Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	Course Title APPLIED STATISTICAL ANALYSIS		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 3 Credits 			
Relevance to SDGs	PROGRAM), 1A SDG4 Quality education Vance					
Departmental Aim of Education						
I. Develop a business and management perspective for students.						
II. Train th	II. Train the professionals in the integrated fields of business and management.					
Ⅲ. Cultiva	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	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 globa	1. A global perspective. (ratio:10.00)					
2. Informa	tion 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	8. A sense of aesthetic appreciation. (ratio:5.00)					

In	Course troduction	The air quantit regress structu softwa	n of this course is to equ tative methods. Topics c sion, design of experime ral equation modeling. re. R software will also b	ip students with practical knowledge of o of the course include linear models, logist nts, scale development, factor analysis ar This course will mainly use SPSS and AMC e used when necessary.	common ic id DS		
 The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives. 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 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					
1	The aim of the of common of the of common of the other sectors of the ot	aim of this course is to equip students with practical knowledge Cognitive ommon quantitative methods.					
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment		
1	ABCD		12345678	Lecture	Report(including oral and written)		
				Course Schedule			
Wee	k Date		Cour	rse Contents	Note		
1	114/02/17 ~ 114/02/23	Introduction					
2	114/02/24 ~ 114/03/02	Review of Probability and Statistical Inferences I					
3	114/03/03 ~ 114/03/09	Review	Review of Probability and Statistical Inferences II				
4	114/03/10 ~ 114/03/16	General Linear Models I					
5	114/03/17 ~ 114/03/23	General Linear Models II					
6	114/03/24~ 114/03/30	General Linear Models III					

7	114/03/31~ 114/04/06	General Linear Models IV		
8	114/04/07~ 114/04/13	Review I		
9	114/04/14~ 114/04/20	Midterm		
10	114/04/21~ 114/04/27	Measurement Models I		
11	114/04/28~ 114/05/04	Measurement Models II		
12	114/05/05 ~ 114/05/11	Structural Models I		
13	114/05/12 ~ 114/05/18	Structural Models II		
14	114/05/19~ 114/05/25	Generalized Linear Models I		
15	114/05/26~ 114/06/01	Generalized Linear Models II		
16	114/06/02~ 114/06/08	Review II		
17	114/06/09~ 114/06/15	Final exam		
18	114/06/16~ 114/06/22	tbd		
Key capabilities		self-directed learning Information Technology		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching		Project implementation course		
Course Content		Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking		
Requirement				
Textbooks and Teaching Materials		Self-made teaching materials:Presentations Name of teaching materials: slides		

References	Principles and Practice of Structural Equation Modeling 4th edition by Rex Kline				
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 <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the Note 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.				
TLGBM1M0653 0A	Page:4/4 2025/1/5 13:10:58				