Course Code Course Name Semester Theory Practice Lab Credit ECTS

GÜV331 Navigation- IV 4 3 0 2 4 5

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.

Göksel seyire giriş, Evren, Güneş sistemi iç ve dış gezegenleri, Gök Küresi, Gök Koordinat Sistemi, Güneş sistemi vanısı ve boyutları. Yer Küresi hareketlerinin açıklanması. Güneşin Görünsel vıllık hareketi. Dec-SHA-RA-GHA-

yapısı ve boyutları, Yer Küresi hareketlerinin açıklanması, Güneşin Görünsel yıllık hareketi, Dec-SHA-RA-GHA-LHA kavramları, Gözüken Güneş ve Ortalama Güneş Vakitleri, Zaman, Zaman denklemi, Tarih hattı, Astronomik

Seyir Üçgeni, Baş ucu mesafesi, Intersept ve astronomik mevki hattı çizimi, Astronomik pozisyon mevkisi tespit ve

işaretleme, NP 401, HO 229 ve Almanak kullanımı.

1) Astronomik Seyir 2 Süha Baytura

References 2) Kişisel Ders Notlarım

3) Notik Almanak

Theory Topics

Content

Weekly Contents

Introduction to celestial navigation, definition of the space, celestial sphere

- 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 Composition and dimensions of the Solar System, explanation of the eccentricity of the earth's orbit and the apparent annual motion of 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
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