Course CodeCourse NameSemester Theory Practice Lab Credit ECTSDUI211Navigation III330245

Prerequisites

Admission Requirements

Language of Instruction Turkish

Course Type Compulsory

Course Level Associate Degree

1. To determine the ship's position on the ocean,

Objective 2. To use concept of the Celestial Coordinates, Time and Apparent Motions of Celestial Body, the Celestial

Sphere, composition and dimension of the Solar System for understanding and determining the ship's position.

Introduction to celestial navigation, definition of the space, celestial sphere, composition and dimensions of the Solar System, explanation of the eccentricity of the earth's orbit and the apparent annual motion of the Sun, the meaning of

the Dec-SHA-RA-GHA-LHA, definition of the apparent solar time and mean solar time, time, equation of time, date line, explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and

position, using of NP 401, HO 229 and Almanac.

1) Astronomik Seyir 1 Süha Baytura

References 2) Kişisel Ders Notlarım

3) Notik Almanak

Theory Topics

Content

Week **Weekly Contents** 1 Introduction to celestial navigation, definition of the space, celestial sphere Composition and dimensions of the Solar System, explanation of the eccentricity of the earth's orbit and the apparent annual motion of 2 the Sun 3 the meaning of the Dec-SHA-RA-GHA-LHA 4 the meaning of the Dec-SHA-RA-GHA-LHA 5 Definition of the apparent solar time and mean solar time, time, equation of time, date line 6 Definition of the apparent solar time and mean solar time, time, equation of time, date line 7 Explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and position 8 Explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and position 9 Explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and position 10 Explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and position Explanation of astronomical triangle on the celestial sphere, finding and drawing of the astronomical fix and position 11

- using of NP 401, HO 229 and Almanac.
- using of NP 401, HO 229 and Almanac.