Code: 37„Ship deck machinery and auxiliary ship systems”

ECTScredits: 4	Number of hours per week: 2+0+1
Forms of assessments:Exam	Types of assessment: Exam - written with oral discussion

Department, providinginstruction on the discipline:

Department: *THERMAL ENGINEERING*
FACULTY OF SHIPBUILDING

Lecturer: Assoc.Prof.Dr.An.Yangyozov

Department: *THERMAL ENGINEERING*

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Annotation:

The course objective is to give the students the theoretical understanding, basic knowledge about ship deck equipment, mooring and anchor equipment, steering gear constructions, cargo handling equipment, lifeboat equipment and ship cranes as well as common purpose systems.

The course provides essential background and fundamental concepts for operation of bilge and ballast systems, firefighting systems, compressed air systems, specialized systems for oil tanker ships and gas tanker ships and ventilation systems.

Main issues of the syllabus content:

- Steering gear.Operation of ship steering gears
- Anchor equipment
- Mooring equipment
- Lifeboat equipment
- Cargo handling equipment
- Auxiliary systems on ship
- Specialized systems for tankers

Content presentation:

The course topics are presented using posters, slides, digital projector and specialized software for ship machinery performance evaluation. The calculations are performed with computers connected to digital projector.

Laboratory exercises are conducted in specialized laboratory of ship deck equipment. During laboratory classes are measured important machinery parameters as pressure and capacity. The flow parameters are measured with flow meter, manometers and vacuum gauges