



課 綱 Course Outline

管理學院管理科學與財金國際學士學位學程學士班

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| 中文課程名稱 Course Name in Chinese | 統計學(二) | | | | |
| 英文課程名稱 Course Name in English | Statistics(II) | | | | |
| 科目代碼 Course Code | MSF_10190 | 班 別 Degree | 學士班 Bachelor' s | | |
| 修別 Type | 學程 Program | 學分數 Credit(s) | 3.0 | 時 數 Hour(s) | 3.0 |
| 先修課程 Prerequisite | Statistics (I) | | | | |
| 課程目標 Course Objectives | | | | | |
| This is the second semester of a general survey in statistics which will emphasize techniques of regression, chi-square (categorical data), nonparametric inference, time series, decision analysis, and other topics used in economics and business. | | | | | |
| 系教育目標 Dept.'s Education Objectives | | | | | |
| 1 | 培育具備良好數量分析能力之管理人才。 Cultivating management professionals with outstanding ability in quantitative analysis. | | | | |
| 2 | 培育具備財務金融專業知識之人才。 Cultivating professionals with finance-specific knowledge. | | | | |
| 3 | 培育具備國際視野與外語溝通能力之人才。 Cultivating professionals with a global vision and the ability in foreign-language communication. | | | | |
| 4 | 培育具備決策分析與問題解決之技能的管理人才。 Cultivating management professionals with knowledge and skills in decision analysis and problem solving. | | | | |
| 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 | 能以數量方法分析與解決問題。 Using quantitative methods to analyze and solve problems. | | | ● | |
| B | 具備財務金融領域之分析能力。 Equipped with the ability to analyze finance. | | | ○ | |

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| C | 能善用資訊科技進行資料分析、統整與呈現。 Using information technology to analyze, integrate, and present data. | ● |
| D | 具備國際視野與專業外語能力。 Equipped with a global vision and specialized foreign language proficiency. | ● |
| E | 具備掌握財經時事議題及研判財經趨勢之能力。 Equipped with the ability to master topics of finance and economy, and other current news, and to diagnose financial and economic tendencies. | ○ |
| F | 具備一般管理的基礎知識。 Equipped with basic knowledge of management in general. | ○ |

圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱 Course Outline

- 1 Introduction to Course
Review Chapter 1-7.
- 2 Chapter 8 Sampling methods and the Central limit Theorem
- 3 Chapter 10 Hypothesis Testing (Z test)
Chapter 11 Two-Sample Tests of Hypothesis
- 4 Test I
- 5 Chapter 12 Analysis of Variance
- 6 Chapter 13 Correlation and Linear Regression
- 7 Chapter 13 Correlation and Linear Regression
& Review for Test II
- 8 Midterm Exam (Test II)
- 9 Chapter 14 Multiple Regression Analysis
- 10 Chapter 14 Multiple Regression Analysis
- 11 Chapter 15 Nonparametric Methods Chi-Square Applications
- 12 Test III
- 13 Chapter 18 Forecasting with Time Series Analysis
- 14 Chapter 18 Forecasting with Time Series Analysis
- 15 Chapter 19 Statistical Process Control and Quality Management
- 16 Chapter 19 Statistical Process Control and Quality Management
- 17 Final Exam (Test IV)
- 18 Flexibility

資源需求評估（師資專長之聘任、儀器設備的配合．．．等）
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

Classroom and its facilities

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

Lecture

其他
Miscellaneous