

UNIVERSITY OF PIRAEUS					
FACULTY/SCHOOL	School of Economics, Business and International Studies				
DEPARTMENT	Department of Economics				
LEVEL OF STUDY	Undergraduate				
COURSE UNIT CODE	ОКЕФП01				
COURSE TITLE	ENERGY ECONOMICS AND NATURAL RESOURCES				
WEEKLY TEACHNG HOURS	4	CREDITS (ECTS	CREDITS (ECTS) 5		
COURSE TYPE	Scientific expertise				
PREREQUISITE COURSES					
INSTRUCTION LANGUAGE	Greek	ASSESSMENT I	ASSESSMENT LANGUAGE Greek		
OPEN TO ERASMUS	Yes				
LEARNING OUTCOMES	procedures and practices. During the cou- economies are addressed. The main purpo- knowledge and skills for the design, devel- and practices. In this context, the dema analyzed in detail both on the basis of development in order to identify the main the results of the above analysis, useful co- time. In addition, the structure of energy in particular emphasis on the institutional fra the same time, in the course of the co- developed, while the cognitive areas of the policy are covered. After successful comple functioning of the energy markets. He w expertise and empirical analysis of energy	appropriate knowledge and skills for the design, development and implementation of energy policy procedures and practices. During the course, the most important energy issues facing modern economies are addressed. The main purpose of the course's subject is to provide the appropriate knowledge and skills for the design, development and implementation of energy policy processes and practices. In this context, the demand for energy products (natural gas and electricity) is analyzed in detail both on the basis of its past years and on the projections for its future development in order to identify the main factors affect its level in the short and long term. From the results of the above analysis, useful conclusions can be drawn for the course of demand over time. In addition, the structure of energy markets is analyzed at the Greek and European level, with particular emphasis on the institutional framework governing the electricity and gas networks. At the same time, in the course of the course, the issues of natural resources economics are developed, while the cognitive areas of the regulation of the energy markets and of the competition policy are covered. After successful completion of the course, the student will be fully aware of the functioning of the energy markets. He will also have acquired skills in practical issues such as expertise and empirical analysis of energy models, while being able to understand regulatory issues related to energy planning and the liberalization of energy markets (electricity and gas).			
GENERAL COMPETENCES	Decision-making				
	Individual/Independent work				
	Adapting to new situations				
	Project planning and management				
	Introduction of innovative research				
COURSE CONTENT		Introduction to Energy Economics, Review of the Basics of Supply, Demand and Price formation			
	in Competitive Markets.  2. Energy Demand: Short Run and Long Run Price and Income Elasticities.  3. Structure of the Electricity Industry (demand, supply).  4. Structure of the Natural gas Industry (demand, supply).  5. Structure of the Petroleum industry (demand, supply)  6. European Energy Markets – Legal Framework  7. Regulatory and competition policies in the energy markets.  8. Energy and Climate Change, Market Based Instruments, Taxation and Tradable Permits.  9. Renewable Energy Sources.  10. Econometric assessment of energy and environmental models.  11. Energy Efficiency Policies and Strategies				
USE OF ICT IN TEACHING	Use of ICT in lectures and in the communic				
COURSE DESIGN	Activity/Method		ter workload		
	Lectures Essay writing Case studies Self-directed study Final Exam		52 20 30 21 2		
COLIDSE ASSESSMENT	Total	used in cases of Erasmus: a	125		
COURSE ASSESSMENT	Evaluation method: written essays and fin	Language of evaluation: Greek (English is used in cases of Erasmus+ students)  Evaluation method: written essays and final examination (theory evaluation)			
SUGGESTED BIBLIOGRAPHY	Karkalakos S. and M. Polemis. Sustainable Development, Environment and Energy,     Publisher Tsotras Athanasios, 2015     Halkos G. Natural Resources Economics and Environment, Publisher Disigna, 2016.				

2) Halkos G. Natural Resources Economics and Environment, Publisher Disigma, 2016

Tietenberg Tom, Lewis Lynne, Environmental Economics and Natural Resources, Publisher:     G and K Dardanos, 2010 - Related scientific journals: THE ENERGY JOURNAL ENERGY ECONOMICS	
RESOURCE AND ENERGY ECONOMICS	
ENERGY POLICY	
JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT	