Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	Course Title CATEGORICAL DATA ANALYSIS		TSENG, YAO-TING		
Course Class	e Class TLSXB3C DEPARTMENT OF STATISTICS, 3C Details • Blende • Requir • One Se • 3 Cred				
Relevance to SDGs	SDG4 Quality education SDG8 Decent work and economic growth SDGs SDG9 Industry, Innovation, and Infrastructure				
Departmental Aim of Education					
I.Cultivate students with knowledge of basic statistical theory. 耳.Cultivate students with data analysis skills. Ⅲ.Cultivate students to become statistical professionals with management capabilities.					
Subject Departmental core competences					
A. Knowled	ge of basic statistical theory.(ratio:40.00)				
B. Logical r	easoning in mathematics.(ratio:5.00)				
C. Data ana	C. Data analysis skills.(ratio:50.00)				
D. Application of profession knowledge.(ratio:5.00)					
Subject Schoolwide essential virtues					
1. A global perspective. (ratio:5.00)					
2. Information literacy. (ratio:20.00)					
3. A vision for the future. (ratio:5.00)					
4. Moral integrity. (ratio:10.00)					
5. Independent thinking. (ratio:30.00)					
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)					
7. A spirit of teamwork and dedication. (ratio:20.00)					
8. A sense of aesthetic appreciation. (ratio:5.00)					

Int	Course	This se logistic	mester we will introduce	e contingency tables, generalized linear mory logit models, and loglinear models.	nodel,	
	The c	correspo	ndences between the c an	course's instructional objectives and the dependent objectives.	cognitive, affective,	
Differentiate the various objective methods among the cognitive, affective and psychomotor						
I (Cognitive · Em	nhasis u	inon the study of variou	s kinds of knowledge in the cognition of		
1. (the offerstive . Emp	course's	veracity, conception, pr	ocedures, outcomes, etc.		
II.A	ffective : Emp mor	nasis up als, attiti	on the study of various ude, conviction, values, e	kinds of knowledge in the course's appea etc.	Ι,	
III.F	sychomotor: man	Emphas iipulatio	is upon the study of the n.	course's physical activity and technical		
No.		Teaching Objectives objective methods				
1	Understand how to analysis contingency tables. Cognitive				Cognitive	
2	Understand logistic regression model concept and application. Cognitive				Cognitive	
3	Understand loglinear model concept and application. Cognitive				Cognitive	
 	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment					
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment	
1	ABCD		12345678	Lecture, Publication	Testing, Study Assignments	
2	ABCD		12345678	Lecture, Publication	Testing, Study Assignments	
3	ABCD		12345678	Lecture, Publication	Testing, Study Assignments	
Course Schedule Note for Blended Course : When utilizing weekly digital instruction, please fill in "Online Asynchronous Instruction".						
Week	Date	Course Contents Note			Note	
1	113/02/19~ 113/02/25	chapter 1: Introduction				
2	113/02/26~ 113/03/03	chapter 1: Introduction / 228 holiday				

3	113/03/04~ 113/03/10	chapter 2: Analyzing Contingency Tables	
4	113/03/11~ 113/03/17	chapter 2: Analyzing Contingency Tables	
5	113/03/18~ 113/03/24	chapter 3: Generalized Linear Models	Online Asynchronous Instruction
6	113/03/25 ~ 113/03/31	chapter 3: Generalized Linear Models	Online Asynchronous Instruction
7	113/04/01~ 113/04/07	chapter 4: Logistic Regression	
8	113/04/08~ 113/04/14	chapter 4: Logistic Regression	
9	113/04/15~ 113/04/21	Midterm Exam Week	
10	113/04/22 ~ 113/04/28	chpater 5: Building and Applying Logistic Regression Models	
11	113/04/29 ~ 113/05/05	chapter 5: Building and Applying Logistic Regression Models	
12	113/05/06~ 113/05/12	chapter 6: Multicategory Logit Models	
13	113/05/13~ 113/05/19	chapter 6: Multicategory Logit Models	Online Asynchronous Instruction
14	113/05/20~ 113/05/26	chapter 6: Multicategory Logit Models	Online Asynchronous Instruction
15	113/05/27 ~ 113/06/02	chapter 7: Loglinear Models for Contingency Tables and Counts	
16	113/06/03 ~ 113/06/09	chapter 7: Loglinear Models for Contingency Tables and Counts	
17	113/06/10~ 113/06/16	610 Dragon Boat Festival / Final Exam Week (Date:113/6/11-113/6/17)	
18	113/06/17~ 113/06/23	Flex week, learning activities should be arranged.	
Key capabilities			
Interdisciplinary			
Distinctive teaching			

Course Content	Logical Thinking AI application	
Requirement		
Textbooks and Teaching Materials	Using teaching materials from other writers:Textbooks Name of teaching materials: Ing Materials Alan Agresti: An Introduction to Categorical Data Analysis (3rd Edition)	
References		
Grading Policy	 ◆ Attendance: % ◆ Mark of Usual: 15.0 % ◆ Midterm Exam: 35.0 % ◆ Final Exam: 35.0 % ◆ Other ⟨report⟩: 15.0 % 	
Note	 This syllabus may be uploaded at the website of the Course Syllabus Management System at <u>https://info.ais.tku.edu.tw/csp</u> or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs <u>http://www.acad.tku.edu.tw/CS/main.php</u> According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject." According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities." If there are any temporary course changes (including time changes and classroom changes of distance learning courses), please make out an application according to regulations to the Office of Academic Affairs. Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 	

TLSXB3M0481 0C

Page:4/4 2024/4/11 8:16:25