

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	OF BUSINESS STUDIES		
<b>ACADEMIC UNIT</b>	SHIPPING, TRADE AND TRANSPORT DEPARTMENT		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	EN0013	<b>SEMESTER</b>	8 <sup>th</sup>
<b>COURSE TITLE</b>	Ship Repair management- maintenance		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>
		3	5
<b>COURSE TYPE</b>	SUBJECT AREA COURSE		
<b>PREREQUISITE COURSES:</b>	N/A		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	GREEK		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	YES		
<b>COURSE WEBSITE (URL)</b>	<a href="https://eclass.aegean.gr/courses/TNEY258/">https://eclass.aegean.gr/courses/TNEY258/</a>		

### (2) LEARNING OUTCOMES

Learning outcomes
<p>The Ship Repair management- maintenance course analyzes techno-economic data on the organization and conduct of ship repairs. The process of planning maintenance and repair work is analyzed in relation to techno-economic factors related to the type of ship, the location of the yard, the preparation time of the shipping company's staff and others. An analysis and presentation of the costing process of the work as well as the policies involved is made. They analyze and deepen on issues relating to the credibility of ship's technological systems, maintenance, targeting policies and maintenance strategies and the models that support it.</p> <p>The learning outcomes of the course are summarized in:</p> <ul style="list-style-type: none"> <li>- Understanding the fundamental principles of repairs and maintenance of ships</li> <li>- Structure and terminology related to machines and systems</li> <li>- Financial and technical characteristics for ship repair and maintenance</li> <li>- Implementation of best practices on the ship and by the shipping company</li> <li>- Diagnosis of causes of malfunction and assessment of optimization of ship functionality</li> <li>- Depending on the cost and calculation of basic costs in function or repair based on the type of ship</li> <li>- Modern technology systems</li> </ul>

- Case studies

**General Competences**

- Search, analyze and synthesize data and information, using the necessary technologies
- Adapt to new situations
  - Decision making
- Respect for the environment through the development of processes
- Autonomous work
  - Teamwork
- Working in an international environment
- Working in an interdisciplinary environment
- Production of new research ideas.

**(3) SYLLABUS**

The content of the lesson develops the basic principles of ship and ship attendance at the theoretical and applied level. In this context, the course aims to develop students' knowledge and skills to:

1. Understand the basic principles in ship repair organization processes.
2. Enhance learners' perception of issues they are considering and describe the complexity of the techno-economic parameters that exist in the shipping industry.

Learning outcomes sought

1. To acquire basic knowledge of the specificities of ship maintenance.
2. To acquire basic knowledge in general of the management organization.
3. In-depth diagnostics of main engine system parameters related to maintenance management
4. Basic principles of inspections, types of inspections, planning
5. Damage and Damage as well as the Importance of Safety Analysis

The content of the course includes:

- Categories of ship repair and maintenance
- Terminology .
- Reliability of technology systems.
- Maintenance.
- Institutional framework by the State of Registry
- Ship Class Regulations
- Compiling a ship repair or maintenance specification
- Costing the repair specification
- Bid evaluation process
- Gad charts and implementation
- Qualitative assessment procedures
- Case studies



#### (4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face, physical presence in class and implementation of e-class platform	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, laboratory education, communication with students, based on synchronous and interactive technologies	
TEACHING METHODS	<i>Activity</i>	<i>Semester workload</i>
	Lectures	39 hours
	Case studies	20 hours
	View educational documentaries – educational visits	14 hours
	Teamwork Presentations	12 hours
	Course preparation	26 hours
	Meetings to resolve questions	10 hours
	Course exam final	3 hours
	Course total	<b>125 hours</b>
STUDENT PERFORMANCE EVALUATION	<p>Student evaluation procedures and final course grading are based on the weighted combination of:</p> <ul style="list-style-type: none"> <li>- written exam: (70%)</li> <li>- empirical project assignment and personal class participation: (30%).</li> </ul> <p>Language of student evaluation: Greek with specialized terminology in English.</p>	

#### (5) ATTACHED BIBLIOGRAPHY

<p>- Suggested bibliography:</p> <p>Notes of instructor</p> <ul style="list-style-type: none"> <li>- Coastal and Marine Industries Management, ALEXANDROS GOULELE MOS</li> <li>- Inspection, maintenance and repair of the metal structure of the ship, Petros Karidis</li> <li>- Auxiliary machinery for ships, Eugenides Foundation, 2015</li> </ul> <p>- Related academic journals:</p>
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