Tamkang University Academic Year 104, 1st Semester Course Syllabus

Course Title	STATISTICS	Instructor	LEI YING-HUI	
Course Class	TQICB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	SelectiveOne Semester3 Credits	
	PROGRAM), 2ADepartmental Aim of Educ	ation		
Cultivate pr	ofessional talents in developing and applying information syster	m in various fi	elds.	
	Departmental core competences			
A. Capabili	ty of computer program coding, process planning, and problem	n solving		
B. Capabili	ty of applying basic mathematics and information technology re	elated mathen	natics	
C. Capabili system	C. Capability of applying knowledge of internet structure and protocol in communication system			
D. Capabili	ty of developing information system			
E. Capabili	ty of integrating information system			
Course Introduction			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.			Objective Levels	Departmental core competences
1	1. To make students learn the fundamental th	eories in both statistics	C3	В
	and probability, and to make them comprehe	nd the interaction		
	between both fields. 2. To make students motivated effectively by			
	seeking statistics at work in real problems, cas	ses and term projects.		
2	To make students learn the fundamental theories in both statistics			В
	and probability, and to make them comprehe	nd the interaction		
	between both fields. 2. To make students mot	ivated effectively by		
	seeking			
	statistics at work in real problems, cases and term projects.			
3	1. To make students learn the fundamental th	eories in both statistics	C3	В
	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.			
4	To teach fundamental theories of statistics and the application of			В
	them.			_
5	To teach fundamental theories of statistics and the application of			В
	them.			_
	Teaching Objectives, Teaching Methods and Assessment			
No.	Teaching Objectives	Teaching Methods	,	Assessment

1	1. To make students learn the	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	1. To make students learn the	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.		
3	1. To make students learn the	Lecture, Discussion	
	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.		
4	To teach fundamental theories of	Lecture	Written test
	statistics and the application of		
	them.		
5	To teach fundamental theories of	Lecture	
	statistics and the application of		
	them.		

	Essential (Qualities of TKU Students	Descr	iption
◆ 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 technology and learning the proper way to process information.	
◆ A vision for the future		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 ♠ Independent thinking ♠ A cheerful attitude and healthy lifestyle ♠ A spirit of teamwork and dedication ♠ A sense of aesthetic appreciation 		У	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems. Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically. Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.	
		thinking		
		itude and healthy lifestyle		
		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.	
		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	104/09/14 ~ 104/09/20	Introduction/Probability		
2	104/09/21 ~ 104/09/27	Introduction/Probability		
3	104/09/28 ~ 104/10/04	Random variables and prob	pability distribution	
4	104/10/05 ~ 104/10/11	Random variables and prob	pability distribution	
5	104/10/12 ~ 104/10/18	Mathematical expectation		
6	104/10/19 ~ 104/10/25	Mathematical expectation		
7	104/10/26 ~ 104/11/01	Some discrete probability distributions		
8	104/11/02 ~ 104/11/08	Some discrete probability distributions		
9	104/11/09 ~ 104/11/15	Some discrete probability distributions		
10	104/11/16 ~ 104/11/22	Midterm Exam Week		
	104/11/23 ~	Fundamental sampling dist	ributions and data	
11	104/11/29			

13	104/12/07 ~ 104/12/13	Fundamental sampling distributions and data
14	104/12/14 ~ 104/12/20	Fundamental sampling distributions and data
15	104/12/21 ~ 104/12/27	Sample test of hypotheses
16	104/12/28 ~ 105/01/03	Sample test of hypotheses
17	105/01/04 ~ 105/01/10	Sample test of hypotheses
18	105/01/11 ~ 105/01/17	Final Exam Week
Re	quirement	
Tea	Teaching Facility Other ()	
Textbook(s)		
Re	eference(s)	
Number of Assignment(s)		(Filled in by assignment instructor only)
	Grading Policy	◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other ⟨⟩: 100.0 %
	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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