Tamkang University Academic Year 107, 1st Semester Course Syllabus

Course Title	APPLIED STATISTICS	Instructor	DENG WEN-SHUENN	
Course Class	TLWXB2A BACHELOR'S PROGRAM IN GLOBAL FINANCIAL MANAGEMENT (ENGLISH-TAUGHT PROGRAM),	Details	 Selective One Semester 2 Credits 	
	Departmental Aim of Educ	ation		
I. Learnir	ng and instanding international financial theory.			
П. Learn t	o plan the future.			
III. Enhand	te the ability of practical analysis.			
IV. Increas	e the team research ability.			
V. Master	the international financial pulsation.			
VI. Cultiva	te morality and global civilization.			
	Departmental core compet	ences		
A. The stuc	lent to have a basic knowledge of international financial manage	ement theory	and	
B. To have	a good grounding of relevant financial laws.			
C. To unde	rstand the basic moral principles within the international financi	al industry.		
D. To have abilities.	D. To have a global perspective of the subject and a basic command of foreign language			
E. To obtai	n international professional qualifications that will aid their futu	re career.		
F. To obtai	F. To obtain a basic ability to examine domestic and global financial situations.			
The course provides advanced statistical concepts and techniques with application in business and finance with simple introduction to the Statistical software R. Topics include hypothesis testing, goodness of fits test, analysis of variance and Regression analysis.Course IntroductionRegression analysis.		blication		
		tical software	R.	

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

I.Objective Levels (selec	t applicable ones)	:	
(i) Cognitive Domain	: C1-Remembering,	C2-Understanding,	C3-Applying,
	C4-Analyzing,	C5-Evaluating,	C6-Creating
(ii) Psychomotor Domain	Pl-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.)

		Relevance	
No.	Teaching Objectives		Departmental core competences
1	Acquisition of professional knowledge	C3	ADE
2	Learning effective self-planning.	C3	ADE
3	Theoretical application of practical matters.	C3	ADE
4	Interpersonal communication and teamwork.	C3	ADE
5	Analysis of problems and recommendations.	C3	ADE
6	Awareness of Ethics as a global citizen.	C3	ADE

	leaching Objectives, leaching Methods and Assessment			
No.	Teaching Objectives	Teaching Methods	Assessment	
1	Acquisition of professional knowledge	Lecture, Simulation	Written test, Participation	
2	Learning effective self-planning.	Lecture, Simulation, Problem solving	Written test, Participation	
3	Theoretical application of practical matters.	Lecture, Simulation, Problem solving	Written test, Participation	
4	Interpersonal communication and teamwork.	Lecture, Simulation, Problem solving	Written test, Participation	
5	Analysis of problems and recommendations.	Lecture, Simulation, Problem solving	Written test, Participation	

6	Awareness of Ethics as a global	Lecture, Simulation, Problem	Written test, Participation
	citizen.	solving	

	Т	his course has been designed to	cultivate the following essential qualities	in TKU students
Essential Qualities of TKU Students		Qualities of TKU Students	Description	
\diamondsuit A global perspective		ective	Helping students develop a broader perspective from which to understand international affairs and global development.	
\diamond ı	information lite	eracy	Becoming adept at using information technology and learning the proper way to process information.	
\diamond	A vision for the	e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.	
¢ı	Moral integrity	/	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
\Diamond ı	ndependent t	hinking	Encouraging students to keenly observe and source of their problems, and to think logica	d seek out the ally and critically.
\diamond	A cheerful attit	tude and healthy lifestyle	Raising an awareness of the fine balance be and soul and the environment; helping stud meaningful life.	tween one's body lents live a
\diamond	A spirit of tean	nwork and dedication	Improving one's ability to communicate and integrate resources, collaborate with others problems.	d cooperate so as to , and solve
\diamond	A sense of aest	thetic 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	Sub	ject/Topics	Note
1	107/09/10~ 107/09/16	Review of Elementary Probabili	ity and Statistics	
2	107/09/17 ~ 107/09/23	Review of Elementary Probabili	ity and Statistics	
3	107/09/24 ~ 107/09/30	Introduction to the Statistical S	oftware R	
4	107/10/01 ~ 107/10/07	Introduction to the Statistical Software R		
5	107/10/08 ~ 107/10/14	^{3~} 4 Multiple Linear Regression		
6	107/10/15~ 107/10/21	Multiple Linear Regression		
7	107/10/22 ~ 107/10/28	Multiple Linear Regression		
8	107/10/29~ 107/11/04	Nonparametric Statistics		
9	107/11/05~ 107/11/11	Nonparametric Statistics		
10	107/11/12~ 107/11/18	/11/12~ Midterm Exam Week		
11	1 107/11/19~ 107/11/25 Analysis of Variance			

12 107/11/26~ 107/12/02		Analysis of Variance			
13	107/12/03~ 107/12/09	Analysis of Variance			
14	107/12/10~ 107/12/16	Time Series Analysis and Forecasting			
15	107/12/17~ 107/12/23	Time Series Analysis and Forecasting			
16	107/12/24~ 107/12/30	Statistics Applications of R language			
17	107/12/31~ 108/01/06	Statistics Applications of R language			
18	108/01/07~ 108/01/13	Final Exam Week			
Requirement Students are re- Absences from		Students are required to attend the regular classes and both the mid-term and final exams. Absences from regular classes will result in a deduction in final scores.			
Teaching Facility Computer		Computer			
Textbook(s)		Managerial Statistics, Gerald Keller, Cengage Learning滄海書局代理			
Reference(s)		Applied Statistics with R, David Dalpiaz. Free Material available online at http://daviddalpiaz.github.io/appliedstats/applied_statistics.pdf			
Number of Assignment(s)		4 (Filled in by assignment instructor only)			
Grading Policy		 Attendance: 10.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 35.0 % Final Exam: 35.0 % Other 〈 〉: % 			
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . What the set of th			
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