Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title ECONOMETRICS		Instructor	LIU, CHIA-HUA			
Course Class	TLEXB3A DEPARTMENT OF INDUSTRIAL ECONOMICS, 3A	Details	 General Course Required One Semester 			
Relevance to SDGs	SDG3 Good health and well-being for people SDG4 Quality education o SDGs SDG5 Gender equality SDG8 Decent work and economic growth					
Departmental Aim of Education						
I. Trainin	g up students to establish the specialized knowledge in industri	al economics.				
II. Trainin	g up students to strengthen the diversity of knowledge in learni	ing.				
III. Trainin	g up students with the ability in researches.					
IV. Trainin	IV. Training up students with the self-cultivation in moral character.					
V. Trainin	g up students with the macroscopic vision in globalization.					
VI. Trainin	g up students with the leadership in industrial development.					
Subject Departmental core competences						
A. With the	A. With the basic knowledge of industrial economics related areas.(ratio:5.00)					
B. With the	B. With the ability of tracking the trend of industrial development.(ratio:50.00)					
C. With the	C. With the ability of continuously learning diversified knowledge in cross field.(ratio:5.00)					
D. With the potential in academic researches.(ratio:5.00)						
E. With the ability of combining economic theories and applications to improve his/her job competence.(ratio:35.00)						
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:7.00)						
2. Information literacy. (ratio:30.00)						
3. A vision for the future. (ratio:30.00)						
4. Moral integrity. (ratio:7.00)						
5. Independent thinking. (ratio:7.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:7.00)						

7. A spirit of teamwork and dedication. (ratio:7.00) 8. A sense of aesthetic appreciation. (ratio:5.00)						
Int	Course	This co phenor estimat various inferen	urse introduces linear re mena, statistical proper tion and statistical infer econometric models a ce methods for each me	egression models for the analysis of econ ties of the models, and various methods o ences. It covers in depth the special featu nd economic data, and appropriate estim odel.	omic of res of nation and	
	The correspondences between the course's instructional objectives and the cognitive, affective,					
Diff don	erentiate the nains of the c	various c course's ir	bjective methods amo nstructional objectives.	ng the cognitive, affective and psychomo	tor	
 I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc. II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc. III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation. 						
No.	Teaching Objectives objective methods				objective methods	
1	1 i. Enhance students' understanding of econometrics concepts Cogn ii. Apply econometric theory to the analysis of economic data. iii. Provide a basic training for empirical researches for students' theses theses			Cognitive		
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment					
No.	Core Compet	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion, Practicum, Imitation	Testing, Study Assignments, Discussion(including classroom and online), Practicum	
	Course Schedule					
Week	Date		Cou	rse Contents	Note	
1	1112/02/13~ 112/02/19Introduction to the Course; Review for regression inference (Using Stata)					

2	112/02/20~ 112/02/26	Review for regression inference (Using Stata)		
3	112/02/27 ~ 112/03/05	Heteroskedasticity and types of estimation bias		
4	112/03/06~ 112/03/12	Heteroskedasticity and types of estimation bias		
5	112/03/13 ~ 112/03/19	Multiple regression models-with binary explanatory variables		
6	112/03/20 ~ 112/03/26	Multiple regression models-with binary explanatory variables		
7	112/03/27 ~ 112/04/02	Multiple regression models-with binary explanatory variables		
8	112/04/03~ 112/04/09	no class		
9	112/04/10~ 112/04/16	Review for the midterm exam		
10	112/04/17 ~ 112/04/23	Midterm Exam Week		
11	112/04/24 ~ 112/04/30	Return the graded exam, and discuss the answers and the weakness.		
12	112/05/01~ 112/05/07	Difference-in-differences		
13	112/05/08 ~ 112/05/14	Panel Data: Random effects model and fixed effects model		
14	112/05/15 ~ 112/05/21	Panel Data: Random effects model and fixed effects model		
15	112/05/22 ~ 112/05/28	Instrumental variables models		
16	112/05/29~ 112/06/04	Instrumental variables models		
17	112/06/05 ~ 112/06/11	Review for the final exam		
18	112/06/12 ~ 112/06/18	Final Exam Week		
Requirement				
Teaching Facility		Computer, Projector, Other (blackboard)		
Textbooks and Teaching Materials		Jeffrey M. Wooldridge, Introductory Econometrics: A Modern Approach, 7th edition		
References		Statistics for Business and Economics by David R. Anderson, Dennis J. Sweeney and Thomas A. Williams (ASW), South-Western College Publishing. 11th edition or any previous edition		

Number of Assignment(s)	(Filled in by assignment instructor only)			
Grading Policy	 ♦ Attendance: 15.0 % ♦ Mark of Usual: 20.0 % ♦ Midterm 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. W Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 			
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