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

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

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| --- | --- | --- | --- | --- |
| **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 |  |

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