

科目ナンバリング		U-LAS06 10019 LE43							
授業科目名 <英訳>		Introduction to Game Theory-E2 Introduction to Game Theory-E2				担当者所属 職名・氏名		経済学研究科 特定助教 李 晨	
群	人文・社会科学科目群			分野(分類)	法・政治・経済(基礎)			使用言語	英語
旧群	A群	単位数	2単位	週コマ数	1コマ	授業形態	講義（対面授業科目）		
開講年度・ 開講期	2024・前期		曜時限	月3/月4		配当学年	主として1回生	対象学生	全学向
【授業の概要・目的】									
<p>Game theory studies the strategic interactions among players. It provides new tools and insights in understanding and explaining socioeconomic phenomenon. Game theory has also been widely applied to other subjects such as law, political economy, sociology, life science, and engineering. This course introduces basic concepts, analytical tools, and modelling techniques in the applied game theory. In particular, it covers the socioeconomic applications such as pricing behaviors of firms, voting procedures, public resource management, evolution of species, and school choice.</p>									
【到達目標】									
<ul style="list-style-type: none"> ・ Learning the underlying principles of applied game theory ・ Acquiring the skills to analyze problems of students' own interests 									
【授業計画と内容】									
<p>The lectures will be organized as follows.</p> <ol style="list-style-type: none"> 1. Introduction to strategic reasoning 2. Introduction to strategic modelling 3. Nash equilibrium in the discrete game 4. Nash equilibrium in the continuous game I: Theory 5. Nash equilibrium in the continuous game II: Applications 6. Sequential game with perfect information I: Theory 7. Sequential game with perfect information II: Applications 8. Sequential game with imperfect information I: Theory 9. Sequential game with imperfect information II: Applications 10. Games with private information I: Theory 11. Games with private information II: Applications 12. Evolutionary game and biology I 13. Evolutionary game and biology II 14. Review lecture <p>Total: 14 classes and 1 feedback</p>									
【履修要件】									
<p>Some topics require basic knowledge of derivatives and integrals.</p>									
<div>----- Introduction to Game Theory-E2(2)へ続く -----</div>									

Introduction to Game Theory-E2(2)

【成績評価の方法・観点】

Homework and class participation (30%)
Final examination (70%)

【教科書】

授業中に指示する

【参考書等】

（参考書）
授業中に紹介する

【授業外学修（予習・復習）等】

Students will be assigned three problem sets as the homework.

【その他（オフィスアワー等）】

Office hour by appointment