UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Introduction to multisciplinary aspects of sustainability

2627-102R-10

Title

Introduction to multisciplinary aspects of sustainability

Teacher(s)

Emilio Padoa-Schioppa, Matteo Colleoni, Andrea Galimberti

Language

English

Short description

Objectives
The aim of the course is to provide a transdisciplinary introduction to the concepts of sustainability.

Part 1 (Emilio Padoa-Schioppa)
Concept of sustainability
The Anthropocene epoch
Scientific approaches to sustainability epoch
Ecosystem services and Ecological footprint evaluation

Part 2 (Andrea Galimberti)
Social justice and social inclusion
Sustainability, social justice and social inclusion
Sustainability and Education: policies, strategies and practices

Part 3 (Matteo Colleoni)
Strategies for no-carbon and sustainable infrastructures and mobility in urban environments
International context of policies against climate change
Decarbonisation of the transport system
Strategies and policies for the decarbonisation of transport

Conclusions (all)
Sustainability and research
Short discussion of students (to organize/reading different papers about this theme and presenting some output)

Target audience
PhD students with not specific knowledge or skills in sustainability sciences, but that are interested in understanding how a transdisciplinary approach can leverage the change of paradigm needed to match sustainability goals.

Participants
Min 10 Max 50

Notes
The course style will be process-oriented and interactive. Theoretical inputs will be followed by exercises, partner work, role-plays, case studies and group-work, when appropriate. Each lesson will have focus on specific topic, with hooks with all the others. The language and the level of details will be tailored to the specific needs of the actual audience; in case of lack of basic elements or knowledge, these will be provided either by the lecturer or by providing PhD students with specific documents. During the lessons participants will receive references to the literature needed and vison papers, as well as suggestions of relevant platforms and websites that can be useful.

CFU / Hours

2 CFU / 16 hrs

Teaching period

10/12/26 2.30 - 6.30 pm U3-04
20/02/27 2.30 - 6.30 pm U6-42
25/01/27 9:30 am - 1.30 pm U6-42
24/02/27 2.00 - 6.00 pm TBD

course registration on “Segreterie online”: from 09/11/2026 to 30/11/2026

Sustainable Development Goals

NO POVERTY | ZERO HUNGER | GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY | CLEAN WATER AND SANITATION | AFFORDABLE AND CLEAN ENERGY | DECENT WORK AND ECONOMIC GROWTH | INDUSTRY, INNOVATION AND INFRASTRUCTURE | REDUCED INEQUALITIES | SUSTAINABLE CITIES AND COMMUNITIES | RESPONSIBLE CONSUMPTION AND PRODUCTION | CLIMATE ACTION | LIFE BELOW WATER | LIFE ON LAND | PEACE, JUSTICE AND STRONG INSTITUTIONS | PARTNERSHIPS FOR THE GOALS