



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

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