Tamkang University Academic Year 103, 1st Semester Course Syllabus

Course Title	STATISTICS	Instructor	LEI YING-HUI	
Course Class	TQIAB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY, 2A	Details	◆ Selective◆ One Semester◆ 3 Credits	
	Departmental Aim of Educ	ation		
Cultivate pro	Cultivate professional talents in developing and applying information system in various fields.			
	Departmental core compet	e n c e s		
A. Capabili	ty of computer program coding, process planning, and problem	solving		
B. Capabili	ty of applying basic mathematics and information technology re	elated mathem	natics	
C. Capabili system	C. Capability of applying knowledge of internet structure and protocol in communication			
D. Capabili	ty of developing information system			
E. Capabili	ty of integrating information system			
Course Introduction	This course is aimed to teach fundamental theories of statisti of them.	cs and the app	plication	

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

P6-Origination

I.Objective Levels (select applicable ones):

(i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying, C4-Analyzing, C5-Evaluating, C6-Creating

(ii) Psychomotor Domain: P1-Imitation, P2-Mechanism, P3-Independent Operation,

P4-Linked Operation, P5-Automation,

(iii) Affective Domain : A1-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.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	1. To make students learn the fundamental theories in both statistics and probability, and to make them comprehend the interaction between both fields. 2. To make students motivated effectively by seeking statistics at work in real problems, cases and term projects.	C3	В	
2	1. To make students learn the fundamental theories in both statistics and probability, and to make them comprehend the interaction between both fields. 2. To make students motivated effectively by seeking statistics at work in real problems, cases and term projects.	C3	В	
3	1. To make students learn the fundamental theories in both statistics and probability, and to make them comprehend the interaction between both fields. 2. To make students motivated effectively by seeking statistics at work in real problems, cases and term projects.	C3	В	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment

1	1. To make students learn the	Lactura	1
1		Lecture	
	fundamental theories in both		
	statistics and probability, and to		
	make them comprehend the		
	interaction between both fields. 2.		
	To make students motivated		
	effectively by seeking statistics at		
	work in real problems, cases and		
	term projects.		
2	To make students learn the	Lecture, Discussion	
	fundamental theories in both	Lecture, Discussion	
	statistics and probability, and to		
	make them comprehend the		
	interaction between both fields. 2.		
	To make students motivated		
	effectively by seeking		
	statistics at work in real problems,		
	cases and term projects.		
3	1. To make students learn the	Lecture, Discussion	
	fundamental theories in both	2001.01, 2100.0001	
	statistics and probability, and to		
	make them comprehend the		
	interaction between both fields. 2.		
	To make students motivated		
	effectively by seeking		
	statistics at work in real problems,		
	cases and term projects.		

Essential Qualities of TKU Students		Qualities of TKU Students	Description		
◆ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information the proper way to process information.		
*	A vision for th	e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
◆ Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
♦	Independent t	thinking	Encouraging students to keenly observ source of their problems, and to think I		
♦	A cheerful atti	itude and healthy lifestyle		Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
◆ A spirit of teamwork and dedication		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
◆ A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to s aesthetic beauty, to express themselves the creative process.		
			Course Schedule		
Veek	Date		Subject/Topics	Note	
1	103/09/15 ~ 103/09/21	Introduction/Probability			
2	103/09/22 ~ 103/09/28	Introduction/Probability			
3	103/09/29 ~ 103/10/05	Random variables and prob	pability distribution		
4	103/10/06 ~ 103/10/12	Random variables and prob	pability distribution		
5	103/10/13 ~ 103/10/19	Mathematical expectation			
6	103/10/20 ~ 103/10/26	Mathematical expectation			
7	103/10/27 ~ 103/11/02	Some discrete probability distributions			
8	103/11/03 ~ 103/11/09	Some discrete probability distributions			
9	103/11/10 ~ 103/11/16	Some discrete probability distributions			
1.0	103/11/17 ~ 103/11/23	Midterm Exam Week			
10	103/11/24 ~	Fundamental sampling dist	ributions and data		
11	103/11/30	. 5			

13	103/12/08 ~ 103/12/14	Fundamental sampling distributions and data
14	103/12/15 ~ 103/12/21	Fundamental sampling distributions and data
15	103/12/22 ~ 103/12/28	Sample test of hypotheses
16	103/12/29 ~ 104/01/04	Sample test of hypotheses
17	104/01/05 ~ 104/01/11	Sample test of hypotheses
18	104/01/12 ~ 104/01/18	Final Exam Week
Requirement		
Teaching Facility		(None)
Textbook(s)		
Reference(s)		
Number of Assignment(s)		(Filled in by assignment instructor only)
Grading Policy		◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other ⟨⟩: 100.0 %
Note home page of TKU Office of Academic Affairs at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Up 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.

TQIAB2M0517 0A Page:5/5 2014/12/20 0:29:05