# **Doctoral Program in Economics**







Academic year 2024/25

# MICROECONOMICS

#### Period:

Second term: January and February 2025

#### **Course hours:**

20

# **Teachers:**

Nicola Dimitri (resp. 12 h), Pietro Battiston (8h),

# **Exam methods:**

3 hours written examination

#### **Prerequisites**

Basic Microeconomics, Calculus, Basic Statistics

#### Production Theory, Expected Utility, General Equilibrium 12h, prof. Dimitri

#### Program

Technology and production function Cost function Profit function Duality Preferences under uncertainty Expected utility Walrasian Equilibrium Arrow-Debreu Equilibrium

# **Educational objectives**

In this module the students will learn the fundamentals of neoclassical production theory, expected utility and general equilibriumat an advanced level

# **Bibliographical references**

Much of the material will refer to:

Jehel& Reny (2001) Advanced Microeconomic Theory (2<sup>nd</sup> ed.) Addison Wesley. Mass-Colell, Whinston & Green (1995) Microeconomic Theory, Oxford University Press Munoz-Garcia (2017) Advanced Microeconomic Theory, MIT Press Varian (1992) Microeconomic Analysis (3rd ed) Norton

In case, additional references will be provided by the lecturer

#### Consumption Theory, 8h, prof. Battiston

#### Program

Preferences Utility Function Expenditure Function Demand function Duality of Marshallian and Hicksian demand function Slutsky Equation

#### **Educational objectives**

In this module the students will learn the fundamentals of neoclassical consumption theory at an advanced level

#### **Bibliographical references**

Much of the material will refer to:

Mass-Colell, Whinston & Green (1995) *Microeconomic Theory*, Oxford University Press Jehel& Reny (2011) *Advanced Microeconomic Theory* (3<sup>rd</sup> ed.) Prentice Hall. Varian (1992) *Microeconomic Analysis* (3<sup>rd</sup> ed) Norton In case, additional references will be provided by the lecturer