

Curso Académico: ( 2021 / 2022 )

Fecha de revisión: 28-06-2021

Departamento asignado a la asignatura: Departamento de Economía

Coordinador/a: MARHUENDA HURTADO, FRANCISCO

Tipo: Optativa Créditos ECTS : 6.0

Curso : 1 Cuatrimestre : 1

**REQUISITOS (ASIGNATURAS O MATERIAS CUYO CONOCIMIENTO SE PRESUPONE)**

Basic calculus and probability theory

**OBJETIVOS**

- Teaches students the standards of precision and rigor in economic analysis and professional communication.
- Emphasizes autonomous and group learning.
- Familiarizes students with the theory of individual decision under uncertainty, and provides a set of tools appropriate for the analysis of individuals' interactions in strategic settings.

Enlace al documento

**DESCRIPCIÓN DE CONTENIDOS: PROGRAMA**

- 1 What is game theory? Normal form games
- 2 Extensive form games
- 3 Applications
- 4 Repeated games
- 5 Static games of incomplete information
- 6 Dynamic games of incomplete information

**ACTIVIDADES FORMATIVAS, METODOLOGÍA A UTILIZAR Y RÉGIMEN DE TUTORÍAS**

- Lectures in which the basic material is presented and discussed. Basic textbook references are provided with to complete and deepen students' understanding.
- Discussion of the solution to practical exercises to provide students with feedback on their level of understanding and difficulties.

**SISTEMA DE EVALUACIÓN**

- Quizzes (20%)
- Midterm (40%);
- Final exam (40%).

**Peso porcentual del Examen Final:** 60**Peso porcentual del resto de la evaluación:** 40**BIBLIOGRAFÍA BÁSICA**

- A. Dixit and S. Skeath Games of Strategy, New York: W. W. Norton, 1999
- E. Prisner Game Theory Through Examples, The Mathematical Association of America, 2014
- H. Gintis and S. Schechter Game Theory in Action. An Introduction to Classical and Evolutionary Models, Princeton UP, 2016
- H. S. Bierman and L. Fernandez Game Theory with Economic Applications, Second Edition, Addison-Wesley, 1998
- K. Binmore Game theory: A Very Short Introduction, Oxford UP, 2007
- Lindley Making Decisions, , John Wiley & Sons, 1985
- M. Osborne An Introduction to Game Theory, Oxford UP, 2003
- M. Peterson An Introduction to Decision Theory, Cambridge UP, 2009
- R Gardner: Games for Business and Economics, New York: John Wiley & Sons, 1995
- R. Gibbons Game Theory for Applied Economists, Princeton UP, 1992

- R. Myerson: Game Theory: Analysis of Conflict, , Harvard UP, 1991

#### BIBLIOGRAFÍA COMPLEMENTARIA

- Sanchez Cuenca, Ignacio Teoría de Juegos, Centro de Investigaciones Sociológicas, 2004

- Tadelis, S Game Theory, An Introduction, Princeton University Press.