

Code: 38,,Structural Mechanics of Ships and Marine Structures”

ECTScredits: 7

Number of hours per week: 2+0+2

Forms of assessments:Exam

Types of assessment: Exam - written
with oral discussion

Department, providinginstruction on the discipline:

Department: *NAVAL ARCHITECTURE AND MARINE ENGINEERING*
FACULTY OF SHIPBUILDING

Lecturer: Assoc. Prof. Hr. Trendafilov

Department: *NAVAL ARCHITECTURE AND MARINE ENGINEERING*

Tel..Напиши тук.

e-mail: Напиши тук.

Annotation:The course presents the mechanics of the solid and deformable body. The main equations of the theory of elasticity and the methods for solving them are studied in order to determine the stresses and deformations of the solid deformable bodies (structural elements of ships and marine structures)

Main issues of the syllabus content:

- stress theory;
- theory of deformations;
- equation of physics;
- mathematical model of the problem;
- twisting of prismatic rods;
- planar task;
- beam bending;
- ship frames;
- bending of grid beams;
- plate bending;
- buckling of rods and rod systems;
- buckling of rectangular plates .

Content presentation:

- Lectures
- Laboratory exercises
- Consultations on course assignments