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## ②國玄東華大學

## 教學計劃表 Syllabus

	名稱(中文) me in Chinese	對局論AB			學年/學期 Academic Year/Sem	ester	112/1			
	名稱(英文) me in English	h Game Theory								
	·目代碼 rse Code	系級 AM_5430AB Department		開課單位 Course-Offering Department	,	應用數學系				
	修別 Type	選修 Elective								
	課教師 tructor	/黄延安								
	.修課程 equisite									
		課	程描述 Course	e Descrip	tion					
建立對局論的基礎,介紹合作與不合作對局論。課程偏重在合作對局論。將介紹在TU對局與NTU對局上的幾個熟悉的解,並以公設化理論及動態理論來處理它										
課程目標 Course Objectives										
建立對局論的基礎。(Introduction of game theory)										
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 capabl	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.									
scienc	目供學習其它學科的能力,以期能漢句跨領場研究。Re able to study other fields of									
	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										
		授課進	度 表 Teaching	g Schedule	e & Content					
週次Week	ek 內容 Subject/Topics					備註Remarks				
1	Introduction									
2	Non-cooperative									
3	Shapley value (									
4	Shapley value (2)									
5	Shapley value(3)									
6	期中考									
7	Core (1)									
8	core (2)									

9	prekernal						
10	Bargaining set, prenucleolus, stable set						
11	Bargaining set, prenucleolus, stable set						
12	NTU games						
13	Shapley solution						
14	Harsanyi solution						
15	monotonic solution						
16	NTU core						
17	期末考試週 Final Exam						
18	自主學習						
教學策略 Teaching Strategies							
✓ 課堂講授 Lecture							
其他Miscellaneous:							
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 ■ 産學合作 Industy-Academia Cooperation							
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%	<b>~</b>							
期末考成績 Final Exam	40%	<b>~</b>							
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.)

Game Theory, by Guillermo Owen

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)