南臺科技大學 106 學年度第 2 學期課程資訊

課程代碼	N0M00F01
課程中文名稱	統計資料分析方法
課程英文名稱	Statistical data analysis
學分數	3.0
必選修	選修
開課班級	碩商管國際一甲
任課教師	顏慧
上課教室(時間)	週四第 6 節(E0604) 週四第 7 節(E0604) 週四第 8 節(E0604)
課程時數	3
實習時數	0
授課語言 1	英語
授課語言 2	
輔導考照 1	
輔導考照 2	
課程概述	This course is the second part of a sequence of statistical data analysis courses: "Statistical Data Analytic Methods (I)", "Statistical Data Analytic Methods (II)", and "Advanced Statistical Data Analytic Methods". Materials covered in the sequence consist of univariate statistical methods, and multivariate statistical methods. These courses are to help students, primarily from business and social sciences, learn the application of the basic and advanced data analytic techniques. We will emphasize the concepts of every given technique and its use, and will help students learn how to interpret the resulting output obtained from the widely used statistical package SPSS(Statistical Package for Social Sciences) or SAS(Statistical Analysis System).
先修科目或預備能力	
課程學習目標與核心能力之對應	
中文課程大綱	英文全程教學,無須中文課程大綱。
英/日文課程大綱	1. Tests of Population Means (Continue) (1) Two-way ANOVA (2) Three-way ANOVA (3) Multi-way ANOVA 2. Studying the Relationships among Two or More Quantitative Variables

	(1) Correlation Analysis
	(2) Regression Analysis
	3. Tests of Population Proportions
	(1) Tests for Two Population Proportions：Independent Samples
	(Binomial Test，Z-test (Normal Approximation)，Chi-Square Tests for
	Independence：Contingency Table Analysis)
	(2) Tests for Two Population Proportions：Paired Samples
	(McNemar Test)
	(3) Tests for More Than Two Population Proportions：Independent Samples
	(Chi-Square Tests of Independence：Contingency Table Analysis)
	(4) Tests for More Than Two Population Proportions：Dependent Samples
	(Cochran's Q Test)
	4. Analysis of Data for Multiple Choices
	5. Nonparametric Methods
	(1) Spearman Rank Correlation Coefficient
	(2) Chi-Square Test
	(3) McNemar Test
	(4) Cochran's Q Test
	6. Analysis of Covariance
	7. Multivariate Data Analysis (I)
	(1) Principal Components Analysis
	(2) Exploratory Factor Analysis
	(3) Reliability and Validity Analysis
	(4) Canonical Correlation Analysis
	(5) Cluster Analysis
課程進度表	
教學方式與評量方法	
指定用書	
參考書籍	
教學軟體	
課程規範	