Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
GÜV303	Navigation- I	1	4	0	2	5	6

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Compulsory
Course Level	Associate Degree
Objective	To teach the basic information about the ship navigation to the ship's deck officer candidates.
Content	Definition and history of navigation, the World coordinate system, directions, compasses (magnet and gyro), natural and artificial deviation, gyro error calculations. Düzeltmesiveli magnetic compass, making the course and bearing, map projections, Propertiies of navigation charts, mercator projection, nautical map; symbols and abbreviations, and notices to mariners and map, map catalogs and the use of lighthouses and fog signals, buoys and systems, electronic navigation aids, maps, and books, electronic charts and ECDIS, map datum, organizing and proteticon of nautical maps.
References	Navigation 1,Fethi Yağız,Lights anf Buoys Book,maps catalogs,nautical publications, Maps and parallel-compasses drawing tools.

Theory Topics

Week	Weekly Contents
1	Content and History of Navigation
2	Latitude Longitude differences
3	Directions, compasses (magnet and gyro), natural and artificial deviation, gyro error calculations.
4	Directions, compasses (magnet and gyro), natural and artificial deviation, gyro error calculations.
5	Magnetic compass adjustment, schedule deviation, making the course and bearing.
6	Magnetic compass adjustment, schedule deviation, making the course and bearing.
7	Map Projections and Navigational Charts
8	Symbols and abbreviations at the Navigational Charts
9	Lights and buoys
10	Lights and buoys
11	Electronic Navigational Aids
12	Electronic Navigational Aids
13	ECDIS
14	ECDIS