

Code: 32 „Stability and Motions of Ships and Marine Structures – Part 2”

ECTS credits: 5

Number of hours per week: 1+0+1

Forms of assessments: Exam

Types of assessment: Избери от тук.

Department, providing instruction on the discipline:

Department: *NAVAL ARCHITECTURE AND MARINE ENGINEERING*

FACULTY OF SHIPBUILDING

Lecturer: Prof. DSc. Petar Kolev

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Annotation:

The subject is intended to introduce the students to the modern methods of investigation of the dynamics of marine structures. It provides basic knowledge on motions of ships and marine structures at sea and on launching of ships.

Main issues of the syllabus content:

- Launching of ships
- Practical problems in ship theory
- Basics of the hydrodynamic theory of ship motions
- Linear theory of transverse oscillations
- Linear theory of longitudinal oscillations
- Non-linear theory of ship motions
- Motion stabilizers.

Content presentation:

The subject is taught in the form of lectures, laboratory exercises and consultations on developing the course work.