

## **TECHNICAL AIDS TO NAVIGATION (36)**

Annotation:

The subject aims at teaching the students the theory, structure and rule of operation of the technical aids of navigation, types of errors and their indications and ways to eliminate and determine them. As a result the students should be able to check and adjust the equipment aboard the ship.

Basic sections:

1. Main idea of acoustic theory;
2. Concepts of acoustic logs;
3. Concepts of ships absolute speed measure instruments;
4. Concepts of ships radio Doppler logs ;
5. Concepts of shore systems for safe berthing.
6. Determining deviation of magnetic compasses;
7. Eliminating types of deviation of magnetic compasses;
8. Applied theory of gyroscopes;
9. Gyroscopes with autonomous sensitive elements and influence of ship maneuvering factors on its accuracy.