Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	DATABASE	Instructor	CHEN, DUEN-KAI
Course Class	TEIDB2A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 2A	Details	General CourseRequiredOne Semester
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I. Comprehend professional knowledge.
- II. Acquire mastery of Practical Skills.
- Ⅲ. Establish creative achievement.

Subject Departmental core competences

- A. Programming and application ability.(ratio:15.00)
- B. Mathematical reasoning ability.(ratio:15.00)
- C. Implementing 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 global perspective. (ratio:10.00)
- 2. Information 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)

Ir	Course	models		ental concepts of database systems. Rela		
	The	correspo	ndences between the c	ourse's instructional objectives and the	cognitive, affective,	
	and psychomotor objectives. Differentiate the various objective methods among the cognitive, affective and psychomotor					
			nstructional objectives.			
I. Cognitive: Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc. II.Affective: Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc. III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.						
No.			Teaching Ob	jectives	objective methods	
1	How to use	relational model to describe a collection of data Cognitive			Cognitive	
2	How to use SQL to manipulate the data in the database			Cognitive		
3		to design the proper relational data model according to the Psychomotor n application				
4	The role of a	le of a data base in a modern information system Cognitive				
5	How to con	How to connect and operate a database by programming APIs Psychomotor			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, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online)	
2	ABCDE		12345678	Lecture, Discussion, Experience	Testing, Study Assignments, Discussion(including classroom and online)	

5 ABO	CDE CDE	12345678 12345678	Lecture, Discussion, Practicum Lecture, Discussion, Experience	Testing, Study Assignments, Discussion(including classroom and online) Testing, Study	
Week		12345678	Lecture, Discussion, Experience	Testing, Study	
	Date			Assignments, Discussion(including classroom and online)	
	Date		Course Schedule		
440			Course Contents	Note	
1	3/02/19 ~ 3/02/25	Course overview			
2	3/03/03	Preparation of a database environment and Database Fundamentals (1)			
3	3/03/04 ~ 3/03/10	Database Fundamentals (2)			
4	3/03/11 ~ 3/03/17	Basic Database Analysis (1)			
5	3/03/18 ~ 3/03/24	Basic Database Analysis (2)			
6	3/03/25 ~ 3/03/31	Advanced Database Analysis (1)			
7	3/04/07	Teaching administration observation period & National holidays			
8	3/04/08 ~ 3/04/14	Advanced Database Analysis (2)			
9	3/04/15 ~ 3/04/21	Midterm Exam Week			
10	3/04/22 ~ 3/04/28	Relational Database Design (1)			
11	3/04/29 ~ 3/05/05	Relational Database Design (2)			
12	3/05/12	Relational Database Design (3) and Physical Database Design			
13	3/05/13 ~ 3/05/19	Basic SQL (1)			
14	3/05/20 ~ 3/05/26	Basic SQL (2)			
15	3/05/27 ~ 3/06/02	Basic SQL (3)			
16	3/06/03 ~ 3/06/09	Advanced SQL (1)			
17	3/06/10 ~ 3/06/16	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 self-directed learning International mobility Information Technology Problem solving		International mobility Information Technology	
Interdisciplinary			
Distinctive teaching			
Cou	Computer programming or Computer language (students have hands-on experience in related projects) urse Content		nce in
Re	quirement	Late submission of assignments is not allowed. No "make-up" exams or assignments. Students will be evaluated based on midterm/final exams and assignments only.	
	oks and ng Materials	Using teaching materials from other writers:Textbooks, Presentations, Videos	
R	eferences		
<pre>Attendance:</pre>		n Exam: 35.0 %	
This syllabus may be uploaded at the website of Course Syllabus Management Sys http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/n ** Unauthorized photocopying is illegal. Using original textbooks is advise to improperly photocopy others' publications.		osted on the CS/main.php .	

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