



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Laboratorio 7

2425-3-E1601N086

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#### Learning objectives

The aim of this workshop is to provide the tools necessary to understand the current sustainability challenges from an economic, political, social and environmental perspective. In the workshop, the different ways of responding to these challenges will be illustrated – through case studies and practical examples – by looking at different levels of action (e.g. individuals, communities, companies and governments). The aim is to develop an interdisciplinary pathway that enables students to acquire the necessary training to address the topic of sustainability in a broad and transversal manner.

The workshop will provide the competence to

- develop analytical skills (problem identification and systemic reasoning)
- identify transformative actions for sustainability, considering the contexts of action, problems and actors involved (public, private, etc.).

#### Contents

Activities will be structured in such a way as to enable students to tackle concrete sustainability problems by critically confronting case studies and the tools currently available to solve them. This will allow them to

- grasp the core notions of sustainability (history, changes and limits)
- precisely define the topic of sustainability
- identify problems and solutions to promote sustainability
- conduct research, define case studies and choose appropriate tools
- alternating theory and practice through exercises

## **Detailed program**

The workshop will serve to develop and consolidate analytical and practical skills related to sustainability and the effects that the climate and ecological crisis may have on social, economic and political life. An important part of this training is to identify, circumscribe and construct appropriate responses to sustainability issues – distinguishing different levels of action, appropriate contexts and the social and technical construction of these responses. Each section will present a topic central to sustainability (such as energy, agriculture, health, etc.), currently available analysis tools and examples of innovative solutions. Case studies will be the focus of the workshop activities, where students will have to explore them – individually or in groups – exercising their ability to critically analyse problems (through existing contexts, actors and institutions), as well as exploring the various tools that can contribute to changes towards sustainability. This will enable them to address concrete problems, considering the limits and potential for action of individuals, companies and governments.

In this context, the notion of research – and of analytical and critical capacity – becomes central as an essential tool for building just and sustainable societies.

## **Prerequisites**

Prerequisites required to participate in third-year workshops:

- Be enrolled from year 3 onwards.
- Having passed the Mathematics and Statistics examinations.
- Have obtained 90 CFU or more (at the time of enrolment in the workshop).
- Planned workshops.

## **Teaching methods**

Laboratory activities will be carried out through Erogative Didactics (ED) and Interactive Didactics (ID).

Erogative Didactics (ED) will consist of face-to-face classroom teaching, focusing on the presentation and introduction of general content on the topic of the workshop section (there will be 6 sections in total), important concepts for interpreting sustainability issues and analytical tools that will enable students to critically analyse case studies and evaluate possible actions and solutions to contemporary environmental problems.

Interactive teaching (ID) will be the practical time in the laboratory where students will have to analyse sustainability-related case studies and projects. The interactive activities will mainly consist of individual and group work to discuss and analyse the case studies and develop – based on the conditions of each case – possible virtuous actions to improve the socio-environmental conditions present.

The workshop consists of 24 hours. The activities will be distributed between 30-40% ED and 60-70% ID – depending on the topics covered and the case studies to be analysed

## **Assessment methods**

Assessment of suitability with regard to participation and classroom work.

## **Textbooks and Reading Materials**

The texts will be distributed before each section and will consist of a reference text for each selected topic (such as Energy, Agriculture, Mobility, etc.) and case studies chosen by the workshop responsible. The selection will be based on the representativeness of the cases, their relevance in terms of problem description and the abundance of data. All texts and case studies will also be chosen based on the availability of access for all students.

## **Sustainable Development Goals**

CLIMATE ACTION

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