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②国玄東華大學

課 網 Course Outline

財務金融學系碩士班國際組

中文課程名稱 Course Name in Chinese	應用統計分析					
英文課程名稱 Course Name in English	Applied Statistical Analysis					
科目代碼 Course Code	FIN_M0290	班 別 Degree	碩士班 Master's			
修別 Type	選修 Elective	學分數 Credit(s)	3. 0	時 數 Hour(s)	3. 0	
先修課程 Prerequisite						
		課程目標 e Objectives				
students after taki 1. the choice of pro 2. the operations of 3. the complete proc	•	pected to be ds; ons such as id from applicat 教育目標	familiar with SPSS;			
		cation Objec	etives			
1 培育具有理論背景之財金專業人才 Cultivate talents and skills in the realm of professional finance.						
1 7 1	r需之財務決策及管理人才 nts needed for our nat		ic and busine	ss enviroment	-	
1 3 1	L能力之財金專業人才 cial research skills a	nd talents.				
系專業能力 Basic Learning Outcomes			力相關性 Correlati between (Objective Dept.'s	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
A 具備財務金融的分析能力 Understanding the financial analysis.					•	
IRI	具備企業財務管理專業能力 Capabilities for business financial management.				0	
C 具備英語閱讀溝通協調等能力 English reading ability of communication and coordination.				0		

D 具備獨立研究之技能,以進行財金議題研究 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■					
Independent research skills to research financial issues.					
E 具備個人投資理財能力					
Investment and financial management.					
F 具備電腦程式運算及設計能力					
Ability of computer programs, algorithms and application.					
圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated					
課程大綱					
Course Outline					
1 Course orientation					
2 Essentials of research methodology and SPSS overview					
3 Basic statistics (descriptive statistics) in SPSS					
4 Fundamental inference statistics: t-test and $\chi 2$ test					
5 Regression (1): fundamentals					
6 Regression (2): linear regression (moderation & control)					
7 Regression (3): logistic regression & dummy variables					
8 Regression (4): nonlinear regression					
9 Mid-term exam					
10 One-way ANOVA and ANCOVA					
11 Two-way ANOVA					
12 MANOVA					
13 Prediction & classification: Discriminate analysis					
14 Data reduction: principal component & factor analysis					
15 Case reduction: cluster analysis					
16 Panel data analysis (LIMDEP)					
17 Structural Equation Model (AMOS)					
18 Final exam					
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.)					
A professor of quantitative specialties					
Statistical software					
Personal computers					
課程要求和教學方式之建議					
Course Requirements and Suggested Teaching Methods					
1. lecture					
2. demonstration					
3. practice					
4. exams					
5. project					
其他					
Miscellaneous					