| 南臺科技大學 105 學年度第 2 學期課程資訊 | |
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| 課程名稱 | 統計資料分析方法 |
| 課程編碼 | N0M00F01 |
| 系所代碼 | 0N |
| 開課班級 | 碩商管國際一甲 |
| 開課教師 | 顏慧 |
| 學分 | 3.0 |
| 時數 | 3 |
| 上課節次地點 | 四 6 7 8 教室 S209A |
| 必選修 | 選修 |
| 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). |
| 課程目標 | At the end of this course, students will be able to learn the basics of statistical data |
| | analysis, and will be aware of the importance of statistical analysis for conducting |
| | a scientific research. A wrongly doing statistical analysis which results in a |
| | misleading conclusion is worse than no analysis. Students will be introduced to |
| | the essentials of having an appropriate statistical analysis. |
| 課程大綱 | 英文全程教學,無須中文課程大綱。 |
| 英文大綱 | |
| | 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 |
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| 教學方式 | |
| 評量方法 | |
| 指定用書 | |
| 參考書籍 | |
| 先修科目 | |
| 教學資源 | |
| 注意事項 | |
| 全程外語授課 | 1 |
| 授課語言1 | 英語 |
| 授課語言 2 | |
| 輔導考照1 | |
| 輔導考照 2 | |