280661 - Work Placement

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 MARINE TECHNOLOGIES (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 30
Teaching languages: Catalan

Teaching staff
Coordinator: JUAN ANTONIO MORENO MARTINEZ

Degree competences to which the subject contributes

General:
2. ABILITY TO SHAPE, MANAGE AND IMPLEMENT COMPLEX SYSTEMS IN THE FIELD OF MARINE ENGINEERING.
   Ability to design, management and implementation of processes, systems and / or services in the field of marine
   engineering, including the development of projects in the field of specialization, knowledge of basic materials and
   technologies, decision making, the management of the activities under the project, conducting measurements,
   calculations and valuations, managing specifications, regulations and mandatory standards, assessment of the social
   and environmental impact of technical solutions, economic valuation and resource human and material involved in the
   project, with a systematic and inclusive vision.

ENG) CG9. ABILITY TO SHAPE, MANAGE AND IMPLEMENT COMPLEX SYSTEMS IN THE FIELD OF MARINE
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assessment of the social and environmental impact of technical solutions, economic valuation and resource human
and material involved in the project, with a systematic and inclusive vision.

3. IDENTIFY I resoldre Capacitat PER L’Àmbit problemes IN MARINA DE L’ENGINYERIA.
   Capacitat per la plantejament i resolució de problemes de l’l’àmbit enginyeria assumint marina iniciatives, prenen
decisions i aplicant solucions creatives in the marc d’a systematic methodology.

Transversal:
1. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its
   relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most
   suitable information sources.

4. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an
   academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.
Learning objectives of the subject

Designs and implements a good strategy for advanced searches using specialized information resources. Identifies the relevance and quality of information.

Identify and model complex systems. Conducts analysis and qualitative approaches, establishing the uncertainty of the results. Raises hypotheses and experimental methods to validate them. It identifies major components and establishes commitments and priorities.

It performs the tasks from the guidelines set by the faculty, deciding the time and resources needed to achieve them. Assesses own strengths and weaknesses, acting accordingly.

Identify user needs and develops a definition of product-process-service as well as some initial specifications. Follows a management model of the design process based on a standard. Assesses the implementation of legislation and regulations.

Identifies the needs and market opportunities. Collect information to draw up the specifications of a new product, process or service. Prepares a basic business plan. Carried out the planning and implementation of a design process.

Acquires professional experience and a better understanding of the structure, organization, operation and activity of a business organization in the maritime sector and its environment.

You get new knowledge in the specific field in which is conducted the training activity.

Exercise generic and specific skills in a real work environment.

This course will evaluate the following STCW competences:

1. Maintain a safe engineering watch:
   Thorough knowledge of Principles to be observed in keeping an engineering watch, including:
   .1 duties associated with taking over and accepting a watch.
   .2 routine duties undertaken during a watch.
   .3 maintenance of the machinery space logs and the significance of the readings taken.
   .4 duties associated with handing over a watch.

Safety and emergency procedures; change?over of remote/automatic to local control of all systems.
   Safety precautions to be observed during a watch and immediate actions to be taken in the event of fire or accident, with particular reference to oil systems.

Engine-room resource management.
   Knowledge of engine-?room resource management principles, including:
   .1 allocation, assignment, and prioritization of resources.
   .2 effective communication.
   .3 assertiveness and leadership.
   .4 obtaining and maintaining situational awareness.
   .5 consideration of team experience.

5. Operate fuel, lubrication, ballast and other pumping systems and associated control systems
6. Operate electrical, electronic and control systems
7. Maintenance and repair of electrical and electronic equipment
9. Maintenance and repair of shipboard machinery and equipment
10. Ensure compliance with pollution-prevention requirements
12. Prevent, control and fight fires on board
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Study load

<table>
<thead>
<tr>
<th>Total learning time: 900h</th>
<th>Hours large group: 0h 0.00%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 10h 1.11%</td>
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<tr>
<td></td>
<td>Hours small group: 10h 1.11%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 70h 7.78%</td>
</tr>
<tr>
<td></td>
<td>Self study: 810h 90.00%</td>
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Content

(ENG) 1. Descripció i funcionament del propulsor

Degree competences to which the content contributes:

(ENG) -2. Descripció i funcionament dels sistemes auxiliars del vaixell

Degree competences to which the content contributes:

(ENG) -3. Descripció i funcionament del sistemes de seguretat

Degree competences to which the content contributes:

(ENG) -4. Descripció i funcionament dels sistemes de lluita contra la contaminació

Degree competences to which the content contributes:

Bibliography