# UCLouvain

## lecon2112
### 2023

# Advanced Microeconomics II: game theory and information economics

| 5.00 credits | 30.0 h + 6.0 h | Q2 |
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| Teacher(s) | Maniquet François ; |
| Language : | English |
| Place of the course | Louvain-la-Neuve |
| Main themes | Building upon the tools of decision and game theory acquired in Advanced Microeconomics I, the course is divided in two main sections. In the first section, General Competittive Analysis is developed both in its positive and normative dimensions. In the second section, the problem of designing efficient allocation mechanisms is studied in a general perspective. Incomplete information and incentives issues are introduced. The design of auctions and public good mechanisms is included. |
| Learning outcomes | **At the end of this learning unit, the student is able to :** |
| | 1    The objective of the course is to provide the basic microeconomic tools to be used in the analysis of problems of resource allocation by economists working in research, in businees or in various organisations. The course adopts both a positive and a normative approach. It includes recent advances of the theory and aims at develop-ing the capacity to apply economic concepts to real-world problems. |
| Evaluation methods | The grade will be determined by a final written examination |
| Teaching methods | Lectures and exercises sessions |
| Content | The first part of the course will be devoted to an introduction to game theory (basic concepts of dominant, undominated, rationalizable strategies, Nash, Bayesian Nash and subgame perfect Nash equilibrium) with some applications. The second part will be devoted to topics in social choice theory (the Arrow theorem), bargaining theory and information economics. |
| Inline resources | Homeworks for the exercises sessions available on Moodle |
| Other infos | Like for Advanced Microeconomics I, the textbook is the Mas-Colell Whinston Green 'Microeconomic theory' book. |
| Faculty or entity in charge | ECON |

## Programmes containing this learning unit (UE)

| Program title | Acronym | Credits | Prerequisite | Learning outcomes |
|---|---|---|---|---|
| Master [120] in Economics: Econometrics | ETRI2M | 5 | | 🔍 |
| Master [120] in Economics: General | ECON2M | 5 | | 🔍 |