



ANNO ACCADEMICO: 2019-2020

INSEGNAMENTO/MODULO:

ENERGY ECONOMICS

TIPOLOGIA DI ATTIVITÀ FORMATIVA:

BASIC

DOCENTE: PERCOCO ANNALISA

e-mail:

annalisa.percoco@gmail.com

sito web:

telefono:

cell. di servizio

(facoltativo):

Lingua di insegnamento: ITALIANO

n. CFU: 8

n. ore: 56

Sede: Potenza

Dipartimento/Scuola:

CdS:

DIMIE

Semestre:

II

## EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course deals with the different aspects of energy and energy policy by providing a basic knowledge and methodology for understanding energy issues, both from the point of view of public and business policies.

Main topics:

The energy policies of the European Union and Italy.

Exhaustive energy sources (oil, gas, coal).

Renewable energy sources.

The technical and economic characteristics of the energy chains.

The industrial organization of the energy sectors.

The operation of national and international markets (including power exchanges).

The institutional aspects of energy sector regulation.

The economic analysis contents applied to energy include:

The analysis of energy demand.

Optimization of the electric park.

Incentive regulation.

The micro and macroeconomic impacts of energy policies.

## SYLLABUS

- Energy policy: objectives, tools and contents.
- The link between energy and environmental issues: local problems and global problems.
- The energy balance.
- Renewable and non-renewable sources.
- The determinants of energy demand.
- The theory of exhaustible resources.
- The industry and the oil trade.
- The industry and the gas trade.
- Principles and practical aspects of regulation.
- The liberalization of electricity and gas markets in the EU.
- Operation and organization of the electrical industry.
- Electric Markets (Power Bags).



The economy of electronucleus production.
TEACHING METHODS Theoretical lessons, Project works,
EVALUATION METHODS Written examination, Discussion of a project work,
TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL <i>Energy Economics. Concepts, issues, markets and governance</i> , di Subhes C. Bhattacharyya, Springer Educational material available at the end of each lesson.
INTERACTION WITH STUDENTS At the end of each lesson and via mail.
EXAMINATION SESSIONS
SEMINARY BY EXTERNAL EXPERTS YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
FURTHER INFORMATION