Course guide
280612 - 280612 - Maritime Medicine

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering.
Degree: BACHELOR'S DEGREE IN MARINE TECHNOLOGIES (Syllabus 2010). (Compulsory subject).
BACHELOR'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010). (Compulsory subject).
Academic year: 2022 ECTS Credits: 3.0 Languages: Spanish

LECTURER
Coordinating lecturer: LUCAS MENGUAL MARTINEZ

Primer quadrimestre:
LUCAS MENGUAL MARTINEZ - Grup: DT, Grup: GNTM, Grup: GTM

Others: Primer quadrimestre:
LUCAS MENGUAL MARTINEZ - Grup: DT, Grup: GNTM, Grup: GTM

DEGREE COMPETENCES TO WHICH THE SUBJECT CONtributes

Specific:
CE13. Knowledge and ability to apply the principles of health education marina.

STCW:
ME.1. A-III/1-4. Function: Controlling the operation of the ship and care for persons on board at the operational level
ME.2. A-III/1-4.5 Apply Medical first aid on board ship
ME.3. A-III/1-KUP 4.5.1 Medical aid: Practical application of medical guides and advice by radio, including the ability to take effective action based on such knowledge in the case of accidents or illnesses that are likely to occur on board ship
ME.4. A-III/1-4.8 Contribute to the safety of personnel and ship
ME.5. A-III/1-KUP 4.8.3 Knowledge of elementary first aid
ETO.1. A-III/6-CCS 2.5.3 Practical knowledge: Detection of machinery malfunction, location of faults and action to prevent damage
ETO.2. A-III/6-CCS 3.3.1 Lifesaving: Ability to organize abandon ship drills and knowledge of the operation of survival craft and rescue boats, their launching appliances and arrangements, and their equipment, including radio lifesaving appliances, satellite EPIRBs, SARTs, immersion suits and thermal protective aids
ETO.3. A-III/6-3.4 Apply medical first aid on board ship
ETO.4. A-III/6-CCS 3.5.4 Knowledge and ability to apply decisionmaking techniques: .1 Situation and risk assessment, .2 Identify and consider generated options, .3 Selecting course of action, .4 Evaluation of outcome effectiveness
ETO.5. A-III/6-CCS 3.6.2 Knowledge of fire prevention and ability to fight and extinguish fires

TEACHING METHODOLOGY

Plenary lectures
Case studies
The study of the whole subject will be reasoned, based on scientifically proven facts, with which there is consensus in the medical community, being not allowed "alternative" or exothermic, not scientifically endorsed.
LEARNING OBJECTIVES OF THE SUBJECT

At the end of the course the student will be able to:
Determine the probable cause, nature and severity of the most common marine injuries
Select the most appropriate treatment in each case so that the risk of death and complications is minimized

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guided activities</td>
<td>6,0</td>
<td>8.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>19,0</td>
<td>25.33</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>8,0</td>
<td>10.67</td>
</tr>
<tr>
<td>Self study</td>
<td>42,0</td>
<td>56.00</td>
</tr>
</tbody>
</table>

Total learning time: 75 h

CONTENTS

1. INTRODUCTION TO MARITIME MEDICINE

Description:
Concept of maritime medicine and its method of study. The disease: etiology, pathogenesis, pathophysiology, clinical, pathological anatomy, diagnosis, prognosis, therapy and prophylaxis.

Full-or-part-time: 5h
Theory classes: 2h
Practical classes: 1h
Guided activities: 1h
Self study : 1h

2. WOUNDS, INJURIES AND OTHER ALTERATIONS BY MECHANICAL AGENTS

Description:

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study : 1h
3. THE COLD AND THE HEAT AS ETIOLOGICAL AGENTS

Description:

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study: 1h

4. ACCIDENTS BY CHEMICAL AGENTS

Description:

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study: 1h

5. MAIN COMMUNICABLE DISEASES OF MARITIME INTEREST

Description:
Quarantinable diseases. The International Health Regulations Naval medical and health documentation. Sexually transmitted diseases.

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study: 1h

6. VITAL EMERGENCIES ON BOARD

Description:

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study: 1h
### 7. CARDIOCIRCULATORY EMERGENCIES ON BOARD

**Description:**

**Full-or-part-time:** 4h  
Theory classes: 1h  
Practical classes: 1h  
Guided activities: 1h  
Self study: 1h

### 8. MAIN EMERGENCIES OF THE RESPIRATORY SYSTEM

**Description:**
Alterations of the upper respiratory tract. Crisisasmatic. Pneumonia Pneumothorax. Other frequent respiratory emergencies on board.

**Full-or-part-time:** 4h  
Theory classes: 1h  
Practical classes: 1h  
Guided activities: 1h  
Self study: 1h

### 9. OTHER EMERGENCIES ON BOARD

**Description:**

**Full-or-part-time:** 4h  
Theory classes: 1h  
Practical classes: 1h  
Guided activities: 1h  
Self study: 1h

### 10. CHRONIC DISEASES OF SPECIAL INCIDENCE IN SEA PEOPLE AND THEIR MANAGEMENT

**Description:**

**Full-or-part-time:** 4h  
Theory classes: 1h  
Practical classes: 1h  
Guided activities: 1h  
Self study: 1h
11. BIRTH AND DEATH ON BOARD

Description:
Childbirth: Assistance in the phases of dilation, expulsion and delivery. Newborn care. Death on board: Diagnosis, legal procedures and destination of the corpse.

Full-or-part-time: 4h
Theory classes: 1h
Practical classes: 1h
Guided activities: 1h
Self study: 1h

GRADING SYSTEM

1.- Examination of the contents taught in class: 70% of the grade.
2.- Individual work: 30% of the mark.

The re-evaluation test comprises the whole subject.

BIBLIOGRAPHY

Basic:

Complementary: