Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title DATABASE		Instructor	CHEN, DUEN-KAI		
Course Class	TEIDB2A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLI <u>S</u> H-TAUGHT PROGRAM), 2A	Details	 General Course Required One Semester 		
Relevance to SDGs	elevance SDG9 Industry, Innovation, and Infrastructure				
	Departmental Aim of Educ	ation			
I. Compr	ehend professional knowledge.				
II. Acquire	II. Acquire mastery of Practical Skills.				
III. Establis	sh creative achievement.				
Subject Departmental core competences					
A. Program	iming and application ability.(ratio:15.00)				
B. Mathem	atical reasoning ability.(ratio:15.00)				
C. Impleme	enting computer systems ability.(ratio:40.00)				
D. Computer networking application skills.(ratio:15.00)					
E. Professional skills for information technology (IT) industry.(ratio:15.00)					
	Subject Schoolwide essential virtues				
1. A globa	perspective. (ratio:10.00)				
2. Informa	tion literacy. (ratio:30.00)				
3. A vision for the future. (ratio:10.00)					
4. Moral integrity. (ratio:20.00)					
5. Independent thinking. (ratio:15.00)					
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)					
7. A spirit of teamwork and dedication. (ratio:5.00)					
8. A sense of aesthetic appreciation. (ratio:5.00)					

Iı	Course ntroduction	Studer model	nts will learn the fundam	ental concepts of database systems. Rela ethod will be discussed throughout the c	tional data ourse.	
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.						
І. П. Ш	Cognitive : Er the Affective : Em mo .Psychomotor ma	mphasis u course's phasis up trals, attitu r: Emphas nipulatio	pon the study of various veracity, conception, pro on the study of various l ude, conviction, values, e is upon the study of the n.	s kinds of knowledge in the cognition of ocedures, outcomes, etc. kinds of knowledge in the course's appea etc. course's physical activity and technical	Ι,	
No.			Teaching Ob	jectives	objective methods	
1	How to use	relational model to describe a collection of data Cognitive				
2	How to use s	SQL to manipulate the data in the database Cognitive				
3	How to design given applic	sign the proper relational data model according to the Psychomotor				
4	The role of a	a data base in a modern information system Cognitive				
5	How to conr	to connect and operate a database by programming APIs Psychomotor				
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Practicum	Testing, Study Assignments, Discussion(including classroom and online)	
2	ABCDE		12345678	Lecture, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)	

3	ABCDE		12345678	Lecture, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)	
4	ABCDE		12345678	Lecture	Testing, Study Assignments	
5	ABCDE		12345678	Lecture	Testing, Study Assignments	
	Course Schedule					
Wee	Date Course Contents			Note		
1	112/02/13 ~ 112/02/19	Course	Course overview			
2	112/02/20 ~ 112/02/26	Prepar Fundai	Preparation of a database environment and Database Fundamentals (1)			
3	112/02/27 ~ 112/03/05	Databa	Database Fundamentals (2)			
4	112/03/06~ 112/03/12	Basic D	Basic Database Analysis (1)			
5	112/03/13~ 112/03/19	Basic Database Analysis (2)				
6	112/03/20~ 112/03/26	Advanced Database Analysis (1)				
7	112/03/27 ~ 112/04/02	Advanced Database Analysis (2)				
8	112/04/03~ 112/04/09	Teaching administration observation period & National holidays				
9	112/04/10~ 112/04/16	Relatio	Relational Database Design (1)			
10	112/04/17 ~ 112/04/23	Midter	Midterm Exam Week			
11	112/04/24 ~ 112/04/30	Relatio	Relational Database Design (2)			
12	112/05/01 ~ 112/05/07	Relational Database Design (3) and Physical Database Design				
13	112/05/08~ 112/05/14	Basic S	Basic SQL (1)			
14	112/05/15~ 112/05/21	Basic SQL (2)				
15	112/05/22 ~ 112/05/28	Basic S	Basic SQL (3)			
16	112/05/29~ 112/06/04	Advanced SQL (1)				
17	112/06/05~ 112/06/11	Advanced SQL (2)				
18	112/06/12~ 112/06/18	Final Exam Week				

Requirement	Late submission of assignment is not allowed. No "make-up" exams or assignments, students will be evaluated based on midterm/final exam and assignments only.		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Jeffery A. Hoffer et al., Modern Database Management, 13th ed., Pearson Education Limited.		
References			
Number of Assignment(s)	8 (Filled in by assignment instructor only)		
Grading Policy	 ♦ Attendance: % ♦ Mark of Usual: 30.0 % ♦ Midterm Exam: 35.0 % ♦ Other < >: % 		
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 . % Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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