

Academic Year: ( 2024 / 2025 )

Review date: 22-11-2022

Department assigned to the subject: Social Sciences Department

Coordinating teacher: SANCHEZ-CUENCA RODRIGUEZ, IGNACIO

Type: Compulsory ECTS Credits : 6.0

Year : 2 Semester : 1

Branch of knowledge: Social Sciences and Law

#### DESCRIPTION OF CONTENTS: PROGRAMME

1. Decisión theory: individual decision making under uncertainty
2. Non-cooperative static games, Nash equilibrium
3. Repeated games, folk theorems, and the emergence of reciprocity rules
4. Imperfect information games, signaling, reputational effects
5. Cooperative games, bargaining

#### ASSESSMENT SYSTEM

<b>% end-of-term-examination:</b>	20
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	80

Students are expected to solve three problem sets individually, each of them carrying a 20% weight over the final grade.

There will be a final test (20%) and a term paper to be written in groups about applications of game theory to the social sciences (e.g. international relations, electoral competition, political regimes).

#### BASIC BIBLIOGRAPHY

- Martin Osborne An Introduction to Game Theory, Oxford University Press, 2004
- Morrow, James Game Theory for Political Scientists, University of Michigan Press, 1994
- Ordeshook, Peter A Political Theory Primer, Routledge, 1992