Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	DATABASE SYSTEMS		Instructor	CHEN, DUEN-KAI
Course Class	TEIDB2A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 2A		Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG4 Quality education			

Departmental Aim of Education

Ⅰ. Comprehend professional knowledge.

Ⅱ. Acquire mastery of Practical Skills.

Ⅲ. Establish creative achievement.

Subject Departmental core competences

C. Implementing computer systems ability.(ratio:100.00)

Subject Schoolwide essential virtues

2. Information literacy. (ratio:20.00)

3. A vision for the future. (ratio:40.00)

4. Moral integrity. (ratio:20.00)

5. Independent thinking. (ratio:20.00)

Course Introduction	Students will learn the fundamental concepts of database systems. Relational data model and database design method will be discussed throughout the course.

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.

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 Objectives	objective methods
1	How to use relational model to describe a collection of data	Cognitive
2	How to use SQL to manipulate the data in the database	Cognitive
3	How to design the proper relational data model according to the given application	Psychomotor
4	The role of a data base in a modern information system	Cognitive
5	How 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 Competences	Essential Virtues	Teaching Methods	Assessment
1	C	2345	Lecture, Practicum	Testing, Study Assignments, Discussion(including classroom and online)
2	C	2345	Lecture, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
3	C	2345	Lecture, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
4	C	2345	Lecture	Testing, Study Assignments
5	C	2345	Lecture	Testing, Study Assignments

Course Schedule

Week	Date	Course Contents	Note

1	111/02/21 ~ 111/02/25	Course overview	
2	111/02/28 ~ 111/03/04	Preparation of a database environment and Database Fundamentals (1)	
3	111/03/07 ~ 111/03/11	Database Fundamentals (2)	
4	111/03/14 ~ 111/03/18	Basic Database Analysis (1)	
5	111/03/21 ~ 111/03/25	Basic Database Analysis (2)	
6	111/03/28 ~ 111/04/01	Teaching administration observation period & National holidays	
7	111/04/04 ~ 111/04/08	Advanced Database Analysis	
8	111/04/11 ~ 111/04/15	Relational Database Design (1)	
9	111/04/18 ~ 111/04/22	Relational Database Design (2)	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Relational Database Design (3)	
12	111/05/09 ~ 111/05/13	Physical Database Design	
13	111/05/16 ~ 111/05/20	Basic SQL (1)	
14	111/05/23 ~ 111/05/27	Basic SQL (2)	
15	111/05/30 ~ 111/06/03	Basic SQL (3)	
16	111/06/06 ~ 111/06/10	Advanced SQL (1)	
17	111/06/13 ~ 111/06/17	Advanced SQL (2)	
18	111/06/20 ~ 111/06/24	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 % ◆ Final Exam： 35.0 % ◆ Other〈 〉： %
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.**