University of Nicosia, Cyprus

Course Code	**Course Title**	**ECTS Credits**
ENEM-110	Energy Technologies for the Future	6
Department	**Semester**	**Prerequisites**
Life and Health Sciences	Spring	None
Type of Course	**Field**	**Language of Instruction**
Major Requirement	Environmental and Energy Management	English
Level of Course	**Year of Study**	**Lecturer(s)**
1st Cycle	2nd	Dr Marios Valiantis
Mode of Delivery	**Work Placement**	**Co-requisites**
face-to-face	N/A	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:

PPT Lectures, Videos, Readings, In-class discussions

Assessment Methods

Midterm Examination	**25%**
Pop Quiz	**5%**
Group Project and Presentation	**20%**
Attendance - Participation	**10%**
Final Exam	**40%**

Required Text Books

Authors	**Title**	**Publisher**	**Year**	**ISBN**
Daniel B Botkin	*Powering the Future: A Scientist Guide to Energy Independence*	FT Press	2010	
Marios Valiantis	*Lecture Notes*			