



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Advanced Microeconomics

2425-2-F8204B037-F8204B038M

Learning objectives

Learning area
Microeconomics

The course objective is twofold. First, it aims to introduce students to the advanced tools of microeconomics, with a specific attention to game theory. Furthermore, it aims to show how to apply these tools to the analysis of market structures, under several strategic and/or informative environments.

Contents

The course introduces the main elements of non-cooperative game theory in a setting of (in)complete information (both static and dynamic games). The game theoretical tools are then used to discuss the main models of industrial economics (oligopoly, collusion and product differentiation).

Detailed program

- Static games
- Static models of oligopoly
- Dynamic games
- Dynamic models of oligopoly
- Repeated games
- Collusion
- Horizontal and vertical product differentiation
- Bayesian Games

Prerequisites

Microeconomics M

The course is not suitable for undergraduate students enrolled in the Erasmus Program.

Teaching methods

The following teaching methods are adopted:

30 hours of frontal lessons

12 hours of interactive lessons

Part of these lessons (no more than 15% of the total hours) are carried out remotely depending on the lesson timetable for the academic year. 2024-2025

The course will be done in English.

Assessment methods

The exam is written and it aims at verifying (i) knowledge of the material (proofs and theoretical models); (ii) analytical ability to apply the material (exercises); (iii) economic intuition and ability to use models to comment on economics cases. Students will be allowed to give an oral presentation of a team work at the end of the course. The performance of the presentation will contribute to the final mark. The team work is not compulsory.

Textbooks and Reading Materials

1. Church J. and R. Ware (2000), Industrial Organization. A strategic Approach, first edition, McGraw-Hill.
(Available for free: https://works.bepress.com/jeffrey_church/23/)
2. Mas-Colell A., M.D. Whinston and J. Green (1995), Microeconomic theory, Oxford University Press.

Semester

First Semester

Teaching language

English

Sustainable Development Goals

RESPONSIBLE CONSUMPTION AND PRODUCTION
