

Code: 54 „Design of Ships and Marine Structures - project”

ECTS credits: 2	Number of hours per week: 0+0+0
Forms of assessments: Course project	(30)
	Types of assessment: Project defense
Department, providing instruction on the discipline: Department: Избери тук. <i>FACULTY OF SHIPBUILDING</i>	

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Annotation: The course "Design of Ships and Marine Structures - Project" is devoted to the design of a merchant (multipurpose) ship in a phase corresponding to the conceptual ship design. The aim is the students to apply their knowledge gained during the lectures and laboratory exercises.

Primarily attention is given to determination the main ship characteristics; ship load (i.e. the mass of the lightship items). Design solutions are obtained by the basic equations of the ship design theory - equations of buoyancy, mass, capacity and trim and stability. The ship hull form is extensively developed to detail by using affinity transformations and/or modification of existing forms.

The graphical part includes a drawing of general arrangement, tank arrangement, container capacity and theoretical lines. It is required that the drawings be prepared by AutoCAD or similar CAD software. Project includes freeboard calculation according to International Convention on Load Lines and intact stability evaluation according to the International Stability Code.

Main issues of the syllabus content:

- Selection an appropriate prototype
- Determination of main dimensions
- Freeboard calculation
- Selection of main engine and propeller design.
- Theoretical lines
- Calculations of hydrostatic properties
- Preparation of general arrangement plan
- Preparation of tank arrangement plan
- Typical loading conditions
- Preparation of report

Content presentation:

- Course project