Tamkang University Academic Year 114, 1st Semester Course Syllabus

Course Title	INTRODUCTION TO SOFTWARE DEVELOPMENT	Instructor	LIN HUI
Course Class	TEIDB2A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 2A	Details	 General Course Required One Semester 3 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:40.00)
- B. Mathematical reasoning ability.(ratio:10.00)
- C. Implementing computer systems ability.(ratio:20.00)
- D. Computer networking application skills.(ratio:10.00)
- E. Professional skills for information technology (IT) industry.(ratio:20.00)

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:10.00)
- 5. Independent thinking. (ratio:10.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:10.00)

	Course roduction	experie	_	nowledge of information systems and the		
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	objective methods		
	the experien	he fundamental knowledge of information systems and ces of programming, learn how to develop high quality gineering approaches. Cognitive				
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion, Practicum	Testing, Study Assignments, Practicum, Activity Participation	
				Course Schedule		
Week	Date		Course Contents		Note	
1	114/09/15 ~ 114/09/21	Introduction				
2	114/09/22 ~ 114/09/28	Software & Software Engineering				
3	114/09/29 ~ 114/10/05	Process Models				
4	114/10/06 ~ 114/10/12	Agile Development				

5	114/10/13 ~ 114/10/19	Principles that Guide Practice & Understanding Requirements	
6	114/10/20 ~ 114/10/26	Requirement Modeling	
7	114/10/27 ~ 114/11/02	Requirement Modeling	
8	114/11/03 ~ 114/11/09	Design Concepts	
9	114/11/10 ~ 114/11/16	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	114/11/17 ~ 114/11/23	Architectural Design	
11	114/11/24 ~ 114/11/30	Architectural Design	
12	114/12/01~ 114/12/07 Component-Level Design		
13	114/12/08 ~ 114/12/14	User Interface Design	
14	114/12/15 ~ 114/12/21	Pattern-Based Design	
15	114/12/22 ~ 114/12/28	WebApp Design	
16	Final Week of Diverse Assessments		
17	115/01/05 ~ 115/01/11	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	
18	115/01/12 ~ 115/01/18	Flexible Teaching Week for Teachers	
Key	/ capabilities	Information Technology Problem solving	
Inte	erdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Humanist) In addition to teaching content of the teacher's professional field, integrate other suinvite experts and scholars in other fields to share knowledge or teaching	
	Distinctive teaching		
Course Content		Logical Thinking	

Requirement	
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts Using teaching materials from other writers:Textbooks, Videos Name of teaching materials: R. S. Pressman, Software Engineering: A Practitioner's Approach, 7th Ed., International Edition 2010, McGraw-Hill. I. Sommerville, Software Engineering, 9th Ed., International Edition, 2011, Pearson.
References	D. A. Gustafson, Schaum's Outline of Theory and Problems of Software Engineering, McGraw-Hill, 2002. E. Gamma et al., Design Patterns: Elements of Reusable Object-Oriented Software, Addison Wesley Longman, Inc., 1994.
Grading Policy	 ↑ Attendance: 10.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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 . **"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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