

Course Syllabus

1. **Course number and name:** 020OUMGS5 – Maritime Structures
2. **Credits and contact hours:** 2 credits – 17.5 hours
3. **Instructor's or course coordinator's name:** Hassane DEGHAILI
4. **Textbook and other supplemental material:**
 - a. Instructor's Class Notes
5. **Specific course information**
 - a. **Catalog description:** Give students the basics in order to be able to calculate the maritime effects on the components of a port or a maritime work.
 - b. **Prerequisites:** ???
 - c. **Required/Elective/Selected Elective:** Required major course for Water and Environment Specialty students.
6. **Specific goals for the course**
 - a. **Specific outcomes of instruction:** ????
 - b. **KPIs addressed by the course:**

KPI	a1	a2	c3	e3	g1	k1	k3
Covered							
Assessed							
Give Feedback							

7. **Brief list of topics to be covered and approximate number of lectures:**
 - a. Swell and seiche
 - b. Seawater
 - i. Physical and chemical properties
 - ii. Action of the sea on building materials
 - c. Principles for the establishment of a seaport. External Works
 - d. External works of ports
 - i. Embankment dams
 - ii. Vertical Dams
 - e. Interior works of ports – General
 - f. Docking works
 - g. Tools for seaports
 - h. Clearance of access channels for ports and bodies of water. Survey- Dredging, Refloating of wrecks.
 - i. Dredges and retractions
 - ii. Refloating of wrecks