



## **COURSE OF STUDY** Scienze e Gestione delle Attività Marittime *(First Level)*

## **ACADEMIC YEAR** 2023/2024

**ACADEMIC SUBJECT** 

## **Telecommunication**

General information	
Year of the course	2023/2024
Academic calendar (starting and ending date)	I Semester
Credits (CFU/ETCS):	6
SSD	ING-INF/03
Language	Italian
Mode of attendance	In class room/e-learning: Lecture- workshops

Professor/ Lecturer		
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Department and address		
Virtual room		
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Appointment with	n previous email/phone

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
150	48		102
CFU/ETCS			
6			

Learning Objectives	Making known at learners, the overview of the phenomena related to radiocommunications and the systems that in general allow the realization of Telecommunications. To acquire the necessary fundamentals for an easy use of the various communication systems that learners will find at future employment destinations. Also to acquire, in particular, the skills for the use of the actual standard of Maritime Radiocommunication systems (GMDSS).
Course prerequisites	None

Teaching strategie	The course develops through frontal lessons related to the
	relevant aspects of the discipline, essential for achieving the





	specific and global training objectives of the course. Frontal teaching will be supported by seminars and telecommunications tutorials and will follow, where possible, an interaction with learners, through discussion groups on the e-learning platform or in the classroom During the lessons will be used various tools for the improvement of teaching such as, for example, <i>Powerpoint</i> presentations projected in the classroom, schemes, bibliographic references and anything else deemed useful for the improvement of teaching effectiveness.
Expected learning outcomes in terms of	
Knowledge and understanding	Acquisition of the methodology necessary for the knowledge and
On:	understanding of the telecommunications topics indicated in the program;
Applying knowledge and	The acquisition of the methodology necessary for the application
understanding on:	of the knowledge and understanding of the telecommunications
	topics indicated in the program during the various operational
	activities that the learners will have to carry out, also through
	the analysis of the typical problems of Radiocommunication on
	board a Naval Unit.
Soft skills	<ul> <li>Making informed judgments and choices</li> <li>The acquisition and development of the ability to study critically the operational topics indicated in the teaching program, including through the careful study of the most significant regulations and operating procedures relating to the individual subjects under study, including through teaching activities of a seminar type.</li> <li><i>Communicating knowledge and understanding</i></li> <li>The acquisition of the ability to argue the topics of the program, so as to know how to present them with mastery and in a critical way in moments of sharing, discussion and discussion in the classroom, either individually or in groups.</li> <li><i>Capacities to continue learning</i></li> <li>The acquisition of the methodology necessary for learning and the critical study of the most significant literature, existing on the object of the methodology is a study of the most significant literature.</li> </ul>
Syllabus	the subjects under study, and of the most innovative regulation.
Content knowledge	The course refers to the teaching of Telecommunications for the learning of the aspects of the discipline essential for the achievement of the overall educational objectives of the course





stations.		Maritime Radiocommunication systems (GMDSS). Notes on the principles of Radio-propagation of radio waves in the atmosphere (Ionosphere, Stratosphere and Troposphere); Example of a typical terrestrial, satellite, radio link; Overview of Modulations used in Telecommunications; Overview of Transmission Lines and Antennas; Satellite communications; Overview of the content of SOLAS Standards for GMDSS - clobal Maritime Distress and Safety Systems; The GMDSS system - Global Maritime Distress and Safety ystems, and its functions (for the Safety of Life at Sea); GMDSS subsystems: DSC, Cospas Sarsat, Inmarsat; AIS, VTS, ART, NAVTEX; Systems for the dissemination of notices for navigation safety MSI, NAVTEX); Distress, Urgency and Safety procedures and radio frequencies; Radiocommunication order of precedence; Notes on the procedures of Search and Rescue at Sea with the elp of helicopters and SAR Airplanes and notes on the organization of the SAR - National and International Search and tescue; Radio buoys and the COSPAS_SARSAT system; Hints on GADSS and Iridium System INMARSAT within the GMDSS; Typical Radio procedures in an emergency context; • nspection visits for Radio Safety purposes (Radio Safety ertificate); IMC STCW procedures for issuing certificates for GMDSS
		tations.
	Texts and readings	
	Notes, additional materials	
Repository The platform supply from the Study Office	Repository T	he platform supply from the Study Office

Assessment	
Assessment methods	Written and Oral
Assessment criteria	The criteria for the evaluation of the oral test take into account the correctness of the contents, the clarity of argument and the
	ability of critical analysis and re-elaboration
Final exam and grading criteria	The final exam related to teaching takes place in written and / or oral form; the relative evaluation is expressed with a score in





	thirtieths, with possible praise
Further information	Further verification of the profit (interviews) are scheduled
	during the course. They are related to the topics covered in class
	and are organized in the form of questionnaires, characterized
	by open questions and / or multiple answers. They can be taken
	into account in the final evaluation.