



# UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

<b>Course Code</b> OGAS-212	<b>Course Title</b> Petroleum Geology	<b>ECTS Credits</b> 6
<b>Department</b> School of Business	<b>Semester</b> Fall	<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>nd</sup>	<b>Lecturer(s)</b> Toumazis Toumazi
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

## **Objectives of the Course:**

To consider systematically the major geological requirements for the formation and entrapment of oil and gas and have an understanding of reservoir estimation.

## **Learning Outcomes:**

On completion of this module, students are expected to:

1. Understand the place of oil and gas in the world energy scene and to make.
2. Be familiar with the main geological factors that control the formation and entrapment of hydrocarbon.
3. Gain reasonable knowledge of the wide type of reservoirs
4. Gain knowledge on reservoir estimation

## **Course Content:**

- 1/ Nature of Oil and Gas
- 2/ The Earth's Crust
- 3/ Common Rocks and Minerals
- 4/ Deformation of Sedimentary Rocks
- 5/ Sandstone Reservoir Stones
- 6/ Carbonate Reservoir
- 7/ Sedimentary Rocks
- 8/ Mapping
- 9/ Ocean Environment and Plate Tectonics
- 10/ Source Rocks
- 11/ Petroleum Traps

**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>
Horman J. Hayne	<i>Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production (3<sup>rd</sup> edition)</i>		2012	
	<i>Lecture Notes</i>			