
CURSO: Graduação em Economia – 1º semestre de 2022

DISCIPLINA: Game Theory

PROFESSORA: Katia Aiko Nishiyama Alves

IDIOMA: Inglês

CARGA HORÁRIA: 30h

HORÁRIO E SALA DE ATENDIMENTO: Sexta-feira, 9:00 – 11:00, sala 1020 D.

SALA:

PLANO DE ENSINO

1. Ementa

Strategic games. Dominance. Rationalizability. Nash equilibrium. Mixed strategies. Games in extensive form. Backward induction. Subgame perfection. Bayesian games. Extensive games of imperfect information. Repeated games. Bargaining.

2. Objetivos da disciplina

This course aims to cover the fundamentals of non-cooperative game theory with perfect and imperfect information.

3. Objetivos centrais de aprendizagem

Understand the basic concepts in the field and apply them to model and analyze situations of economic relevance.

4. Relação da disciplina com o debate contemporâneo

Non-cooperative game theory studies the interaction of strategic agents and how their individual incentives translate into social outcomes. As such is relevant to think about a vast array of real-world problems involving multiple actors with diverse agendas and interests.

5. Procedimentos de ensino (metodologia)

Expository lectures with examples and economic applications.

6. Conteúdo programático detalhado

Datas	Tópico
18,25/02	Introduction and course presentation, a little history
Março	Strategic games of complete information
Abril	Extensive games of complete information
Maio	Games of incomplete information, applications (Auction and Matching Markets)
Junho	Applications

7. Procedimentos de avaliação

We will have at least one Exam + Assignments.

8. Bibliografia Obrigatória

We will mainly rely on lecture notes and slides. As a complement, I recommend Osborne (2003) and also Gibbons (1992). A very nice treatment, though somewhat more advanced, treatment is Osborne and Rubinstein (1993).

9. Bibliografia Complementar

Robert Gibbons. Game Theory for Applied Economists. Princeton University Press, 1992.

Martin J. Osborne. An Introduction to Game theory. Oxford University Press, 2003.

Martin J. Osborne and Ariel Rubinstein. An Introduction to Game theory. The MIT Press, 1993.

10. Minicurrículo do(s) Professor(s)

Doutora em Economia (2020) pela Escola de Pós-Graduação em Economia da Fundação Getúlio Vargas (FGV EPGE). Possui graduação em Economia pela FGV EPGE (2015). Licenciada em Matemática (2011) pela Universidade Estadual Paulista Júlio de Mesquita Filho. Experiência na área de Economia, com ênfase em mercados de matching e suas aplicações.

11. Link para o Currículo Lattes

