Instructor's name	Prof. Paiano Annarita
BA	Economics and Management
Academic year	2013-2014
Term	First
Credits	6
Subject area	SECS-P/13

Course of Technology of Production Cycles

a.y. 2013/2014

(Prof. Paiano Annarita)

University of Bari Aldo Moro

Department of Business and Law Studies

BA Economics and Management

Admission criteria

None

Aim of the course

The course *Technology of the production cycles* aims to provide students with the knowledge and expertise concerning the analysis of production processes, both environmentally and economically. The close relationship already existing between these two aspects, both in regulation and management, will allow to learn strategic tools for an optimal management of the economic organization.

Course Outline

- ***Introduction to the technology of production cycles***
- ***The production process***
    Analysis and description of a production process
    Environmental accounting of production processes
    The natural capital
- ***Case studies***
    The biofuels production cycle
    The electricity production cycle. The case study of photovoltaic
    The production cycle of aluminum
    The production cycle of "pasta"
- ***Strategies and tools for environmental analysis***
    Strategies for sustainable development
    DFE (Design for Environment)
    Management of commodities end of life

LCA (Life Cycle Assessment) and MFA (Material Flow Accounting)
The ecological footprint
- ***The IPPC (Integrated Pollution Prevention and Control)***
The BAT (Best Available Technologies) and their application

Reading material

Lecture Notes available at the Department

References

Camaggio, Lagioia, Amicarelli, Paiano, Lobefaro, "Il ruolo dei biocombustibili negli scenari energetici", WIP Edizioni, 2011, Bari.
Leoci, "Cicli produttivi e merci", ARACNE Editrice, 2007, Roma.

Assessment methods

- Mid-session Exam: No
- Written Assessment: No
- Oral Assessment: Yes

Tutorials

- E-learning area of the Faculty Web Site: No

Teaching methods

- Lectures: Yes
- Supplementary courses: No
- Tutorials: Yes
- Seminars: Yes
- Laboratory activities: No
- Project works: Yes
- Visiting study: Yes