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| Course Title | **Simulation BTM – BRM – BMS**  |
| Course Code | MANS-433 |
| Course Type | Required |
| Level | 1st Cycle |
| Year / Semester | 4th Year, Spring Semester |
| Teacher’s Name |  |
| ECTS | 6 | Theory | Laboratory | Simulation | Tutorial |
| 1 | --- | 2 | ---- |
| Course Purpose and Objectives | The main objectives of the course are to:* Simulate real life conditions in order to familiarize the students with adverse bridge situations
* Introduce the basic Bridge Team Management (BTM) and Bridge Management System (BMS) principles
* Demonstrate the basic Bridge Recourse Management (BRM) principles
* Apply all the navigational issues presented so far in real life scenarios
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| Learning Outcomes | After completion of the course students are expected to be able to: * Implement the basic BTM and BMS principles
* Apply the basic BRM principles
* Respond to unpredicted bridge situations according to the BTM – BRM – BMS principles
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| Prerequisites | None | Required | None |
| Course Content | * Differences and similarities among the bridge team
* Cultural awareness
* Briefing – debriefing procedures
* Interaction between pilot and the bridge team, communication techniques
* Exchange of information between all persons involved
* Challenge of the person in conn. Response of the team members
* Confidence and authority
* Importance of workload and stress
* Allocation of duties
* Basic watch keeping principles as referred to in STCW 2010 reg VIII/2
* Bridge electronic equipment
* Electronic equipment information evaluation
* Radar and position fixing
* ECDIS and watch keeping
* Charts and publications information evaluation
* Wind and current inputs
* Engine controls on bridge
* Complicated simulation scenarios in which all major factors are included (COLREGS, wind, current, narrows, VTSS, communications, engine failures, mechanical failures, etc.)
* Assessment of the scenario results
* Gathering and development of information necessary for the execution of the voyage
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| Teaching Methodology | Bridge simulator and theory at BSM Maritime Training Centre |
| Bibliography | **Required Textbooks/Reading:**

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| --- | --- | --- | --- | --- |
| **Authors** | **Title** | **Publisher** | **Year** | **ISBN** |
| Swift, Capt A.J  | Bridge Team Management – A practical guide | The Nautical Institute | 1993 | 1-870077-14-8 |

**Recommended Textbooks/Reading:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Title** | **Publisher** | **Year** | **ISBN** |
| The Nautical Institute | Bridge Team Management | The Nautical Institute | 2004 | 978-1-870077-66 8 |
| Adams, M., R | Shipboard bridge resource management | Nor’easter Press | 2006 | 978-0-9779200-0-6 |

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