

Department: Civil & Environmental Engineering
Level and Major: Graduate - Marine & Coastal Engineering

Division: Civil engineering

Course Title: Basics of design of (ordinary) marine structures

Number of Credits: 3

Prerequisite (Corequisite): Structural analysis (I), Concrete Technology Lecturer: -

Course Topic

- General acquaintance with different types of marine structures
- Investigating the location of marine structures
- Estimation of forces on marine structures (waves, storm, ocean currents, etc.)
- Design a variety of fixed jetties (pile and deck, caisson, sheet)
- Design of sloping dikes
- Design of coastal walls
- Principles of designing shock absorber
- Investigate the issue of fatigue in marine structures and pay attention to it in design
- A review of the types of fixed and mobile sloping dikes
- A review of protection and Maintenance and repair in marine structures and its importance
- A review of design of resistant marine structures against the earthquake
- A review of the basics of designs of ordinary marine structures based on performance

Course Description:

Reading Sources:

Course Goals and objectives:

Evaluation:

Course topics:

The course aims to: