

MICROECONOMICS I: GENERAL EQUILIBRIUM
PHD IN ECONOMICS AND FINANCE, BOCCONI UNIVERSITY

FALL 2022

SYLLABUS

1. MATHEMATICAL PRELIMINARIES
Concavity and differentiability; Extreme value theorem; Kuhn-Tucker theorem; Implicit function theorem; Kakutani fixed point theorem; Farkas lemma.
2. THEORY OF THE NEOCLASSICAL FIRM
Existence, Uniqueness, Characterization, Sensitivity of optimal solution.
3. THEORY OF THE HOUSEHOLD
Existence, Uniqueness, Characterization, Sensitivity of optimal solution.
4. GENERAL EQUILIBRIUM: DEFINITION AND EXISTENCE
Walrasian allocations; Smooth equilibrium equations; Existence theorem.
5. GENERAL EQUILIBRIUM: DETERMINACY AND OPTIMALITY
Transversality theorem; Finite local uniqueness; Basic welfare theorems.
6. FINANCIAL EQUILIBRIUM
Contingent commodities markets; Financial equilibrium; No arbitrage theorem; Arrow equivalence theorem; Equivalent asset structures.
7. FURTHER TOPICS
Basic welfare theorems in basic model; Market imperfections.