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②国玄東華大學

課 網 Course Outline

應用數學系博士班

中文課程名稱 Course Name in Chinese	實變函數論(一)					
英文課程名稱 Course Name in English	Real Analysis (I)					
科目代碼 Course Code	AM70700	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 None					
	Cour	課程目標 se Objectives				
	般測度空間及其積分。 s course is to introdu	uce general me	easure spaces a	and integrat	ion over	
		系教育目標 lucation Objec	etives			
1 訓練嚴謹思考與 To provide a se				ability.		
7 1	數學的基礎知識。 ell-founded background	knowledge in	pure and appl	ied mathemat	ics.	
3 具備跨領域學習 To prepare the	能力。 students for interdis	ciplinary stu	dy in the futu	re.		
系專業能力 Basic Learning Outcomes				力相關性 Correlati between (課程目標與系專業能 力相關性 Correlation between Course Objectives and	
				Dept.'s	Dept.'s Education Objectives	
具備專業知識及邏輯推理能力 A Have well-founded expertise and be capable of logical reasoning.					•	
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.					0	
	解決問題的能力。 independent thinking a	nd have the p	roblem-solving		•	
圖示說明Illustrati	on :● 高度相關 Highl	y correlated	○中度相關 Mod	lerately cor	related	

課程大綱 Course Outline

- 1. Algebras of sets
- 2. Lebesgue measure theory
- 3. General measurable spaces
- 4. The Caratheodory measure induced by an outer measure
- 5. The constructions of outer measures
- 6. Lebesgue integration
- 7. Integration over general measure spaces

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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.)

本系專任教師與助教

The faculties of Applied Mathematics Department

課程要求和教學方式之建議

Course Requirements and Suggested Teaching Methods

演講、習題、考試

Lecture, homework and exams

其他

Miscellaneous

撰寫人:應用數學系 黃淑琴

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