

## Course Syllabus

### PORTS II

Printed by: jcedeno

Program: Oceanographic Engineering

#### 1. Course number and name

OCEG1010 - PORTS II

#### 2. Credits and contact hours

2 credits and 3 contact hours

#### 3. Instructor's course or coordinator's name

JONATHAN MARCELO CEDEÑO OVIEDO

#### 4. Text book, title, author, and year

- Fuentes, C.. Ingeniería Portuaria (1ª Edición,)

a. Other supplemental materials

• McDonel, G., Pindter, J., Herrejón, L., Pizá, J., López, H.,. Ingeniería Marítima y Portuaria (4ta)

- Puertos de España.. Normas ROM. Recomendaciones para Obras Marítimas. ()

#### 5. Specific course information

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

This course covers topics related to port areas that allows students to design port works including piles, heads, screens, fenders, loading beams, mooring beams, slabs, retaining walls, sheet piles and other elements.

- b. Prerequisites

REINFORCED CONCRETE DESIGN - CIVG1018

PORTS I - OCEG1009

Co - Requisites

DREDGING - OCEG1015

- c. This course is: Required

#### 6. Specific goals for the course

- a. Specific outcomes of instruction

1.- Calculate different types of loads acting on structural elements for the design of port works.

2.- Compare different port equipment to determine mobile loads acting on structural elements of port works.

3.- Analyze port structures through the use of calculation methods for their proper design.

4.- Design structural elements, in reinforced concrete, to be used in port works.

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



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#### 7. Brief list of topics to be covered

- 1.- Previous studies
- 2.- Cargo and port equipment
- 3.- Infrastructure elements
- 4.- Elements of superstructure

