



課 綱 Course Outline

應用數學系博士班

中文課程名稱 Course Name in Chinese		對局論			
英文課程名稱 Course Name in English		Game Theory			
科目代碼 Course Code		AM__72000	班 別 Degree	博士班 Ph. D.	
修別 Type		選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s) 3.0
先修課程 Prerequisite		無			
課程目標 Course Objectives					
建立對局論的基礎。(Introduction of game theory)					
系教育目標 Dept.'s Education Objectives					
1	訓練嚴謹思考與推理能力。 To provide a solid training in rigorous thinking and reasoning ability.				
2	奠定理論與應用數學的基礎知識。 To establish well-founded background knowledge in pure and applied mathematics.				
3	具備跨領域學習能力。 To prepare the students for interdisciplinary study in the future.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備專業知識及邏輯推理能力 Have well-founded expertise and be capable of logical reasoning.			○	
B	具備學習其它學科的能力，以期能邁向跨領域研究。 Be able to study other fields of science so as to conduct interdisciplinary research in the future.			●	
C	具備獨立思考與解決問題的能力。 Be capable of independent thinking and have the problem-solving skills.			●	
圖示說明Illustration：● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱 Course Outline					

介紹合作與不合作對局論。課程偏重在合作對局論。將以公設化理論及動態理論來處理合作對局論的資源配置。 (cooperative games and non-cooperative games; axiomatizations of solution concepts;dynamic theory to solution concepts)
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.)
由本系專任教授任教。
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods
上課講授，討論，作業，及期中、期末考 (Lectures, discussions, homework, midterm and final exams)
其他 Miscellaneous
撰寫人：應用數學系 黃延安 撰寫日：100年4月