



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

Authors	Title	Publisher	Year	ISBN
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* (3rd 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
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