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| Course Title | **ECDIS** | | | | | | |
| Course Code | MANS-430 | | | | | | |
| Course Type | Required | | | | | | |
| Level | 1st Cycle | | | | | | |
| Year / Semester | 4th Year, Spring Semester | | | | | | |
| Teacher’s Name |  | | | | | | |
| ECTS | 6 | Theory | | Laboratory | Simulation | | Tutorial |
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| Course Purpose and Objectives | The main objectives of the course are to:   * present the operational principles of ECDIS * describe the use of navigational functions * display the evaluation of all relevant systems information * discuss the proper respond procedures in case of malfunction * define the reporting and identification procedures of possible data and interpretation errors * elaborate on issues of overconfidence in the system | | | | | | |
| Learning Outcomes | After completion of the course students are expected to be able to:   * comprehend the basic operational principles of ECDIS * fully recognize the use of all navigational functions * carefully assess all the relevant systems information * respond accordingly to any case of equipment malfunction * take into consideration all possible data and interpretation errors following the relevant procedures * consider the navigational information of all available sources and never rely solely to a single navigational aid | | | | | | |
| Prerequisites | MANS-114 | | Required | | | None | |
| Course Content | * General description of ECDIS system * Watch keeping with ECDIS * Planning and execution of the voyage * Data input (Position, speed, heading, course, targets, radar, AIS etc.) from other electronic devices. * Targets, charts and system * Charts updating * Effect of errors * Dangers from malfunctions * ECDIS standards and evaluation * System confidence | | | | | | |
| Teaching Methodology | ECDIS simulator and theory at BSM Maritime Training Centre | | | | | | |
| Bibliography | * + - 1. **Required Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | Weintrit, A. | The Electronic Chart Display and Information System | CRC Press | 2009 | 978-0-415-48246-2 |  * + - 1. **Recommended Textbooks/Reading:**  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Authors** | **Title** | **Publisher** | **Year** | **ISBN** | | Becker – Heins, R. | ECDIS basics | Geomares | 2014 | 978-90-806205-9-9 | | Hecht, H., Berking, B., Jonas, M., Alexander, L. | The Electronic Chart | Geomares | 2014 |  | | | | | | | |
| Assessment | Examination on ECDIS simulator and provision of Certificate by approved and certified training center – BSM Maritime Training Centre | | | | | | |
| Language | English | | | | | | |