

Course Title	Naval Architecture - Design				
Course Code	MANS-133				
Course Type	Required				
Level	1 st Cycle				
Year / Semester	1 st Year, Spring Semester				
Teacher's Name	Mr. Konstantinidis Dimitris				
ECTS	4	Theory	Laboratory	Simulation	Tutorial
		2	1	---	---
Course Purpose and Objectives	<p>The main objectives of the course are to:</p> <ul style="list-style-type: none"> introduce all the major structural parts and elements of the vessel explain the most important watertight subdivision issues demonstrate the ship's blueprints present the terminology of the various types of rudders and screws present the basic drawing tools and materials display the typical ways that an object can be represented on paper <p>exhibit the basics on mechanical and architectural design</p>				
Learning Outcomes	<p>After completion of the course students are expected to be able to:</p> <ul style="list-style-type: none"> name all the major structural parts and elements of the vessel comprehend the basic details of any vessel's watertight subdivision, drawing information out of the ship's plans and manuals locate any structural point on the blueprints and vice versa name the major parts of the various types of rudders and screws handle all basic drawing tools and materials represent simple objects and components on paper exercising the basic principles of mechanical and architectural design 				
Prerequisites	None	Required	None		
Course Content	<ul style="list-style-type: none"> Vessel reinforcement systems Double bottoms, purpose and construction 				

	<ul style="list-style-type: none"> • Structural solution to the problem of pounding • Structural reinforcement to confront the head on stresses • Upper deck constructions • Stern construction • Upper deck construction • Section plans • Piping networks • Corrosion and similar problems • Underwater hull pollution prevention • General description of rudders • General description of screws • Generalities about design • Axonometric presentation • Drawing with orthographic projections • Vess Lectures, in-class assignments, sound and video equipment, computer, projector el's blueprints 																									
Teaching Methodology	Lectures, in-class assignments, sound and video equipment, computer, projector																									
Bibliography	<p>Required Textbooks/Reading:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Authors</th> <th style="text-align: left;">Title</th> <th style="text-align: left;">Publisher</th> <th style="text-align: left;">Year</th> <th style="text-align: left;">ISBN</th> </tr> </thead> <tbody> <tr> <td>Eyres, D., J.</td> <td>Ship construction</td> <td>Butterworth - Heinemann</td> <td>2001</td> <td>0 7506 4887 2</td> </tr> </tbody> </table> <p>Recommended Textbooks/Reading:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Authors</th> <th style="text-align: left;">Title</th> <th style="text-align: left;">Publisher</th> <th style="text-align: left;">Year</th> <th style="text-align: left;">ISBN</th> </tr> </thead> <tbody> <tr> <td>Dr D. A. Taylor Dr Alan ST Tang</td> <td>Merchant Ship Naval Architecture</td> <td>IMAREST</td> <td>2006</td> <td>1-902536-56-8</td> </tr> <tr> <td>Dr D. A. Taylor</td> <td>Merchant Ship Construction 4th</td> <td>IMAREST</td> <td>2000</td> <td>1-9022536-00-2</td> </tr> </tbody> </table>	Authors	Title	Publisher	Year	ISBN	Eyres, D., J.	Ship construction	Butterworth - Heinemann	2001	0 7506 4887 2	Authors	Title	Publisher	Year	ISBN	Dr D. A. Taylor Dr Alan ST Tang	Merchant Ship Naval Architecture	IMAREST	2006	1-902536-56-8	Dr D. A. Taylor	Merchant Ship Construction 4 th	IMAREST	2000	1-9022536-00-2
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Assessment	Homework, in-class assignments, projects, exams, final exam.																									
Language	English																									