

Code: 34 „Electrical equipment of ships and marine structures”

ECTS credits: 5

Forms of assessments: Exam

Number of hours per week: 2+0+2

Types of assessment: Exam - written with oral discussion

Department, providing instruction on the discipline:

Department: *ELECTRICAL POWER SUPPLY AND ELECTRICAL EQUIPMENT*
FACULTY OF ELECTRICAL ENGINEERING

Lecturer: Head Ass. Prof, Dr. Zhivko Grozdev

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Annotation:

The subject Electrical Equipment of Ships and Marine Structures is a generalization of the subjects Electrical Engineering and Electronics” etc.

The objective of the course is familiarize the students with the specific conditions of operation of electrical equipment onboard the ship, the units of the ship electrical and power system, specific electrical protection devices, the main electrical drives onboard, as well as with the assembling the electric system and ship electric safety.

The mastering of the theoretical issues is assisted by the corresponding laboratory exercises.

Main issues of the syllabus content:

- Introduction. Specific operational conditions of marine electrical equipment;
- Elements of ship automatics;
- Marine electric power systems;
- Ship electric drives;
- Processes of electrical assembly;
- Electrical protection of marine electrical systems.
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Content presentation:

Lectures on the issues listed above.

Laboratory exercises for getting practical knowledge and skills related to marine electrical systems.