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| Course Title | **Cargo Transport** | | | | | | |
| Course Code | MANS-322 | | | | | | |
| Course Type | Required | | | | | | |
| Level | 1st Cycle | | | | | | |
| Year / Semester | 3rd Year, Spring Semester | | | | | | |
| Teacher’s Name |  | | | | | | |
| ECTS | 7 | Theory | | Laboratory | Simulation | | Tutorial |
| 4 | | 2 | ---- | | ---- |
| Course Purpose and Objectives | The main objectives of the course are to:   * introduce the safe loading, securing, transporting and discharging of all the major types of cargo * examine the basic issues of RO-RO Pax cargo operation * offer detailed information on the handling of dangerous cargo * elaborate on the effect of cargo in the ship’s seaworthiness and stability * discuss about the effect of cargo in vessel’s and crew’s safety * describe the securing and the maintenance of communications procedures throughout cargo operations | | | | | | |
| Learning Outcomes | After completion of the course students are expected to be able to:   * safely load, secure, transport and discharge all the major types of cargo * control all the major problems arising during a RO-RO Pax cargo operation * deal with all types of dangerous cargo that might be transported with a vessel * comprehend in detail the effect of cargo in the ship’s seaworthiness and stability * realize the effect of the cargo to the vessel’s and crew’s safety * properly secure and maintain the communications throughout the cargo operations | | | | | | |
| Prerequisites | None | | Required | | | None | |
| Course Content | * Safe cargo transport * Dry cargoes and cargo declaration * Liquid cagoes & MSDS * Cargo spaces preparation, separation, inspection * Ventilation and control of transpiration * Organization of cargo stowing * Defining vessel sizes * Load lines and draft * Dangerous cargo * IMDG code and IMSB * Bulk cargo other than grain * RO –RO Pax vessels * Containerized cargo * Crude oil and product transport * Tanker ships * Transport of liquid cargoes * Refrigerated cargo transport * Timber transport * Coal, Bauxite and metal ore transport * Steel and steel product transport * Grain transport * Cargo in ballast tanks * Unitized cargo * Cargo securing. Calculations. Vehicle securing * Crossing seasonal zones. Cargo and draft calculations * Calculations related to the hold tanks cargo | | | | | | |
| Teaching Methodology | Lectures, in-class assignments, sound and video equipment, computer, projector, relevant software, cargo handling simulator | | | | | | |
| Bibliography | 1. **Required Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | Cpt Thomas, R.E., rewritten by Rankin, K.S. | The properties and stowage of cargoes | Glasgow, Brown, Son & Ferguson | 2008 | 978-0-85714-798-8 |  1. **Recommended Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | Taylor, L.G. | Cargowork | Glasgow, Brown, Son & Ferguson | 1992 | 978-0-85174-605-5 | | IMO | Code for safe practice for cargo stowage and securing | IMO | 2003 | 978-92-801-51459 | | | | | | | |
| Assessment | Homework, in-class assignments, projects, exams, final exam. | | | | | | |
| Language | English | | | | | | |