (1988). The Theory of Environmental Policy, Second Edition, Cambridge University Press, Cambridge.
2. Dorfman, R. and N. Dorfman, Eds. (1993). Economics of the Environment: Selected Readings. New York, Norton.
3. Field, B. C. and Olewiler N.D. (1994). Environmental Economics: First Canadian Edition. McGraw Hill, Toronto.
4. Kahn James R. (1998). The Economic Approach to Environmental and Natural Resources, Second Edition, The Dryden Press, Toronto.
5. Lesser, J. A., D. E. Dodds, and R. Zerbe, Jr. (1997). Environmental Economics and Policy. Addison-Wesley.
6. Pearce, D. W. and R. K. Turner (1990). Economics of Natural Resources and the Environment. New York, Harvester Wheatsheaf.
7. Costanza R., J. Cumberland, H. Daly, R. Goodland and R. Norgaard (1997). An Introduction to Ecological Economics, St. Lucie Press, Boca Raton, Florida.

