

Nome docente	Teodoro Gallucci
Corso di laurea	Business Administration
Anno accademico	2015-2016
Periodo di svolgimento	Second Semester
Crediti formativi universitari (CFU)	8
Settore scientifico disciplinare	SECS-P/13

Programme of Commodity Science (a.a.2015-2016)
(Prof. Teodoro Gallucci)

Università degli Studi di Bari Aldo Moro
Corso di Laurea- Business Administration

Pre-requisite

NONE

Obiettivi del corso

Aim 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 attention will be given to 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.

Programme

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)

Fossil fuels. Coal. Oil and its derivatives. Gaseous fuels.

Electricity. Nuclear power.

Renewable Energy carriers.; Biofuels

Energy and the environment. Consumption patter of energy.

Part III (Metallurgic and chemical industries)

Metals (Iron and Steel).

Sulfuric acid, fertilizers, petrochemical industry.

Part IV (Food, Water and Biomass)

Food scarcity.

Commodities from biomass.

Features of water, Water resources and desalinization.

Part V (Environmental Management)

Environmental Management Systems and the sustainable indicators.

Supporting materials

Gallucci T., lecture notes.

Methods of verification

- Intermediate exercises: No
- Written: No
- Oral: yes

Organization of teaching method

- Lectures: yes
- Integrative Course: no
- Exercise :Yes
- Laboratory: No
- Project work: Yes
- Plant Visits: no