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# ②图玄束華大學

图 2 水平大学							
教學計劃表 Syllabus							
課程名稱(中文) Course Name in Chinese	分析導論				學年/學期 Academic Year/Se	113/2	
課程名稱(英文) Course Name in English	Introduction to Analysis						
科目代碼 Course Code	AM58000	系級 Department 碩士 & Year		ıΓ	開課單位 Course-Offering Department	應用數學系	
修別 Type	必修 Required	學分數/時間 Credit(s)/Hour(s)			3.0/3.0		
授課教師 Instructor	/王昆?						
先修課程 Prerequisite							
課程描述 Course Description							
In this course we will cov 1. review some subjects 2. metric spaces; 3. completeness; 4. compactness; 5. connectedness.		ng topics:					

There are homeworks every week including presenting these in class.

#### 課程目標 Course Objectives

### 本課程主要目標以為高等數學分析課程或是相關課程之基礎。

Provide a smooth transition from college analysis to more advanced courses in analysis.

		課程目標與系專業能
		力相關性
	糸專業能力	Correlation between
		Course Objectives
	Basic Learning Outcomes	and Dept.'s
		Education
		Objectives
A	具備專業數學知識及邏輯推理能力。Have well-founded expertise in mathematics and be capable of logical reasoning.	•
В	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	
С	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.	0

# 圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

## 授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	review set theory	
2	review set theory	
3	review set theory	
4	review set theory	
5	metric spaces	

6	metric spaces						
7	completeness						
8	completeness						
9	期中考試週 Midterm Exam						
10	compactness						
11	compactness						
12	compactness						
13	compactness						
14	connectedness						
15	connectedness						
16	connectedness						
17	connectedness						
18	期末考試週 Final Exam						
	教學策略 Teaching Strategies						
✓ 課堂講	授 Lecture	Field Trip					
其他Mis	scellaneous:						
	教 學 創 新 自 評 Teaching Self-Evaluation						
創新教學(	Innovative Teaching)						
問題導向學習(PBL) 團體合作學習(TBL) 解決導向學習(SBL)							
■ 翻轉教室 Flipped Classroom							
社會責任(Social Responsibility)							
│							
一 跨域合作(Transdisciplinary Projects)							
■ 跨界教學Transdisciplinary Teaching ■ 跨院系教學Inter-collegiate Teaching							
□ 業師合授 Courses Co-taught with Industry Practitioners							
其它 other:							

學期成績計算及多元評量方式 Grading & Assessments										
配分項目	配分比例 Percentage	多元評量方式 Assessments								
Items		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他	
平時成績(含出缺席) General Performance (Attendance Record)										
期中考成績 Midterm Exam	30%	<b>~</b>								
期末考成績 Final Exam	40%	~								
作業成績 Homework and/or Assignments	30%		~							
其他 Miscellaneous										

評量方式補充說明

Grading & Assessments Supplemental instructions

## 教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.) lecture notes will be provided (pdf file).

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

其他補充說明(Supplemental instructions)