Tamkang University Academic Year 102, 1st Semester Course Syllabus

Course Title	ECONOMETRICS (I)	Instructor	PEI-CHIEN LIN	
Course Class	TLEXM1A MASTER'S PROGRAM, DEPARTMENT OF INDUSTRIAL ECONOMICS, 1A	Details	 Required One Semester 2 Credits 	
	Departmental teaching obje	ectives		
	gram: To cultivate students to be a person with academic researce alytical techniques.	ch abilities and	ł	
	Departmental core compet	ences		
A. The abil	ty of academic research in industrial economics.			
B. The abil	ty of theoretical modeling and empirical applications.			
C. The abil	ty of data collection and literature review.			
D. The abil	ty of reading and writing papers in English.			
E. The abil	ty of searching research topics.			
F. The abil	ty of cooperating with advisors in writing academic research pa	pers.		
G. With the	e required knowledge in pursuing Ph.D. program.			
	H. The ability of independent research in advanced practical analyses and industrial policy-making.			
Course Introduction			nent or types) analyze ata,	

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 Operati	on, P5-Automation,	P6-Origination
(iii) Affective Domain :	Al-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 To establish students' knowledge in Econometrics.	C2	AC	
2	2. To cultivate students' capability of theoretical reasoning and empirical modeling.	C3	ABCD	
3	3. To assist students finding interesting research topics.	C4	EFH	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	1 To establish students' knowledge in Econometrics.	Lecture, Discussion	Written test, Practicum, Participation
2	2. To cultivate students' capability of theoretical reasoning and empirical modeling.	Lecture, Discussion, Practicum	Written test, Practicum, Participation
3	3. To assist students finding interesting research topics.	Discussion, Practicum	Practicum, Participation

	Т	his course has been designed to	o cultivate the following essential qualities	in TKU students	
Essential Qualities of TKU Students		Qualities of TKU Students	Description		
\diamondsuit A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
• Information literacy		eracy	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.		
\bigcirc 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		hinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\bigcirc A cheerful attitude and healthy lifestyle		tude 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		nwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
\diamondsuit A sense of aesthetic appreciation		thetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.		
		1	Course Schedule		
Week	Date	Subject/Topics		Note	
1	102/09/16~ 102/09/22	Econometrics and Economic Data			
2	102/09/23~ 102/09/29	Multiple Regression (Estimation)			
3	102/09/30~ 102/10/06	Multiple Regression (Estimation)		Assignment 1	
4	102/10/07 ~ 102/10/13	Multiple Regression (Inference)			
5	102/10/14 ~ 102/10/20	Multiple Regression (Inference and large sample test)		Assignment 2	
6	102/10/21~ 102/10/27	In class homework presentation and discussion (1)			
7	102/10/28~ 102/11/03	Multiple Regression (further issues)		Assignment 3	
8	102/11/04 ~ 102/11/10	Multiple Regression Analysis with Qualitative Information: Binary (or Dummy Variable)			
9	102/11/11 ~ 102/11/17	Multiple Regression Analysis with Qualitative Information: Binary (or Dummy Variable)		Assignment 4	
10	102/11/18~ 102/11/24	In class homework presentation and discussion (2)			
11	102/11/25~ 102/12/01	Heteroskedasticity			
12	102/12/02 ~ 102/12/08	Heteroskedasticity/Autocorrelation		Assignment 5	

13	102/12/09~ 102/12/15	Autocorrelation	
14	102/12/16~ 102/12/22	More on Specification and Data Issues	Assignment 6
15	102/12/23 ~ 102/12/29	In class homework presentation and discussion (3)	
16	102/12/30~ 103/01/05	National Holiday	
17	103/01/06~ 103/01/12	More on Specification and Data Issues	
18	103/01/13~ 103/01/19	Final Exam	
Re	quirement		
Теа	Teaching Facility Computer, Projector		
1. Wooldridge, J. M., Introductory Econometrics: A Modern Approach, 5th ed. 2013. Textbook(s)		. 2013.	
Reference(s) 2. Maddala, C. S., Introduction to Econometrics, 4rd ed. 2010.			
Number of Assignment(s)6(Filled in by assignment instructor only)			
Grading Policy → Attendance: 10.0 % → Mark of Usual: 60.0 % → Midterm Ex → Final Exam: 30.0 % → Other < >: %		m Exam: %	
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