



# UNIVERSITY OF PIRAEUS

<b>FACULTY/SCHOOL</b>	<b>School of Economics, Business and International Studies</b>		
<b>DEPARTMENT</b>	<b>Department of Economics</b>		
<b>LEVEL OF STUDY</b>	<b>Undergraduate</b>		
<b>COURSE UNIT CODE</b>	<b>OKOIK63</b>	<b>SEMESTER</b>	<b>6</b>
<b>COURSE TITLE</b>	<b>ENVIRONMENTAL ECONOMICS</b>		
<b>WEEKLY TEACHNG HOURS</b>	<b>4</b>	<b>CREDITS (ECTS)</b>	<b>5</b>
<b>COURSE TYPE</b>	Scientific expertise		
<b>PREREQUISITE COURSES</b>	-		
<b>INSTRUCTION LANGUAGE</b>	Greek	<b>ASSESSMENT LANGUAGE</b>	Greek
<b>OPEN TO ERASMUS</b>	Yes		

<b>LEARNING OUTCOMES</b>	<p>This course provides a general overview, from an economic point of view, of policies for the use of natural resources and for managing the quality of the environment. The emphasis is on the methodology of approaching these issues with some references to topical applications such as greenhouse effect and environmental pollution. In particular, it initially presents the principles of its economic environment, including a cost-benefit analysis, and then briefly makes reference to the principles of use of renewable and scarce resources and to designing environmental policy on issues of air pollution, global pollution and water pollution. Finally, a brief reference is made to the wider issue of development, environment and equality.</p> <p>The objectives of the course are:</p> <ul style="list-style-type: none"> <li>• To provide students with a comprehensive overview of the economic environment and the general context on which it is based.</li> <li>• Recruiting knowledge about the subject</li> <li>• Understanding the methodology related to this subject.</li> <li>• Strengthening some of the skills and critical faculty of the students. This is expected to be achieved both through the main educational process (lectures) and through the accompanying educational processes (lectures of invited speakers, assignment and presentation of research papers, commentary on current issues, etc.).</li> </ul>
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<b>GENERAL COMPETENCES</b>	<ul style="list-style-type: none"> <li>• Decision-making</li> <li>• Individual/Independent work</li> <li>• Adapting to new situations</li> <li>• Project planning and management</li> <li>• Introduction of innovative research</li> </ul>
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<b>COURSE CONTENT</b>	<ol style="list-style-type: none"> <li>1. Introduction to Energy Economics.</li> <li>2. Market failures and state intervention</li> <li>3. Environmental policy instruments (market based instruments, command and control measures)</li> <li>4. Economic policy for environmental degradation</li> <li>5. Economy and Environment (Pollution and economic growth, environmental Kuznets curve, Lorenz curve)</li> <li>6. Energy footprint</li> <li>7. World agreements for climate change (Kyoto Protocol, Paris agreement)</li> <li>8. Green taxes and tradable permits under symmetric and asymmetric information</li> <li>9. Energy sector and environment</li> </ol>
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<b>USE OF ICT IN TEACHING</b>	Use of ICT in lectures and in the communication with students.
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<b>COURSE DESIGN</b>		<b>Activity/Method</b>	<b>Semester workload</b>
		Lectures	52
		Essay writing	28
		Case studies	22
		Self-directed study	21
		Final Exam	2
		<b>Total</b>	<b>125</b>

<b>COURSE ASSESSMENT</b>	<p>Language of evaluation: Greek (English is used in cases of Erasmus+ students)</p> <p>Evaluation method: written essays and final examination (multiple choice and open-ended questions)</p>
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<b>SUGGESTED BIBLIOGRAPHY</b>	<ol style="list-style-type: none"> <li>1. Karkalakos S. and M. Polemis. Sustainable Development, Environment and Energy, Publisher Tsotras Athanasios, 2015</li> <li>2. Tietenberg Tom, Lewis Lynne, Environmental Economics and Natural Resources, Publisher: G and K Dardanos, 2010</li> <li>3. S. Karvounis, J. Georgakellos. Environmental management, Publisher: Markella Varvarigou</li> </ol> <p>Related scientific journals:</p>
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- JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT
- ENVIRONMENTAL AND RESOURCE ECONOMICS
- RESOURCE AND ENERGY ECONOMICS
- BUSINESS STRATEGY AND THE ENVIRONMENT
- THE ENERGY JOURNAL
- ENERGY ECONOMICS