

Course Specifications

From the academic year 2017-2018 up to and including the

Advanced Microeconomics: Game Theory and Asymmetric Information (F000118)

Course size (nominal values; actual values may depend on programme)
Credits 6.0 Study time 180 h Contact hrs 45.0 h

Course offerings in academic year 2018-2019

A (semester 1) English
B (semester 1) Dutch, English

Lecturers in academic year 2018-2019

Offered in the following programmes in 2018-2019 crdts offering

Teaching languages

Dutch, English

Keywords

micro economics, game theory

Position of the course

The aim of the course is to explain basic concepts of the theory of games. These concepts will be applied to a number of important economic problems.

Contents

The course deals with non cooperative game theory. First we discuss the major concepts and solutions (dominant strategies, Nash equilibrium, refinements of Nash equilibrium) for games with complete information. Next we discuss games with incomplete information, followed by games with repeated interaction. We end with a discussion of evolutionary games. Each type of game will be illustrated by an application.

Initial competences

Micro-economics: decision theory.

Final competences

- 1 Understand game theoretic concepts.
- 2 Use game theoretic concepts in applications.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

Access to this course unit via an exam contract is unrestricted

Teaching methods

Lecture, seminar: coached exercises

Extra information on the teaching methods

Lectures.

Learning materials and price

Vega-Redondo, F. (2003), Economics and the theory of games, Cambridge University Press.

Gibbons, R. (1992), A primer in game theory, Prentice Hall Cost: 50 EUR

References

- Mas-Colell, A, M.D. Whinston en J.R. Green (1995), Oxford University Press.
- Vega-Redondo, F. (2003), Economics and the theory of games, Cambridge University Press.

Course content-related study coaching

Study coaching will be done by the professor.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination

Examination methods in case of periodic evaluation during the second examination period

Written examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Extra information on the examination methods

Written exam.

Calculation of the examination mark