



Course Code OGEN-110	Course Title Energy Technologies for the Future	ECTS Credits 6
Department School of Business	Semester Fall	Prerequisites None
Type of Course Major Elective	Field Energy, Oil and Gas Management	Language of Instruction English
Level of Course Undergraduate	Year of Study 1 st	Lecturer(s) Dr Marios Valiantis
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

To provide the student with the knowledge and understanding of the different conventional and new energy sources available.

Learning Outcomes:

On completion of this module, students are expected to:

1. Gain knowledge on the historical perspective of energy.
2. Understand the issues associated with energy production from conventional sources of energy and the ultimate desire to move toward a renewable energy economy.
3. Understand how green future technologies can solve the energy problems in the future.

Course Content:

Conventional energy sources such as oil, natural gas, water power, nuclear power; new type of energy sources such as wind power, solar power, ocean power, biofuels, hydrogen energy; transporting energy; energy saving measures; future solutions to energy problems

Teaching Methods:

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

Assessment Methods:

Assignments, mid-term exam, final exam

Required Textbooks:

Authors	Title	Publisher	Year	ISBN
Daniel B Botkin	<i>Powering the Future: A Scientist Guide to Energy Independence</i>	FT Press	2010	
	<i>Lecture Notes</i>			