

Professor name	Giovanni LAGIOIA
Bachelor in	Business Administration
Academic year	2015-2016
Semester	II
ECTS /CFU	8
Scientific Area Code	SECS-P/13

Course unit title Commodity Science (a.a. 2015/2016)
(Prof. LAGIOIA Giovanni)

University of Bari Aldo Moro
Bachelor in Business Administration

Admission criteria

None

Aims of the course

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.

Course content

Part I (Introduction in Commodity Science)

Definition, evolution, object of Commodity Science.

Biosphere e techno-sphere. Unity of measure. Features of the Earth, air and aquatic ecosystems. Natural cycles.

Part II (Energy generation)

Energy generation pattern. Fossil fuels. Coal. Oil and its derivatives. Gaseous fuels. Electricity. Nuclear power. Renewable Energy carriers. Energy and the environment. Consumption patter of energy.

Part III (Metallurgic and chemical industries)

Metals (Iron and Steel).

Chemical Industry: Sulfuric acid, fertilizers, petrochemical production chains.

Part IV (Food, Water and Biomass)

Food scarcity and description of food production chains. No-food uses of biomass (bioenergy, chemicals). Features of water, Water resources and desalinization.

§ Part V (Environmental Management)

Environmental Management Systems and the sustainable indicators.

Compulsory reading – study material

Nebbia G., *Lezioni di merceologia*, Bari, Laterza, 1995.

[§] Lagioia G., *Appunti dalle lezioni*.

Recommended reading - study material

Leoci B., *Cicli produttivi e merci*, Lecce, Adriatica Editrice Salentina, 1996.

Nebbia G., *Il sogno della merce Guida alle scelte dei consumatori*, Ediz. Zephireo, 1998, Capitolo I.

Calabrò G., *Merceologia risorse naturali, merci ed ambiente*, Messina, Scuderi s.a.s., 1999.

Nebbia G., *Contabilità monetaria e contabilità ambientale*, *Lectio Doctoralis in Economia e Commercio*, Bari 30 gennaio 1999.

Ciraolo L., M. Giaccio, A. Morgante e V. Riganti, *Merceologia*, Bologna, Monduzzi editore, 1998.

Teaching methods

- Direct contact
Lectures: Yes
Tutorials: Yes
- Personal work
Case studies – in group: Yes

Assessment methods

- Assignment: No
- Written without oral presentation: No
- Oral presentation: Yes

This course is in e-learning Web Site area: Yes (www.lore.com)