②国o支束華大學 教學計劃表 Syllabus

	名稱(中文) me in Chinese	應用統計分析方法				學年/學期 Academic Year/Sem	113/1			
	名稱(英文) me in English	Applied Statistic analysis								
	目代碼 rse Code	NRES71200	Department 博士 Course		開課單位 Course-Offering Department	自然資源與環境學系				
	修別 Type	選修 Elective 學分數/時間 Credit(s)/Hour(s) 3.0/3.0								
	課教師 tructor	/李俊鴻								
	修課程 equisite									
課程描述 Course Description										
Applied Statistical Methods covers the fundamental understanding of statistical methods necessary to deal with a wide variety of practical problems. We focusing on presents the topics covered in a manner that stresses clarity of understanding, interpretation, and method of application.										
This is an introductory course for students in NRES and CES. In this course the students will learn the principles and methods of statistical analysis, but will also put them into practice using a range of real-world data sets. The objective is to provide a basic understanding of data analysis using statistics and to use computational tools on problems of applied nature. Moreover, we also can use this method to analyze the research questions on ecotourism, tourist attractions, environmental education, protected area management, human-wildlife conflicts, and the endangered species conservation et al.										
課程目標 Course Objectives										
This is an introductory course for students in NRES and CES. In this course the students will learn the principles and methods of statistical analysis, but will also put them into practice using a range of real-world data sets. The objective is to provide a basic understanding of data analysis using statistics and to use computational tools on problems of applied nature. Moreover, we also can use this method to analyze the research questions on ecotourism, tourist attractions, environmental education, protected area management, human-wildlife conflicts, and the endangered species conservation et al.										
圖示說明Illustration :● 高度相關 Highly correlated ○中度相關 Moderately correlated										
		授課進	度 表 Teachin	g Sched	lule	& Content				
週次Week		內容	Subject/Topi	CS			1	猜註Remarks		
1	Introduction to	on to applied statistical method								
2	Introduction to statistical/data analysis software, Data definitionSPSS & LIMDEPDescriptive statistics and CorrelationSPSS & LIMDEP						LIMDEP			
3	Individual report I- Data definition Descriptive statistics and									
4	Hypothesis test	esis test and One-way ANOVA								
5	Individual repo	ort II-Hypothesis test and One-way ANOVA								
6		ession Analysis (1) ession: Regression with a Binary Dependent Variable(1)								
7		gression Analysis (2) gression: Regression with a Binary Dependent Variable(2)								

8	Individual report III-Regression with a Binary Dependent Variable							
9	Exploratory Factor Analysis Cluster analysis, Cross table & Chi-square test							
10	Individual report IV Exploratory Factor Analysis Cluster analysis, Cross table & Chi-square test							
11	Conjoint Analysis Structural Equations Modeling Overview Importance-Performance Analysis							
12	Individual report V Importance-Performance Analysis							
13	Contingent valuation and Choice Experiment 1							
14	Contingent valuation and Choice Experiment 2							
15	Individual report VI							
Choice Experiment								
16	Overall discussion							
17	Final Report 1							
18	Final Report 2							
	教學策略 Teaching Strategies							
✓ 課堂講授 Lecture ✓ 分組討論Group Discussion 參觀實習 Field Trip								
L								
	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)								
□ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■								
社會責任(Social Responsibility)								
↓ ↓ 在地實踐Community Practice								
✓ 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	多元評量方式 Assessments							
Items	Percentage	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									
期末考成績 Final Exam	20%		~	~	~				
作業成績 Homework and/or Assignments	60%		~	~					
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.)									
Joseph F. Hair Jr. William C. Black Barry J. Babin Rolph E. Anderson, 2014, "Multivariate Data Analysis, "7th ed., Prentice-Hall									
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)									