Tamkang University Academic Year 111, 2nd Semester Course Syllabus

Course Title	SYSTEM ANALYSIS AND DESIGN	Instructor	LIN HUI
Course Class	TEIDB2A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 2A	Details	◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	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:20.00)

3. A vision for the future. (ratio:10.00)

4. Moral integrity. (ratio:10.00)

5. Independent thinking. (ratio:20.00)

6. A cheerful attitude and healthy lifestyle. (ratio:5.00)

7. A spirit of teamwork and dedication. (ratio:15.00)

8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	Start to learn with fundamental concepts, philosophies, and trends that provide the context of systems analysis and design methods. Then introduce systems analysis and its overall importance in a project. Those are specific systems analysis skills with an emphasis on logical system modeling.

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	Students will be able to summarize concepts covered in the following topics: the Components of Information System, Project Management, Systems Analysis Methods, and Unified Modeling Language(UML).Students will be able to implement a new project of systems analysis and design using the UML.	Psychomotor

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDE	12345678	Lecture, Discussion, Experience	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	112/02/13 ~ 112/02/19	syllbus/Wisdom property rights guidance/Introduction to Systems Analysis and Design	

2	112/02/20 ~ 112/02/26	Introduction to Systems Analysis and Design	
3	112/02/27 ~ 112/03/05	Introduction to Systems Analysis and Design/Analyzing the Business Case	
4	112/03/06 ~ 112/03/12	Analyzing the Business Case	
5	112/03/13 ~ 112/03/19	Analyzing the Business Case	
6	112/03/20 ~ 112/03/26	Managing System Projects	
7	112/03/27 ~ 112/04/02	Managing System Projects	
8	112/04/03 ~ 112/04/09	Requirements Modeling	
9	112/04/10 ~ 112/04/16	Requirements Modeling	
10	112/04/17 ~ 112/04/23	Midterm Exam Week	
11	112/04/24 ~ 112/04/30	Data and Process Modeling/Object Modeling	
12	112/05/01 ~ 112/05/07	Object Modeling	
13	112/05/08 ~ 112/05/14	Object Modeling/Development Strategies	
14	112/05/15 ~ 112/05/21	Development Strategies/Output and User Interface Design	
15	112/05/22 ~ 112/05/28	Output and User Interface Design	
16	112/05/29 ~ 112/06/04	Data Design	
17	112/06/05 ~ 112/06/11	Data Design	
18	112/06/12 ~ 112/06/18	Final Exam Week	

Requirement	Score will include attendance, the ratio may be slightly adjusted!
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	Systems Analysis and Design, Shelly · Rosenblatt
References	Introduction to System Analysis and Design, Whitten·Bentley System Analysis and Design in a changing world, Satzinger

Number of Assignment(s)	20 (Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual：20.0 % ◆ Midterm Exam： 25.0 % ◆ Final Exam： 25.0 % ◆ Other〈project etc.〉：20.0 %
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.**