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| Course Title | **GMDSS** | | | | | | |
| Course Code | MANS-311 | | | | | | |
| Course Type | Required | | | | | | |
| Level | 1st Cycle | | | | | | |
| Year / Semester | 3rd Year, Fall Semester | | | | | | |
| Teacher’s Name |  | | | | | | |
| ECTS | 8 | Theory | | Laboratory | Simulation | | Tutorial |
| 3 | | --- | 3 | | --- |
| Course Purpose and Objectives | The main objectives of the course are to:   * Implement the importance of following the proper communications practices * Provide a theoretical and practical background for the effective use of GMDSS * Display in detail the emergency procedures * Discuss all the consequences of a false alarm * Present the actions that must be made in such a case * Introduce the basic maintenance principles | | | | | | |
| Learning Outcomes | After completion of the course students are expected to be able to:   * Follow the required procedures in all stages of GMDSS communications * Operate the system efficiently in all emergency condition * Execute successfully all the safety and distress procedures even under stress * Comprehend the consequences of a false alarm * Follow all the necessary steps to avoid a false alarm * Perform all the crucial actions in case of a false alarm * Monitor the working condition of the GMDSS installation carrying out the all the required checking and restoring minor problems | | | | | | |
| Prerequisites | MANS-113 | | Required | | | None | |
| Course Content | * Morse alphabet and numbers * Methods of signaling (Flag & signals) * General transmission instructions, Typical message parts * One and two letters signs, Combinations of letter and number * Transmission and reception of the distress signal using light * Means of local signal transmission * Mobile nautical service communication types * SOLAS convention and GMDSS * Radio-communication rules by the ITU * Description of typical GMDSS station * Antennas * GMDSS satellite communications * Safety – security and distress messages transmission, reception, relay * False alarms – precautions - consequences * Actions to be taken in case of false alarm * Conventional means - maintenance * Non GMDSS systems * GMDSS check lists and log book * Equipment maintenance * System failures | | | | | | |
| Teaching Methodology | GMDSS simulation and theory at BSM Maritime Training Centre | | | | | | |
| Bibliography | * + - 1. **Required Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | NP 285 | Global Maritime Distress and Safety System | UK Hydrographic Office | 2002 |  | | IMO | International Code of Signals | IMO | 2005 | 978-92-801-41986 |  * + - 1. **Recommended Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | IMO | GMDSS manual | IMO | 2013 | 978-92-801-15758 | | IMO | Performance standards for ship borne radio communications and navigational equipment | IMO | 2011 | 9789280115239 | | | | | | | |
| Assessment | Examination on GMDSS simulator and provision of Certificate by approved and certified training center – BSM Maritime Training Centre | | | | | | |
| Language | English | | | | | | |