



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Economia Dell'ambiente e Dell'energia

2122-1-F7501Q076

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#### Aims

The course aims at delivering the basic microeconomic tools \_\_\_\_\_

#### Contents

The course consists of two fundamental parts: the first one focuses on energy economics, starting from the \_\_\_\_\_

According to the latter issue, the recent energy markets liberalization process, its outcomes and constraints will be \_\_\_\_\_

Features and functioning of power, oil and gas markets, will be highlighted, paying particular attention to access \_\_\_\_\_

The second part of the course will be devoted to the main issues of environmental eco. \_\_\_\_\_

The functioning of the main environmental markets will be explained and analysed.

#### Detailed program

FIRST PART - Energy Economics

1. Analysis of the current international energy context
2. Reserves, resources and Hubbert's peak
3. Renewables and non-renewables
4. The price of stock energy sources
5. Energy policy and liberalisation process
6. The national energy balance
7. Energy Efficiency
8. Energy demand and its determinants
9. The natural gas market

#### SECOND PART - Environmental economics

1. Economic growth and environment
2. The concepts of environment and sustainable development
4. Market failures: externalities and public goods
5. Environmental policy economic and non-economic instruments (centralised and non-centralised)
6. Environmental markets
7. Environmental goods evaluation methodologies
8. The Life Cycle Assessment (LCA) of environmental burdens
9. Cost/benefit analysis (CBA)
10. The Kyoto Protocol and climate change

#### **Prerequisites**

None

#### **Teaching form**

Classes, 8 credits - 64 hours

If necessary the teaching will be transformed in online classes, following the University guidelines.

#### **Textbook and teaching resource**

References:

Energy economics: Ferdinand E. Banks, Energy and Economic Theory, World Scientific Editions, 2015.

Environmental economics: R.K. Turner, D.W. Pearce, I. Bateman, Economia ambientale, Il Mulino, 2003.

Supplementary online material will be provided on the e-learning platform

## **Semester**

Second term

## **Assessment method**

The exam will be held exclusively in viva \_\_\_\_\_

The knowledge required to sustain the test are represented by those acquired during \_\_\_\_\_

Students may submit a written essay on a topic analyzed during classes.

The assessment will be based on the completeness of the preparation, on the degree of understanding of the \_\_\_\_\_

Adequate weight will also be given to the candidate's language skills and exhibition capacity.

## **Office hours**

Tuesday at 15, room 3076, building U6- 3rd floor

Online meetings can be arranged upon request.

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