



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Green Economy - 1

2425-1-F7701M131-F7701M131-2-T1

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#### Learning objectives

The module aims to transfer knowledge of the main drivers of EU environmental policy to students, which will lead to a significant change in the EU production structure. The two main guidelines on which the course is developed concern the economic-industrial analysis of sustainable development and fight against climate change policies and circular economy policies and the efficient use of natural resources. With reference to sustainability policies, the course aims to provide students with the tools to understand the main policies for containing climate-changing gas emissions by analyzing economic and industrial policy tools. The aim of the module is to understand the benefits of the policies adopted, the risks in terms of industrial competitiveness, the manufacturing sectors and the opportunities for industrial growth deriving from the development of the green economy sectors. With reference to the circular economy objectives, the course focuses on the main tools adopted for the efficient use of natural resources and the effects of these policies on the productive and industrial fabric. The course also provides elements of analysis of energy markets in relation to the objectives of reducing fossil fuels, the incremental use of renewable energy resources and energy efficiency. Finally, the course provides market analysis tools for waste management as well as strategies for the reduction, recycling and reuse of waste in a circular economy perspective.

#### Contents

The first part of the course aims to connect the industrial economic analysis tools to the environmental economic analysis tools. To better understand the environmental economic analysis tools, it is important that the student addresses the framework and the structure of the objectives of the European Green New Deal with a precise focus of the main components of the policy guidelines for reducing emissions (ETS Effort Sharing) to the 2030 and 2050. The third part of the course provides the elements of economic analysis for the management of environmental policies from a theoretical economic point of view. The fourth part of the course focuses on the new lines of development of the energy markets within the new decarbonisation processes. The fifth part considers the effects on the competitiveness of the production system and the opportunities for industrial development

## **Detailed program**

1. Environmental economics, sustainable development goals and European scenarios by 2050;
2. Economic growth, natural resources, demographic trends and sustainable development;
3. Functioning of markets and the causes of their failure
4. Public intervention and causes of its failure
5. Cost-benefit analysis and uncertainty
6. European policies for sustainability 2030 and 2050 and the 2015 Paris agreements
7. European policies for the circular economy and optimal management of resources
8. Fossil fuel market scenario
9. The European ETS mechanism. The new directive and the 2030 objectives
10. Ecological taxes
11. Carbon tax and the use of taxation for environmental protection
12. Use of the market and standards to protect the environment
13. Command and control mechanisms, setting standards
14. Market mechanisms. Comparative evaluation of market instruments.
15. The Clean Energy Package and the process of liberalization of the electricity markets
16. Renewable electricity sources: incentive mechanisms and technological prospects. Energy efficiency policies
17. The liberalization of the natural gas market.
18. Waste management: collection and treatment and disposal phases
19. Policies to prevent waste and optimal use of resources
20. The industrial dimension of the Green Economy sectors

## **Prerequisites**

Microeconomics and business economics

## **Teaching methods**

Frontal lessons

## **Assessment methods**

Written exam

## **Textbooks and Reading Materials**

Environmental economics ISSN 9781307873924.

Other material will be provided by the teacher

## **Semester**

II

## **Teaching language**

Italian

## **Sustainable Development Goals**

AFFORDABLE AND CLEAN ENERGY | CLIMATE ACTION

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