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## ②國玄東華大學

## 教學計劃表 Syllabus

	名稱(中文) ume in Chinese	機率			學年/學期 Academic Year/Seme	113/2				
	名稱(英文) ume in English	Probability								
	↑目代碼 rse Code	系級 開課單位 Course-Offering Department & Year Department				資訊工程學系				
	修別 Type	學程 Program 學分數/時間 Credit(s)/Hour(s) 3.0/3.0								
	き課教師 structor	/李官陵								
	た修課程 requisite									
課程描述 Course Description										
The purpose of the course is to provide a comprehensive introduction to probability models most likely to be encountered and used by students in their careers in engineering and the nature sciences.										
		課	程目標 Cour	se Object	ives					
	The purpose aims at giving an understanding of probability and its applications in the area of electrical engineering.									
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 資訊專業終身學習能力Ability of lifetime learning in information profession									
	B 實驗驗證資訊科學能力Ability of validate experimental result validation in information science field									
D 資訊系統應用設計開發能力Ability of information application system design and development							0			
E 團隊台										
	育通訊科技問題解決能力Ability of problem solving regarding information and communication technology									
[-	膀盤資訊科技多元影響能力Ability to understand information technology's multiple						0			
	II									
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	1 Introduction									
2	2 Descriptive statistics									
3	3 Probability-basic concept(I)									

4	Probability-basic concept(II)						
5	Discrete random variables and probability distributions(I)						
6	Exam 1						
7	holiday						
8	Discrete random variables and probability distributions(II)						
9	Continuous random variables(I)						
10	Continuous random variables(II)						
11	Joint probability distributions(I)						
12	Exam2						
13	Joint probability distributions(II)						
14	The distribution of the sample mean						
15	General concept of point estimation						
16	Methods of point estimation						
17	Exam3						
18	consultation						
	教 學 策 略 Teaching Strategies						
✓ 課堂講	受 Lecture 分組討論Group Discussion 零觀實習 Field Trip						
上 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)							
在地實踐Community Practice							
— 跨域合作('	Transdisciplinary Projects)						
一跨界教學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)	7%	>	<b>~</b>						
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous (three exams)	93%	<b>~</b>					<b>~</b>		

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.)

Probability and Statistics for Engineering and the sciences, Ninth Edition, International Edition, Brooks/Cole, Cengage learning

Jay L. Devore

## 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.)

e-learning website

其他補充說明(Supplemental instructions)