

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
GEM204	Marine Aux. Machineries I	3	3	0	1	3.5	4

Prerequisites

Admission Requirements

Language of Instruction Turkish

Course Type Compulsory

Course Level Associate Degree

Objective The course provides comprehensive description and offers elaborated explanation for different marine auxiliary machinery systems so that the marine engineering officers understand the rules and regulations and principles of maintenance and running of these machines.

The basics of auxiliary boilers, types and structure of boilers, corrosion in the boilers and steam distribution, running of the boilers, heat distributors.

Content Types of pumps and working principles, pumping systems and controls, Ballast, Bilge, Fire Extinguisher Pumps and their systems

Types of Air compressors and their working systems

Fuel, Fuel separators, bilge separators and waste water systems

Buhar Kazanları Ders Notları/Prof.Dr.Hüsamettin Bulut

References Megep Gemi Yardımcı Makinaları

Megep Gemi Dizel Motorları-2

Theory Topics

Week	Weekly Contents
1	Introduction to concepts
2	Basics of Steam boilers and the types of boilers
3	Fire-Tube Boilers - usage and structures
4	Water-Tube boilers - usage and structures
5	Drum and Heder Boilers
6	Uptake and port boilers
7	Economizers and safety valves
8	Mid term
9	Introduction to pumps - structure and types
10	Ballast, Bilge, fire pumps and their systems
11	Air Compressors and their working systems
12	Fuel and lubricating separators, working systems and maintainance
13	Bilge separator and waste water systems
14	General evaluation