



# UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

<b>Course Code</b> OGEN-410	<b>Course Title</b> Ecosystems and Environmental Quality	<b>ECTS Credits</b> 6
<b>Department</b> Management & MIS	<b>Semester</b> Fall / Spring	<b>Prerequisites</b> None
<b>Type of Course</b> Major Elective	<b>Field</b> Energy, Oil and Gas Management	<b>Language of Instruction</b> English
<b>Level of Course</b> Undergraduate	<b>Year of Study</b> 4 <sup>th</sup>	<b>Lecturer(s)</b> Dr Iris Charalambidou
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

## **Objectives of the Course:**

- Understand the basic structure and functioning of ecosystems;
- Understand the impacts of selected anthropogenic activities on ecosystems;

## **Learning Outcomes:**

On completion of this module, students are expected to be able to:

1. Understand the major structural and functional aspects of selected ecosystems.
2. Understand the role of the major biogeochemical cycles.
3. Understand the ways in which ecosystems respond to natural and human-induced environmental change.
4. Understands the aspect of environmental quality in terrestrial environments

## **Course Content:**

- biogeography, climate/vegetation patterns and ecological processes
- structure and functioning of major ecosystem types such as woodlands, Mediterranean scrub land, agro-ecosystems, aquatic ecosystems.
- human influences on ecosystems, including examples of management

- climate change and air pollutants: impacts on ecosystems
- handling of ecological data, descriptive statistics.

**Teaching Methods:**

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

**Assessment Methods:**

Assignments, mid-term exam, final exam

**Required Textbooks:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
Gordon Dickinson Kevin Murphy	<i>Ecosystems</i>	Routledge	2009	

**Recommended Textbooks / Reading:**

1. Barnes, R. & Mann, K. (1991). *Fundamentals of aquatic ecology* (2nd Ed)
  2. Beeby, A. & Brennan, A. (2008). *First ecology* (3<sup>rd</sup> edition). OUP.
  3. Begon, M., Harper J. & Townsend C. (2005). *Ecology: from individuals to ecosystems*. Blackwell Scientific.
  4. Dobson, M. & Frid, C. (1998). *Ecology of aquatic systems*. Longman
-