Tamkang University Academic Year 105, 2nd Semester Course Syllabus

Course Title	DATABASE SYSTEMS	Instructor	CHEN, DUEN-KAI
Course Class	TQIDB2A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION	Details	RequiredOne Semester3 Credits
	AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), ^{2A} Departmental Aim of Educ	ation	
Cultivate pro	ofessional talents in developing and applying information system	m in various fi	elds.
	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	ty of applying knowledge of internet structure and protocol in c	ommunicatior	١
D. Capabili	ty of developing information system		
E. Capabili	ty of integrating information system		
Course Introduction			fthis

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.)

			Relevance	
No	Teaching Objectives	Objective Levels	Departmental core competences	
1	Understand 1. relational database 2. user's database requirements	C3	E	
	and translate those requirements into a valid database design.			

Teaching Objectives, Teaching Methods and Assessment

No	Teaching Objectives	Teaching Methods	Assessment
1	Understand 1. relational database 2. user's database requirements and translate those requirements into a valid database design.	Lecture, Practicum	Written test, Practicum, Participation

	Essential	Qualities of TKU Students	Descript	ion
		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.	
		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.	
•	Independent :	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.	
A cheerful attitude and healthy lifestyle		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 sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.	
			Course Schedule	
Week	Date	S	Subject/Topics	Note
1	106/02/13 ~ 106/02/19	Course overview and database fundamentals		
2	106/02/20 ~ 106/02/26	Database analysis		
3	106/02/27 ~ 106/03/05	Database analysis & E-R mo	del	
4	106/03/06 ~ 106/03/12	Database analysis & E-R mo	del	
5	106/03/13 ~ 106/03/19	Database analysis & E-R mo	del	
6	106/03/20 ~ 106/03/26	Advanced database analysis		
7	106/03/27 ~ 106/04/02	Advanced database analysis		
8	106/04/03 ~ 106/04/09	Relational database design		
9	106/04/10 ~ 106/04/16	Relational database design		
10	106/04/17 ~ 106/04/23	Midterm Exam Week		
	106/04/24 ~	Physical database design		
11	106/04/30			

13	106/05/08 ~ 106/05/14	Structured Query Language		
14	106/05/15 ~ 106/05/21	Structured Query Language		
15	106/05/22 ~ 106/05/28	Structured Query Language		
16 106/05/29 ~ 106/06/04		Database applications		
17	106/06/05 ~ 106/06/11	Course Review, Project oral presentation & demo		
18	106/06/12 ~ 106/06/18	Final Exam Week		
Requirement				
Tea	eaching Facility Computer, Projector			
Textbook(s)		Modern Database Management, 11/E , by Jeffrey A. Hoffer, Ramesh Venkataraman, Heikki Topi, Pearson, 2013		
Reference(s)		Philip J. Pratt, Concepts of Database Management, Sixth edition, Thomson Course Technology		
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: %		
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.		

TQIDB2E0646 0A Page:4/4 2017/2/16 10:12:05