Tamkang University Academic Year 104, 2nd Semester Course Syllabus

Course Title	QUANTITATIVE ANALYSIS (II)	Instructor	CHUN-HUNG LIN
Course Class	TLEXM1A MASTER'S PROGRAM, DEPARTMENT OF INDUSTRIAL ECONOMICS, 1A	Details	RequiredOne Semester3 Credits

Departmental Aim of Education

- I. Training up students to establish the specialized knowledge in industrial economics.
- II. Training up students to strengthen the diversity of knowledge in learning.
- III. Training up students with the ability in researches.
- IV. Training up students with the self-cultivation in moral character.
- V. Training up students with the macroscopic vision in globalization.
- VI. Training up students with the leadership in industrial development.

Departmental core competences

- A. With the ability of academic research in industrial economics.
- B. With the ability of theoretical modeling and empirical applications.
- C. With the ability of data collection and literature review.
- D. With the ability of searching research topics.
- E. With the ability of independent research in advanced practical analyses and industrial policy-making.

	Introducing advanced econometrics concepts and empirical analyses, including 2SLS, non-linear limited dependent variable models and simultaneous equation.	
	Furthermore, various time series models are also discussed in this course.	
Course Introduction		

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation, P6-Origination

(iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing, A4-Organizing, A5-Charaterizing, A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences:

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	1 Enhance students' understanding on advanced econometric concepts.	P6	ВС	
	2 Applications and analyses of advanced econometric theories.3 Provide a basic training for empirical research of students' theses.			
2	Strengthen students' ability in empirical econometric analyses	P3	ВС	
3	Strengthen students' ability in empirical economteric analyses	C3	ВС	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	1 Enhance students' understanding on advanced econometric concepts. 2 Applications and analyses of advanced econometric theories. 3 Provide a basic training for empirical research of students' theses.	Lecture, Discussion, Practicum	Written test, Practicum, Report, Participation
2	Strengthen students' ability in empirical econometric analyses	Lecture, Discussion, Simulation, Practicum, Problem solving	Practicum, Report, Participation
3	Strengthen students' ability in empirical economteric analyses	Lecture, Discussion, Practicum, Problem solving	Practicum, Report, Participation

Essential Qualities of TKU Students		Qualities of TKU Students	Descripti	Description		
♦ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.			
◇ Information literacy		teracy	Becoming adept at using information tech the proper way to process information.	Becoming adept at using information technology and learning the proper way to process information.		
◆ A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.			
◇ Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.			
◆ Independent thinking		thinking	,	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
A cheerful attitude and healthy lifestyle		itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.			
♦ A spirit of teamwork and dedication		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.			
A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.			
Course Schedule						
Week	Date	S	Subject/Topics Note			
1	105/02/15 ~ 105/02/21	Chapter 15: IV estimation and 2SLS (II)				
2	105/02/22 ~ 105/02/28	Chapter 16: Simultaneous equation (I)				
3	105/02/29 ~ 105/03/06	228 國定假日				
4	105/03/07 ~ 105/03/13	Chapter 16: Simultaneous ed	quation (II)			
5	105/03/14 ~ 105/03/20	Chapter 17: Limited dependent variable models (I)				
6	105/03/21 ~ 105/03/27	Chapter 17: Limited dependent variable models (II)				
7	105/03/28 ~ 105/04/03	Chapter 5: Univariate time series modelling and forecasting (I)				
8	105/04/04 ~ 105/04/10	Chapter 5: Univariate time series modelling and forecasting (II)				
9	105/04/11 ~ 105/04/17	Chapter 6: Multivariate models (I)				
10	105/04/18 ~ 105/04/24	Chapter 6: Multivariate models (II)				
11	105/04/25 ~ 105/05/01	Chapter 7: Modelling long-ru	un relationships in finance			

12	105/05/02 ~ 105/05/08	Chapter 7: Modelling long-run relationships in finance (II)		
13	105/05/09 ~ 105/05/15	Chapter 8: Modelling volatility and correlation (I)		
14 105/05/16~ Chap		Chapter 8: Modelling volatility and correlation (II)		
15	105/05/23 ~ 105/05/29	Chapter 9: Switching Models (I)		
16	105/05/30 ~ 105/06/05	Chapter 9: Switching Models (II)		
17	105/06/06 ~ 105/06/12	Chapter 10: Panel data (I)		
18	105/06/13 ~ 105/06/19	Chapter 10: Panel data (II)		
Requirement				
Teaching Facility C		Computer, Projector		
Textbook(s)		"Introductory Econometrics for Finance" by Chris Brooks, 2nd Edition, Cambridge.		
Reference(s)		"Applied Econometric Time Series", by Walter Enders, 2nd Edition, Wiley.		
Number of Assignment(s)		10 (Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: 20.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 30.0 % ◆ Other ⟨ ⟩ : % 		
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php . WInauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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