



General information	
Academic subject	Commodity Science
Degree course	<i>Science and Management of Maritime Activities - SGAM</i>
Academic Year	2021-22
European Credit Transfer and Accumulation System (ECTS)	9
Language	<i>Italian</i>
Academic calendar (starting and ending date)	<i>October to January (1 Semester)</i>
Attendance	<i>Voluntary</i>

Professor/ Lecturer	
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Department and address	<i>Dipartimento Jonico- Sede di Economia – Via Lago Maggiore angolo via Ancona, Taranto</i>
Virtual headquarters	<i>Ms Teams, code zdge2da</i>
Tutoring (time and day)	Wednesdays and Fridays, 13:30-14:30

Syllabus	
Learning Objectives	<p><i>The subject is part of the logistic curriculum of the degree course whose specific training activities will allow future graduates, thanks to the skills, knowledge and skills acquired, to operate professionally on land in port and terminal companies, as well as intermodal and multimodal transport with managerial and management skills, especially accounting and tax. They will be able to offer their expertise in the entire transport and logistics chain, in particular in ancillary companies such as shipping and shipping agencies, brokerage, maritime authorities and providers of port services, 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 Authority and in those relating to public bodies that manage port and maritime activities.</i></p>

Course prerequisites	None
Contents	<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 events of the biosphere and the technosphere.</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>
Books and bibliography	<i>Ciraolo L., M. Giaccio, A. Morgante e V. Riganti, Merceologia, Bologna, Monduzzi editore, 1998.</i>
Additional materials	None

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
225	72		153
ECTS			
9			
Teaching strategy			
<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. 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			

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

Assessment and feedback	<i>Evaluation carried out by verifying the preparation through written and oral tests and a final exam</i>
Methods of assessment	
Evaluation 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> • <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
Criteria for assessment and attribution of the final mark	<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>
Additional information	