



<b>Course Code</b> OGEN-225	<b>Course Title</b> Global Climate Change and Adaptation	<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> 2 <sup>d</sup>	<b>Lecturer(s)</b> Dr Marios Valiantis
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

**Objectives of the Course:**

- Develop an understanding of Climate Change and its effects in a multi-disciplinary approach;
- Develop an understanding on how climate change is changing the world we live in;
- Investigate and understand measures taken at international, EU and national level for adapting to climate change;

**Learning Outcomes:**

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

1. Understand the main natural processes involved in climate change and the main factors affecting it.
2. Evaluate the evidence for climate change.
3. Develop knowledge on climate change interactions with particular sectors with regards to
  - a. Their contribution to climate change
  - b. Their sensitivity to climate change
  - c. Potential adaptation to climate change
4. Critically review policy measures to adapt to the impacts of climate change.

**Course Content:**

Past climate change and the natural greenhouse effect; climate change and human activities; factors affecting changes in the earth's average temperature; global warming; projecting future changes in earth's climate; possible effects of a warmer world; risk and governance transition; adaptation within the government and organisations; adaptation in agriculture, water, transport, energy, economy, health, lifestyle.

**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>
John Houghton	<i>Global Warming: The Complete Briefing</i>	4 <sup>th</sup> Edition, Cambridge University Press	2009	
Worldwatch Institute	<i>2009 State of the World: Confronting Climate Change</i>	Earthscan, London	2009	