

**Module:** II – Economic Principles

**Name of course:** Microeconomics

**Course instructor:** Paolo Paesani Candidate in Economics – Department of Economics and Finance – University of Rome “Tor Vergata” – paolo.paesani@uniroma2.it

**Contents /syllabus:**

The goal of this course is to introduce students to the fundamentals of mathematical economics focusing on microeconomic analysis.

The course starts by discussing the representation of technology and firm behaviour (profit maximization, cost minimization, cost functions). The second part of the course will be devoted to choice theory (utility maximization, choice demand, consumers surplus, uncertainty). Part three will bring together demand and supply to discuss different market regimes, ranging from perfect competition to monopoly and oligopoly. Possible additional topics to be defined with the students include inter-temporal choice, asset markets, public goods, externalities.

Students are expected to be familiar with the notions of function, vector, matrix, derivative, differential and with elementary algebra.

**Duration:** 21 hours

**Exam:** Written test, three questions/exercises, maximum 10 points each.

**Recommended reading:** Varian H.R., Microeconomic Analysis, Norton International Students edition; 3rd edition.

**Additional reading:** Wainwright K., Chiang A., Fundamental methods of Mathematical Economics, McGraw Hill; 4th edition.

**Office hours:** upon request of the student.