



UNIVERSITY OF NICOSIA

ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

Course Code ENEM 105	Course Title Intro to Energy Management	ECTS Credits 6
Department Life and Health Sciences	Semester Fall	Prerequisites None
Type of Course Major Requirement	Field Environmental and Energy Management	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 1 st	Lecturer(s) Dr James Leigh
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

- Provide an introduction to the fundamentals of the energy business and give an overview of the basic functional forces with particular reference to oil and gas
- Develop an understanding of the energy resources in the world as a basis for understanding the energy business

Learning Outcomes

1. Understand the concept of energy and its interaction with the environment
2. Understand primary energy production, energy reserves and consumption, and energy transformations such as renewable energy technologies
3. Gain knowledge on EU and Cyprus energy legislation
4. Gain knowledge on how to apply energy management techniques to reduce energy consumption and improve energy efficiency in the industry, the building sector and transportation

Course Content:

History of energy, price, markets, security and alternatives, oil demand and supply (Peak Oil and the Olduvai Theory), oil pricing, energy commodities markets, new industry structure, energy security, organizing principles and alternatives to oil.

Teaching Methods:

Lectures, In-class exercises, In-class discussions and homework

Assessment Methods:

Assignments, mid-term exam, final exam
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Required Textbooks:

Van Vactor, S. (2010) Introduction to the Global Oil and Gas Business, Tulsa, OK, Penwell Corp

Recommended Textbooks:

Authors	Title	Publisher	Year	ISBN
Biggs, C.	Energy: Management, Supply and Conservation	Butterworth-Heinemann	Oxford, 2009	
Cottrell, F.	Energy and Society (Revised): The Relation Between Energy, Social Change and Economic Development	Columbia University Press	New York, 2009	
Landau, E.	The History of Energy	Twenty First Century Books	Minneapolis, MN, 2005	
Leigh, J.	Student Handbook	University of Nicosia		
No Name	Student Atlas	Collins Longman	Latest	
Odum, H.	Environment, Power, and Society for the Twenty-First Century: The Hierarchy of Energy	Columbia University Press	New York, 2007	
Pimentel, D.	Food Energy and Society	CRC Press	Boca Raton, FL, 2007	