Tamkang University Academic Year 113, 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 CourseSelectiveOne Semester3 Credits
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 croduction	the cor analysi	ntext of systems analysis s and its overall importa	Il concepts, philosophies, and trends that s and design methods. Then introduce sys ance in a project. Those are specific 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 Ob	jectives	objective methods		
	following to Managemer Language(U	will be able to summarize concepts covered in the topics: the Components of Information System, Project ent, Systems Analysis Methods, and Unified Modeling (UML).Students will be able to implement a new project of nalysis and design using the UML.					
				: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Compe	tences	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		Note		
1	114/02/17 ~ 114/02/23	1 -	/Wisdom property right ems Analysis and Desig	s guidance/Introduction			

2	114/02/24 ~ 114/03/02	Introduction to Systems Analysis and Design			
3	114/03/03 ~ 114/03/09	Introduction to Systems Analysis and Design/Analyzing the Business Case			
4	114/03/10 ~ 114/03/16	Analyzing the Business Case			
5	114/03/17 ~ 114/03/23	Analyzing the Business Case			
6	114/03/24 ~ 114/03/30	Managing System Projects			
7	114/03/31 ~ 114/04/06	Teaching and administrative observation week (教學行 政觀摩週)			
8	114/04/07 ~ 114/04/13	Managing System Projects			
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)			
10	114/04/21 ~ 114/04/27	Requirements Modeling			
11	114/04/28 ~ 114/05/04	Data and Process Modeling/Object Modeling			
12	114/05/05 ~ 114/05/11	Object Modeling			
13	114/05/12 ~ 114/05/18	Object Modeling/Development Strategies			
14	114/05/19 ~ 114/05/25	Development Strategies/Output and User Interface Design			
15	114/05/26 ~ 114/06/01	Output and User Interface Design			
16	114/06/02 ~ 114/06/08 Data Design				
17	114/06/09 ~ 114/06/15	Final Exam/Final Assessment Week (teachers can adjust the week as needed)			
18	114/06/16 ~ 114/06/22	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.			
Key	/ capabilities	Information Technology			
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)			

Distinctive teaching	Special/Problem-Based(PBL) Courses
Course Content	Logical Thinking IT application
Requirement	Score will include attendance, the ratio may be slightly adjusted!
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts, Worksheets Using teaching materials from other writers:Textbooks, Videos
References	Introduction to System Analysis and Design, Whitten-Bentley System Analysis and Design in a changing world, Satzinger
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.

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