280610 - Coastal Navigation

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2017
Degree: BACHELOR'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010).
( Teaching unit Compulsory)
ECTS credits: 6
Teaching languages: Catalan

Teaching staff

Coordinator: AGUSTIN MARTIN MALLOFRE
Others: AGUSTIN MARTIN MALLOFRE - 1

Degree competences to which the subject contributes

Specific:
1. Knowledge of navigation techniques based on the determination of the position, heading, time, speed and distance. Ability to perform calculations: navigation co Ster kinematics of the ship, reckoning, plane sailing, navigation, great circle, celestial navigation, electronic navigation and inertial navigation. Lift charts.

Learning objectives of the subject

- To know and use the navigation techniques based on the determination of the ship's position, course, time, speed and distance.
- To carry out the calculations by: coastal navigation and dead reckoning.

Competencies
The specific CE 18 together with the assessment of the competence STCW in the chart A-II/1: "Plan and conduction a passage and determine the position", in its section of terrestrial and coastal navigation, electronic systems of position fixing and navigation, echo-sounders, "Maintain a safe navigational watch" en its sections of Watchkeeping and Bridge Resource management. Additionally the competence "Use of ECDIS to maintain the safety of navigation" is assessed partially.
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**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 20h</th>
<th>13.33%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 20h</td>
<td>13.33%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 10h</td>
<td>6.67%</td>
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<td></td>
<td>Guided activities: 10h</td>
<td>6.67%</td>
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<tr>
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<td>Self study: 90h</td>
<td>60.00%</td>
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</tbody>
</table>

**Content**

**ENG** Agulles nàutiques.

Degree competences to which the content contributes:

**ENG** Projeccions, cartografia.

Degree competences to which the content contributes:

**ENG** Navegació costanera, situacions a la vista de la costa.

Degree competences to which the content contributes:

**ENG** Navegació d'estima.

Degree competences to which the content contributes:

**ENG** Organització de la derrota.

Degree competences to which the content contributes:

**ENG** Estudi inicial de les marees, anuari de marees, sistemes de predicció.

Degree competences to which the content contributes:

**ENG** Pràctiques de simulador.

Degree competences to which the content contributes:
Bibliography

Basic:


Moreu Curbera, José María; Martínez Jiménez, G. de F. Astronomía y navegación. Vol. 1, Primer curso de náutica. 3a ed. Vigo: [s.n], 1987. ISBN 8485645014.

