

Enquire Teaching Timetable

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Course Outcome

ECON 3160 - Game Theory

Learning Outcome

1. Understand important solution concepts in game theory.
2. Gain insights on strategic interactions in social and economic contexts.
3. Obtain basic skills on game theoretic modeling and analysis.

Course Syllabus

1. Strategic Games: Nash equilibrium in pure and mixed strategies, dominance, rationalizability
2. Extensive Games with Perfect Information: backward induction, subgame perfect equilibrium
3. Bayesian Games: Bayesian games, Bayesian Nash equilibrium, public good provision, auction
4. Extensive Games with Imperfect Information: beliefs, sequential rationality, weak perfect Bayesian equilibrium, sequential equilibrium, signaling games
5. Repeated Games: finitely vs. infinitely repeated games, repeated prisoners' dilemma, folk theorems

Assessment Type

	Assessment Type	Current Percent
1	Essay test or exam	90
2	Others	10

Feedback for Evaluation

Course and teaching evaluation at end of course
Informal feedback channels throughout the course (face-to-face, email, etc)
Departmental retreat
Program review

Required Readings

Martin Osborne, An Introduction to Game Theory, Oxford University Press, 2009.

Recommended Readings

Avinash Dixit and Barry J. Nalebuff, Thinking Strategically: The Competitive Edge in Business, Politics, and Everyday Life, Norton, 1993.