

Course Title	Marine Engines				
Course Code	MANS-215				
Course Type	Required				
Level	1 st Cycle				
Year / Semester	2 nd Year, Fall Semester				
Teacher's Name	Chief Engineer Robert Dunn				
ECTS	3	Theory	Laboratory	Simulation	Tutorial
		2	---	---	---
Course Purpose and Objectives	<p>The main objectives of the course are to:</p> <ul style="list-style-type: none"> • present the operational and constructional principles of the marine main engines and the auxiliary machinery • provide the terminology of marine mechanology • offer details on remote controls, automation and engine room operational observation • explain the basics on fuels and lubricants 				
Learning Outcomes	<p>After completion of the course students are expected to be able to:</p> <ul style="list-style-type: none"> • comprehend the basic working principles of a modern engine room • name all the major machinery parts, components and networks in the engine room • recognize the automated way a modern engine room is run • identify the major characteristics of the fuels and lubricants used in marine engines 				
Prerequisites	None	Required	None		
Course Content	<ul style="list-style-type: none"> • Operational description of the vessel's propulsion system • Main engine systems • Auxiliary machinery and installations • Engine room safety plans • Remote control systems, automations, engine room operation's observation systems • Distance, speed, consumption 				

	<ul style="list-style-type: none"> • Deck machinery • Pumps, pumping net • Steering system • Systems failures 														
Teaching Methodology	Lectures, in-class assignments, sound and video equipment, computer, projector, simulation software														
Bibliography	Required Textbooks/Reading:														
	<table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>McGeorge, H., D.</td> <td>General engineering knowledge</td> <td>Routledge</td> <td>2011</td> <td>9780750600064</td> </tr> </tbody> </table>	Authors	Title	Publisher	Year	ISBN	McGeorge, H., D.	General engineering knowledge	Routledge	2011	9780750600064				
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Assessment	Homework, in-class assignments, projects, exams, final exam.														
Language	English														