

| | |
|--------------------------|--------------------------|
| Instructor's name | Prof. Paiano Annarita |
| BA | Economics and Management |
| Academic year | 2015-2016 |
| Term | First |
| Credits | 6 |
| Subject area | SECS-P/13 |

Course of Technology of Production Cycles

a.y. 2015/2016

(Prof. Paiano Annarita)

University of Bari Aldo Moro
Department of Business and Law Studies
BA Economics and Management

Admission criteria

The exam of General Business Administration SECS-P/07 has to be passed.

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
- **EMAS (Environmental Management and Audit Scheme)**

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