Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	APPLIED STATISTICAL ANALYSIS	Instructor	MENG-IA CHUNG
Course Class	TLGBM1A MASTER'S PROGRAM IN BUSINESS AND MANAGEMENT, DEPARTMENT OF MANAGEMENT SCIENCES (ENGLISH-TAUGHT	Details	◆ General Course◆ Selective◆ One Semester
Relevance to SDGs	PROGRAM), 1A SDG4 Quality education		

Departmental Aim of Education

- I . Develop a business and management perspective for students.
- II. Train the professionals in the integrated fields of business and management.
- III. Cultivate the talents with both theory and practices in business and management.

Subject Departmental core competences

- A. Provide the basic knowledge of both theory and practices.(ratio:20.00)
- B. Enhance the practical training for the current trends.(ratio:30.00)
- C. Cultivate the ethics in business and management.(ratio:20.00)
- D. Obtain the ability of analyzing industrial and business problems.(ratio:30.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:30.00)
- 3. A vision for the future. (ratio:10.00)
- 4. Moral integrity. (ratio:5.00)
- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 7. A spirit of teamwork and dedication. (ratio:5.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

In	Course troduction	quanti regress structu	tative methods. Topics c sion, design of experime	uip students with practical knowledge of of of the course include linear regression, log ents, scale development, factor analysis ar This course will mainly use SPSS and AMC ne used when necessary.	gistic nd			
	The	correspo	ondences between the c	ourse's instructional objectives and the	cognitive, affective,			
Dif	forontiato tha	. various d		d psychomotor objectives.	tor			
	Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.							
,	I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of							
-	_	-	•	ocedures, outcomes, etc.				
II.A	-			kinds of knowledge in the course's appea	ıl,			
III.			ude, conviction, values, ϵ is upon the study of the	course's physical activity and technical				
	ma	nipulatio	n.					
No.	Teaching Objectives				objective methods			
1	This course 6	course expects students to learn general linear models, Cognitive						
	generalized linear models and structural equation modeling.							
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment							
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	ABCD		12345678	Lecture	Study Assignments			
				Course Schedule	-			
Weel	Date		Cour	rse Contents	Note			
1	112/02/13 ~ 112/02/19	Introdu	Introduction					
2	112/02/20 ~ 112/02/26	Review	Review of Probability and Statistical Inferences I					
3	112/02/27 ~ 112/03/05	Review of Probability and Statistical Inferences II						
4	112/03/06 ~ 112/03/12	General Linear Models I						

112/03/12

112/03/19

112/03/26

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General Linear Models II

General Linear Models III

7	112/03/27 ~ 112/04/02	General Linear Models IV			
8	112/04/03 ~ 112/04/09	Review I			
9	112/04/10 ~ 112/04/16	Midterm			
10	112/04/17 ~ 112/04/23	Measurement Models I			
11	112/04/24 ~ 112/04/30	Measurement Models II			
12	112/05/01 ~ 112/05/07	Structural Models I			
13	112/05/08 ~ 112/05/14	Structural Models II			
14	112/05/15 ~ 112/05/21	Generalized Linear Models I			
15	112/05/22 ~ 112/05/28	Generalized Linear Models II			
16	112/05/29 ~ 112/06/04	TBD			
17	112/06/05 ~ 112/06/11	Review II			
18	112/06/12 ~ 112/06/18	Final exam			
Requirement					
Tea	ching Facility	Computer, Projector			
Textbooks and Teaching Materials		Lecture notes			
References		Principles and Practice of Structural Equation Modeling 4th edition by Rex Kline			
Number of Assignment(s)		(Filled in by assignment instructor only)			
Grading Policy		 Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other ⟨2 assignments⟩: 100.0 % 			
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 . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.			

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