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②图 i 東華大學 教學計劃表 Syllabus

		教与	學計劃表	Syll	abus				
	名稱(中文) me in Chinese	實變函數論(一)AA			學年/學期 Academic Year/Seme	112/2			
	名稱(英文) me in English	Real Analysis (I)							
	目代碼 cse Code	AM5270AA).	應用數學系					
	修別 Type	必修 Required P分數/時間 Credit(s)/Hour(s) 3.0/3.0							
	課教師 tructor	/陳中壹							
	先修課程 Prerequisite								
		課	程描述 Course	e Descript	tion				
This course dedicates to the problem-solving of calculus of the field of real number.									
		課	程目標 Cours	se Objecti	ives				
	為介紹一般測度空 e of this course		ce general mea	asure spac	es and integration	over th	iese spaces.		
条專業能力 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 statis	stics, and good ar	nalytical ability	in solving rea	al problems	se in probability and s. catistical computing		•		
B									
					度相關 Moderately	corre	lated		
		授課進	度表 Teaching	g Schedule	e & Content				
週次Week	內容 Subject/Topics				備註Remarks				
1	Review of advar	nced calculus.(
2	(228 off)								
3	Review of advar	deview of advanced calculus.(2)							
4	Introduction t	Introduction to derivatives.							
5	Introduction to Riemann integral. (1)								
6	Introduction to	roduction to Riemann integral. (2)							
7	Introduction to infinite series and infinite products. (1)								
8	Introduction to infinite series and infinite products. (2)								

9	期中考試週 Midterm Exam						
10	Introduction to the Lesbegue Integral. (1)						
11	Introduction to the Lesbegue Integral. (2)						
12	Introduction to the Lesbegue Integral. (3)						
13	Introduction to the multiple Riemann Integral. (1)						
14	Introduction to the multiple Riemann Integral. (2)						
15	Introduction to the multiple Lesbeque Integral. (1)						
16	Introduction to the multiple Lesbeque Integral. (2)						
17	Chauchy Theorem						
18	期末考試週 Final Exam						
教學策略 Teaching Strategies							
✓ 課堂講授 Lecture							
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)							
在地實踐Community Practice							
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 General Performance	20%								
期中考成績 Midterm Exam	40%								
期末考成績 Final Exam	40%								
作業成績 Homework and/or Assignments									
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.)

- 1. Mathematical analysis 2.ed edition Apostol.
- 2. Real analysis. Royden.

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)