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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
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| 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
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| 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
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| Teaching Methodology | GMDSS simulation and theory at BSM Maritime Training Centre |
| Bibliography | * + - 1. **Required Textbooks/Reading:**

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| --- | --- | --- | --- | --- |
| **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:**

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| **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 |

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| Assessment | Examination on GMDSS simulator and provision of Certificate by approved and certified training center – BSM Maritime Training Centre |
| Language | English  |