

## COURSE OF STUDY Science and Management of Maritime Activities

### ACADEMIC YEAR 2023-2024

### ACADEMIC SUBJECT Navigation and Meteorology

General information	
Year of the course	Third year
Academic calendar (starting and ending date)	October 2023 – January 2024
Credits (CFU/ETCS):	12
SSD	ICAR/06
Language	Italian language
Mode of attendance	Not mandatory (strongly recommended)

Professor/ Lecturer	
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Department and address	Scuola Sottufficiali della Marina Militare - Taranto
Virtual room	//
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Tuesday (10.00 – 11.00) (by agreement with the teacher)

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
300	96		204
CFU/ETCS			
12			//

<b>Learning Objectives</b>	The three-year Degree Course in Sciences and Management of Maritime Activities pursues the objective of transmitting both general, specific and professionalizing scientific methods and contents of marine and maritime activities through common training activities (in the scientific, legal and economic fields)
<b>Course prerequisites</b>	No prior knowledge required

<b>Teaching strategie</b>	The face-to-face course includes an adequate number of increasingly difficult exercises to allow each student to acquire and consolidate the essential skills in the use of nautical instruments.
<b>Expected learning outcomes in terms of</b>	
<b>Knowledge and understanding on:</b>	Acquisition of knowledge of the basic principles of navigation and meteorology. Development of the ability to understand the main rules of navigation and the fundamental phenomena of meteorology.
<b>Applying knowledge and understanding on:</b>	Acquisition of the necessary methodology to be able to plan navigation according to the safety criterion and predict the general trend of weather and sea conditions.

<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• Making informed judgments and choices Acquisition of critical thought in order to increase the autonomy of judgment.</li> <li>• Communicating knowledge and understanding Acquisition and development of the ability of critical and autonomous study of the elements necessary for navigation planning.</li> <li>• Capacities to continue learning Acquisition of the technical language and symbology necessary to argue and describe in a coherent way the fundamental aspects of navigation and meteorology.</li> </ul>
<b>Syllabus</b>	
<b>Content knowledge</b>	<p>The course aims to make individual visitors aware and understand the basic elements of maritime navigation (estimated and coastal) and meteorology. At the end of the course the student must have acquired the following knowledge:</p> <ul style="list-style-type: none"> <li>- elements of cartography;</li> <li>- concepts of coastal and offshore estimated navigation;</li> <li>- concepts of meteorology;</li> </ul> <p>and the following capabilities:</p> <ul style="list-style-type: none"> <li>- use of the main nautical instruments for navigation control;</li> <li>- use of nautical documentation and cartography;</li> <li>- correspondence for navigation control;</li> <li>- main graphic representations of meteorological phenomena analysis.</li> </ul>
<b>Texts and readings</b>	<p>Manuale dell'Ufficiale di rotta edito dall'Istituto Idrografico della Marina (I.I. 3100) ed. 2006. Norme per prevenire gli abbordi in mare edito dall'Istituto Idrografico della Marina (I.I.107). Simboli Abbreviazioni Termini in uso nelle carte nautiche (I.I. 1111)</p>
<b>Notes, additional materials</b>	//
<b>Repository</b>	//

<b>Assessment</b>	
<b>Assessment methods</b>	The verification of learning will be carried out through intermediate assessments. The final test consists of a nautical chart and/or oral test and the evaluation is expressed with a mark out of thirty, with possible honors.
<b>Assessment criteria</b>	<ul style="list-style-type: none"> <li>• Knowledge and understanding The evaluation criteria used aim to verify the actual acquisition of the methodology necessary for the knowledge and understanding of the fundamentals of navigation and meteorology in accordance with the curriculum.</li> <li>• Applying knowledge and understanding The evaluation criteria used aim to verify the actual acquisition of the methodology necessary for the application of knowledge and understanding of all those aspects related to the conduct of a navigation and the ability to predict the trend of weather-marine conditions.</li> <li>• Autonomy of judgment The evaluation criteria used aim to verify the actual acquisition and development of the ability to critically study the topics of the curriculum.</li> <li>• Communication skills The evaluation criteria used aim to verify the actual acquisition of the ability to argue about the topics of the curriculum during in moments of sharing, comparison and discussion.</li> <li>• Capacities to continue learning</li> </ul>

	The evaluation criteria used aim to verify the actual acquisition of the methodology necessary to independently learn and study the main principles of the navigation and meteorology.
Final exam and grading criteria	The criteria for the evaluation of nautical chart and/or oral test take into consideration the correctness of the contents, the argumentative clarity and the skills of critical analysis and re-elaboration.
<b>Further information</b>	
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