



課 綱 Course Outline
國際經濟研究所碩士班

中文課程名稱 Course Name in Chinese	賽局理論與經濟應用(二)				
英文課程名稱 Course Name in English	Game Theory with Economic Applications (II)				
科目代碼 Course Code	IIE_57400	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite	賽局理論與經濟應用(一)				
課程目標 Course Objectives					
近年來經濟分析大量引用賽局理論，研究生必須充分掌握此一工具，方有能力學習與理解新的經濟理論，為獨立的研究能力奠定基礎					
課程大綱 Course Outline					
<p>1、Dynamic Games of Incomplete Information</p> <p>(1) Equilibrium Refinements: Perfect Bayesian Equilibrium,</p> <p>(2) Sequential Equilibrium, and Trembling-Hand Perfection. Perfect</p> <p>(3) Bayesian Equilibrium in Multi-Stage Games of Incomplete</p> <p>(4) Information, Extensive-Form Refinements, Strategic-form</p> <p>(5) Refinements.</p> <p>2、Reputation Effects. Games with Single Long-Run Player, Games with many Long-Run Players,</p> <p style="padding-left: 20px;">A Single "Big" Player Against Many Simultaneous Long-Lived Opponents</p> <p>3、Sequential Bargaining under Incomplete Information.</p> <p>(1) Intertemporal Price Discrimination: The Single-Sale Model,</p> <p>(2) Intertemporal Price Discrimination: The Rental or Repeated-Sale</p> <p>(3) Model, Price Offers by an Informed Buyer</p> <p>4、More Equilibrium Refinements: Stability, Forward Induction, and</p> <p>(1) Iterated Weak Dominance.</p> <p>5、More Equilibrium Refinements: Stability, Forward Induction, and Iterated Weak Dominance. Strategic Stability, Signaling Courses, Forward Induction, Iterated Weak</p> <p style="padding-left: 20px;">Dominance, and "Burning Money", Robust Predictions under Payoff Uncertainty</p> <p>6、Advanced Topics in Strategic-Form Games. Generic Properties of Nash Equilibria, Existence</p> <p style="padding-left: 20px;">of Nash Equilibrium in Games with Continuous Action Spaces and Discontinuous Payoffs,</p> <p style="padding-left: 20px;">Supermodular Games.</p> <p>7、Payoff-Relevant Strategies and Markov Equilibrium. Markov</p> <p>(1) Equilibria in Specific Cases of Games, Markov Perfect</p>					

(2) Equilibrium in General Games: Definitions and Properties, (3) Differential Games, Capital-Accumulation Games 8、Common Knowledge Game
資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等) Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods
本課程以講授方式進行，輔以課堂討論。
其他 Miscellaneous