

Course Syllabus

CONTEMPORARY TOPICS IN OCEANOGRAPHY

Printed by: jcedeno

Program: Oceanographic Engineering

1. Course number and name

OCEG1021 - CONTEMPORARY TOPICS IN OCEANOGRAPHY

2. Credits and contact hours

3 credits and 3 contact hours

3. Instructor's course or coordinator's name

JONATHAN MARCELO CEDEÑO OVIEDO

4. Text book, title, author, and year

- Open University. Case studies in oceanography and marine affairs (1st Edition)

5. Specific course information

- a. Brief description of the content of the course (catalog description)

This course will allow to analyze and discuss current topics in sea sciences, and that are of immediate relevance to Ecuador. These focus on a) Earth observations, mainly by satellite media; (b) Galapagos Islands, and their physical environment, oceanographic, ecological and governance aspects; (c) Convention of the Sea, and establishment of maritime spaces, jurisdiction, sovereignty and exploitation of natural resources under these areas, and their applicability in Ecuador; and d) Risk management, threat and vulnerability concepts, and exposure, susceptibility and resilience, and Risk Management in Ecuador.

- b. This course is: Selected elective

6. Specific goals for the course

- a. Specific outcomes of instruction

1.- Identify and leverage information from major terrestrial, oceanic and satellite observation networks.

2.- Describe the physical and ecosystemic characteristics of the Galapagos Islands, and propose strategies to ensure their sustainability.

3.- Identify the main legal definitions that Convemar has about maritime spaces, as well as its main regulations on the use and harnessing of its resources.

4.- Recognize and propose actions aimed at reducing the risk of disasters in the territories.

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course

7. Brief list of topics to be covered

1.- Earth Observations

2.- Galapagos Islands

3.- Convention of the Sea (Convemar)



Course Syllabus

CONTEMPORARY TOPICS IN OCEANOGRAPHY

Printed by: jcedeno

Program: Oceanographic Engineering

4.- Risk Management