② 图 z 東華大學 教學計劃表 Syllabus

		727	- 미 町 1 八	by I I abl	i.o				
	名稱(中文) me in Chinese	AA 學年/學期 Academic Year/S				mester	113/1		
	名稱(英文) me in English	Advanced Statistics							
	目代碼 rse Code	AM_5360AA	系級 開課單位 AA Department & Year Department						
	修別 Type	Requi red	.0/3.0						
	課教師 tructor	/		•					
	修課程 equisite								
課程描述 Course Description									
Basic course for statistical reasoning. Develops the theoretical framework in terms of measure theory. Treats various aspects of the point estimation problem 課程目標 Course Objectives									
Theory of r	ool nt ooti mati on								
Theory of point estimation 系專業能力 Basic Learning Outcomes							程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education Objectives		
A Have well-founded expertise in probability and statistics, and good analytical ability in solving real problems. Have the computer programming and statistical computing									
B skills			Be able to	study other					
Sci end		· · ·	ary research in the ghly correlated		關 Moderatel	y corre	lated		
		授課進	度表 Teaching Sc	hedule & C	Content				
週次Week	次Week 内容 Subject/Topics				備註Remarks				
1	Introducing measure theory, integration theory and convergence theorems								
2	Relating to probability theory								
3	Exponential families of distributions								
4	Sufficiency and minimal sufficiency								
5	Conti nuati on								
6	3, 1								
7	7 Convex Loss functions								

8	UNWU UNWU estimators							
9	Midterm Exam							
10	UNWU UNWU estimators							
11	Information inequality							
12	Convergence in probability and in distribution							
13	Conti nuati on							
14	Asymptotic efficiency							
15	Maximum likelihood estimators and efficiency							
16	asymptotic confidence intervals							
17	EMal gori thms.							
18	Fi nal Exam							
	教 學 策 略 Teaching Strategies							
	Lecture Group Discussion Field Trip Miscel I aneous: Lectures, problem sets and examinations							
	教學創新自評 Teaching Self-Evaluation							
	(Innovative Teaching)							
	(PBL) (TBL) (SBL)							
	Flipped Classroom Mocs							
	(Social Responsibility)							
	Community Practice Industy-Academia Cooperation							
	(Transdi sci pl i nary Proj ects)							
	Transdi sci pl i nary Teachi ng Inter-col l egi ate Teachi ng							
	Courses Co-taught with Industry Practitioners							
	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
() General Performance (Attendance Record)									
Midterm Exam	30%								
Fi nal Exam	30%								
Homework and/or Assignments	40%								
Miscel I aneous									

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.)

Textbook: Lehmann and Casella, "Theory of point estimation".

Reference: Casella and Berger, "Statistical inference".

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)