

COURSE OF STUDY *Science and Management of Maritime Activities - SGAM*
ACADEMIC YEAR 2024-2025

ACADEMIC SUBJECT *Commodity Science*

General information	
Year of the course	2nd year
Academic calendar (starting and ending date)	I Semester
Credits (CFU/ETCS):	9
SSD	Scienze Merceologiche SECS-P/13
Language	Italian
Mode of attendance	Voluntary

Professor/ Lecturer	
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Department and address	Dipartimento Ionico- Sede di Economia – Via Lago Maggiore angolo via Ancona, Taranto
Virtual room	MS Teams codice: tzxseow
Office Hours (and modalities: e.g., by appointment, on line, etc.)	Wed & Fri 13:30, Ms Teams/face-to-face

Work schedule			
Hours			
Total	Lectures	Hands-on (laboratory, workshops, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
225	72		153
CFU/ETCS			
9			

Learning Objectives
<p><i>The subject is part of the logistics curriculum of the degree course whose specific training activities will allow future graduates to have a greater awareness of the technical/environmental aspects of the use and production of some of the main categories of goods that are often subject to maritime transport. Furthermore, thanks to the skills, knowledge and skills acquired, graduates will be able to work professionally on land in port and terminal companies, as well as in intermodal and multimodal transport with managerial and managerial skills, especially accounting and taxation. They will be able to offer their expertise in the entire transport and logistics chain, in particular in the ancillary companies of the shipowning activity such as shipping and forwarding agencies, brokerage agencies, maritime supervisors and port service providers, as well as in the management of problems related to safety and security, in the coordination of the activities of maritime personnel and in the field of tourist ports and related service companies, including shipbuilding. As for the public sector, the skills acquired can be used in the roles of the Port</i></p>

	<i>Authority and in those relating to the public bodies that manage port and maritime activities.</i>
Course prerequisites	<i>None</i>
Teaching strategie	<p><i>The course is developed through lectures relating to the aspects of the discipline that are relevant and indispensable for the achievement of the specific educational objectives of the teaching and overall of the course of study.</i></p> <p><i>Frontal teaching is supported by seminars and exercises and is followed, where possible, by an interaction with learners through discussion groups on the e-learning platform or in the classroom.</i></p> <p><i>During the lessons various tools are used for the improvement of teaching such as, for example, MS-Powerpoint presentations projected in the classroom, diagrams, bibliographic indications and anything else deemed useful for improving the effectiveness of teaching</i></p>
Expected learning outcomes in terms of	
Knowledge and understanding on:	<ul style="list-style-type: none"> ○ The acquisition of the methodology necessary for the knowledge and understanding of commodity science - indicated in the program - suitable for founding and supporting a truly sustainable development model, attentive to the needs of personal protection and the environment, also from an intergenerational perspective
Applying knowledge and understanding on:	<ul style="list-style-type: none"> ○ The acquisition of the methodology necessary for the application of knowledge and understanding of the principles commodity science with a focus on recent EU developments
Soft skills	<ul style="list-style-type: none"> • <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> ○ The acquisition and development of the capacity of critical study of the issues commodity science, indicated in the program, also through the critical study of the literature and the most significant legislation on the individual subjects being studied also through seminar type didactic activities • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ The acquisition of argumentative skills concerning commodity science, in particular aspects regarding the E, in order to communicate them during debates and exchange of opinions, also in the classroom, both individually and in groups • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ The acquisition of the necessary methodology for learning and mastering the discipline, the critical study of the principles of commodity science and of the most significant existing literature on the subjects under study
Syllabus	
Content knowledge	<p><i>The lessons will cover the primary commodity systems and those strategic for the local economic system:</i></p> <ul style="list-style-type: none"> - <i>The scenario of the interactive events between the biosphere (nature) and the technosphere (man-made).</i> - <i>The problem of energy sources: nature and characteristics of energy; unit of measure; fossil fuels: coal, oil and its derivatives, gaseous fuels, electricity, nuclear energy and renewable energy sources.</i> - <i>Energy use and needs; Energy and environment; Environmental analysis and accounting.</i> - <i>Goods and metals: the steel industry - iron and steel;</i> - <i>Goods produced by the chemical industry: basic inorganic products and fertilizers, the petrochemical industry, renewable resources.</i>

	- <i>The food problem. Cereals and their derivatives.</i> - <i>The water problem.</i> - <i>The production of wine and vegetable oils</i>
Texts and readings	<i>Ciraolo L., M. Giaccio, A. Morgante e V. Riganti, Merceologia, Bologna, Monduzzi editore, 1998.</i>
Notes, additional materials	<i>MS Powepoint slides for each topic</i>
Repository	

Assessment	
Assessment methods	
Assessment criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ The evaluation criteria used aim to verify the effective acquisition, by the student, of the methodology necessary for the knowledge and understanding of commodity science aspects • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ The evaluation criteria used aim to verify the effective acquisition by the student of the methodology necessary for the application of the knowledge and understanding of the product concepts in the program, in the current Italian, Apulian and international context, also through the study of the most significant literature on the individual themes being studied in depth through the analysis of the relevant literature and through exercises. • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ The evaluation criteria used aim to verify the effective acquisition and development, by the student, of the ability to perform a critical study of the issues of commodity science, also through the critical study of the literature and the most significant legislation on the individual subjects being studied also through seminar type didactic activities. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Evaluation criteria used aim to verify the effective acquisition, by the student, of the ability to argue and acquire argumentative skills concerning aspects of commodity science, in order to communicate them during debates and exchange of opinions, also in the classroom, both individually and in groups • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ The evaluation criteria used aim to verify the effective acquisition, by the student, of the methodology necessary for learning, mastering the discipline and critical study of the main concepts of commodity science and of the most significant existing literature on the subjects under study
Final exam and grading criteria	<i>The final grade is awarded out of a total of thirty points. The exam is passed when the grade is greater than or equal to 18/30.</i>
Further information	