

<b>General Information</b>	
Academic subject	Commodity Science
Degree course	Business Administration
Curriculum	none
ECTS credits	8
Compulsory attendance	No
Language	Italian

<b>Subject teacher</b>	Name Surname	E-Mail	SSD
	Giovanni Lagioia	giovanni.lagioia@uniba.it	SECS-P/13

<b>ECTS credits details</b>		Scientific Area	Credits
Basic teaching activities		SECS-P/13	8

<b>Class schedule</b>	
Period	Spring semester
Year	III
Type of class	Lecture - workshops

<b>Time management</b>	
Hours	56
Hours of lectures	46
Tutorials and lab	10

<b>Academic calendar</b>	
Class begins	February 2018
Class ends	June 2018

<b>Syllabus</b>	
Prerequisites/requirements	Students need the basic knowledge of business studies.
Expected learning outcomes	<p><i>Knowledge and understanding</i></p> <p>Student has to know main features of commodities (quality indicators), their production processes, uses and markets. He has to understand the following topics:</p> <ul style="list-style-type: none"> <li>- scarcity of natural resources,</li> <li>- limitedness of natural capital,</li> <li>- environmental burdens of life cycle of commodities.</li> </ul> <p><i>Applying knowledge and understanding</i></p> <p>The knowledge concerning commodity's topics prepare for professional skills capable of problem solving as regard:</p> <ul style="list-style-type: none"> <li>- limitedness of natural resources and, broadly speaking, natural capital;</li> <li>- relationship among quality indicators, use of commodities and their markets;</li> <li>- sustainable development.</li> </ul> <p><i>Making informed judgements and choices</i></p> <p>Students will be capable of gathering and performing data necessary to organize independent assessments on issues concerning characterization, manufacturing, using and related environmental implications of commodities produced at national and international level.</p>

	<p><i>Communicating knowledge and understanding</i> Students has to make a relationship among quality indicators, use-value of commodities and environmental effects of commodities' life cycle as tools to establish the transition through circular and sustainable economy.</p> <p><i>Capacities to continue learning</i> The participation at lectures and practical workshops and home study will allow students to know and use independently:</p> <ul style="list-style-type: none"> <li>- quality indicators of commodities;</li> <li>- the concept of use-value of commodities (their uses and markets);</li> <li>- environmental effects linked to life cycle of commodities;</li> <li>- tools of the environmental accounting (sustainable and circular economy).</li> </ul>
<p>Contents</p>	<p>The course aims to provide students' knowledge and skills relevant to the evaluation of commodities by analysing their production cycle and their material properties. Particular the course will focus on the understanding of the limits of natural resources and environmental effects associated with the consumption and production of commodities. The final goal is to highlight how producers and consumers have to choose raw materials, technologies, commodities, or manage products and waste with the support of technical evaluations and monetary policies.</p> <p>Production chain, Natural Capital and Sustainable challenges of economy.</p> <p>Energy generation pattern. Energy no-renewable resources. Electricity. Nuclear power. Renewable Energy carriers. Energy and the environment. Sustainable energy.</p> <p>Metals (Iron and Steel).</p> <p>Chemical Industry: fertilizers, petrochemical production chains.</p> <p>Plastics and recycling issues.</p> <p>Food scarcity and description of food production chains.</p> <p>No-food uses of biomass (bioenergy, chemicals) and the construction of bio-economy.</p> <p>Features of water, Water resources and desalinization.</p> <p>Environmental Management Systems and the sustainable indicators.</p>
<p>Course program</p>	
<p>Bibliography</p>	<p>1) Nebbia G., <i>Lezioni di merceologia</i>, Bari, Laterza, 1995. 2) Lagioia G., <i>Lecture Notes</i>. <i>The course and its supporting materials are posted in e-learning platform (<a href="http://www.schoolology.com">www.schoolology.com</a>). Students have to ask for the access-code to the professor.</i></p> <p>3) Leoci B., <i>Cicli produttivi e merci</i>, Lecce, Adriatica Editrice Salentina, 1996. 4) Nebbia G., <i>Il sogno della merce Guida alle scelte dei consumatori</i>, Ediz. Zephiro, 1998, Capitolo I.</p>

	<p>5) Calabrò G., Merceologia risorse naturali, merci ed ambiente, Messina, Scuderi s.a.s., 1999.</p> <p>6) Nebbia G., Contabilità monetaria e contabilità ambientale, Lectio Doctoralis in Economia e Commercio, Bari 30 gennaio 1999.</p> <p>7) Ciraolo L., M. Giaccio, A. Morgante e V. Riganti, Merceologia, Bologna, Monduzzi editore, 1998.</p>
Notes	Supporting materials no. 1 and 2 are compulsory. Supporting materials no. 3-7 are optional.
Teaching methods	Lecture, discussion of case studies and practical exercises.
Assessment methods	Oral presentation with practical applications during the discussion.
Evaluation criteria	<p>Evaluation criteria are the followings:</p> <ul style="list-style-type: none"> <li>- Capacity of description of quality indicators (features of commodities);</li> <li>- Illustration of use value of commodities (market and use of commodities);</li> <li>- Description of main environmental burdens of the commodities during their life cycle;</li> <li>- Explanation and practical application of sustainable indicators as tools through circular economy.</li> </ul>
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