

COURSE LIST
2009 – 2013 SERIES

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| Course description | PROFICIENCY IN SURVIVAL CRAFT AND RESCUE BOATS OTHER THAN FAST RESCUE BOATS |
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| Course code | Year | II | Number of credits |
| | Semester | 4 | |

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| Faculty | Navigation and Naval Transport Naval Electromechanics | The number of hours per semester / activities | | | | |
| Domain | Naval Engineering and Navigation | Total | C | S | L | P |
| Specialization | Navigation and Maritime and River Transport Electromechanics Electrotechnics | 28 | 14 | - | 14 | - |

Approved,
UMC RECTOR
Prof. Cornel PANAIT, Ph.D.

Approved,
Romanian Naval Authority

PROMOTION AND IMO COURSES DEPARTMENT DIRECTOR,
Sen.lect.Dr.eng. Liviu Constantin STAN

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| Course type DF -fundamental, DD -engineer, domain specific, DS -specialized, DC -complementary | DS |
| Course optionality: DI -required, DO -optional, DF - facultative | DF |

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| Previous courses | Obligations (conditioned) |
| | Recommended |

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| Objectives | <p>This course is both practical and theoretical, after the theoretical lessons conducted by following the practical applications of craft and their accessories. Instructors will provide the necessary theoretical and practical applications to perform and will oversee the entire progress of the exercise.</p> <p>Before making practical exercises, students should be familiar with specific equipment and facilities and means of rescue boats, with radio equipment and pyrotechnics used in case of emergency.</p> <p>The course aims are to provide the training for candidates to launch and take charge of a survival craft or rescue boat in emergency situations, in accordance with Section A-VI/2 of the STCW Code.</p> <p>A trainee will be competent to operate a life-saving appliances and take charge of</p> |
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| | <p>a survival craft or rescue boat during or after launch. Students will gain knowledge on :</p> <ul style="list-style-type: none"> -Preparation and launching of survival craft -Use of equipment -Operation rescue boat engine -Crew management and craft after abandoning ship -Use of signaling equipment and GMDSS equipment -First aid medical survivors -Actions taken for survival in rescue boat. |
| <p>Content (descriptors)</p> | <ol style="list-style-type: none"> 1. Introduction and safety <ol style="list-style-type: none"> 1.1. Introduction 1.2. Safety guidance 2. General <ol style="list-style-type: none"> 2.1. Emergency situations 2.2. Training, drills and operational readiness 2.3. Actions to be taken when called to survival craft stations 3. Abandon ship <ol style="list-style-type: none"> 3.1. Actions to be taken when required to abandon ship 3.2. Actions to be taken when in the water 4. Survival craft and rescue boats <ol style="list-style-type: none"> 4.1. Lifeboats 4.2. Liferrafts 4.3. Rescue boats 5. Launching arrangements <ol style="list-style-type: none"> 5.1. Boat davits 5.2. Liferaft davits 5.3. Rescue boat davits 5.4. Free-fall 5.5. Float-free arrangements 5.6. Marine evacuation system 6. Evacuation and recovery of survival craft and rescue boats <ol style="list-style-type: none"> 6.1. Launching 6.2. Clearing the ship's side 6.3. Marshalling liferafts and rescuing survivors from the sea 6.4. Recovery of survival craft and rescue boats 6.5. Launching survival craft and rescue boats in rough sea 6.6. Recovery of rescue boats in rough sea 7. Actions to take when clear of the ship 8. Lifeboat engine and accessories <ol style="list-style-type: none"> 8.1. Starting the engine 8.2. Cooling systems 8.3. Battery charging 8.4. Fire extinguisher 8.5. Water spray systems 8.6. Self-contained air support systems 9. Rescue boat outboard engine 10. Handling survival craft and rescue boat in rough weather <ol style="list-style-type: none"> 10.1. Boats 10.2. Liferrafts 10.3. Beaching 11. Actions to take when aboard a survival craft <ol style="list-style-type: none"> 11.1. Initial actions 11.2. Routines for survival 11.3. Use of equipment 11.4. Appointment of food and water |

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| | <p>11.5. Action to take to maximize detectability and location of survival craft</p> <p>12. Methods of helicopter rescue</p> <p>12.1. Communicating with the helicopter</p> <p>12.2. Evacuation from ship and survival craft</p> <p>12.3. Helicopter pick-up</p> <p>13. Hypothermia</p> <p>14. Radio equipment</p> <p>14.1. Two-way VHF radiotelephone apparatus</p> <p>14.2. Emergency position-indicating radio beacon (EPIRBs)</p> <p>14.3. Search and rescue transponder beacons (SARTs)</p> <p>14.4. Distress signals, signaling equipment and pyrotechnics</p> <p>15. First Aid</p> <p>15.1. Resuscitation techniques</p> <p>15.2. Use of first-aid kit</p> <p>16. Drills in launching and recovering boats</p> <p>17. Drills in launching liferafts</p> <p>17.1. Davit-launched liferafts</p> <p>17.2. Throw-overboard liferafts</p> <p>17.3. Boarding a liferaft from the water</p> <p>17.4. Righting an inverted liferaft</p> <p>18. Drills in launching and recovering rescue boats</p> <p>19. Practical exercises and evaluation</p> |
| Competences | <ul style="list-style-type: none"> - Take charge of a survival craft or rescue boat during and after launch - Knowing how to use the equipment - Operate a survival craft engine - Manage survivors and survival craft after abandoning ship - Use locating devices, including communications and signaling apparatus and pyrotechnics - Apply first aid to survivors |
| Test and evaluation | Practical exercises and evaluation |

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| Final grade (percentage) | - answers to exam / colloquium / practical work | 80% | | | |
| | - certified applied activities / lab / practical work / project, etc.. | 20% | | | |
| Bibliography | <p>SOLAS 74 Convention</p> <p>MERSAR 1980</p> <p>IMO-SAR 1988</p> | | | | |
| List of needed materials | Life jackets, rescue boat, inflatable raft | | | | |
| Balance of spent hours | Chapter nr. | Course Hours | Seminar Hours | Laboratory Hours | Project Hours |
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| | Total hours | | | | |
| | Evaluation | | | | |
| | Total | 28 hours | | | |

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| Lecturer Position, title, first name, name | Signature |
| Sen.lect.Dr.eng. Grosan Voicu Nicolae | |
| Head of chair Position, title, first name, name | Signature |
| Prof. Zidaru Nicolae, Ph. D | |
| Head of IMO Department Position, title, first name, name | Signature |
| Sen.lect.Dr.eng. Liviu Stan | |

Legend: C-course, S-seminar, L- Laboratory or simulator activities, P- project or practical work