



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					
1、Dynamic Games of Incomplete Information (1) Equilibrium Refinements: Perfect Bayesian Equilibrium, (2) Sequential Equilibrium, and Trembling-Hand Perfection. Perfect (3) Bayesian Equilibrium in Multi-Stage Games of Incomplete (4) Information, Extensive-Form Refinements, Strategic-form (5) Refinements. 2、Reputation Effects. Games with Single Long-Run Player, Games with many Long-Run Players, A Single "Big" Player Against Many Simultaneous Long-Lived Opponents 3、Sequential Bargaining under Incomplete Information. (1) Intertemporal Price Discrimination: The Single-Sale Model, (2) Intertemporal Price Discrimination: The Rental or Repeated-Sale (3) Model, Price Offers by an Informed Buyer 4、More Equilibrium Refinements: Stability, Forward Induction, and (1) Iterated Weak Dominance. 5、More Equilibrium Refinements: Stability, Forward Induction, and Iterated Weak Dominance. Strategic Stability, Signaling Courses, Forward Induction, Iterated Weak Dominance, and "Burning Money", Robust Predictions under Payoff Uncertainty 6、Advanced Topics in Strategic-Form Games. Generic Properties of Nash Equilibria, Existence of Nash Equilibrium in Games with Continuous Action Spaces and Discontinuous Payoffs, Supermodular Games. 7、Payoff-Relevant Strategies and Markov Equilibrium. Markov (1) Equilibria in Specific Cases of Games, Markov Perfect					

(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