Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title INTRODUCTION TO SOFTWARE DEVELOPMENT Inst		Instructor	LIN HUI			
Course Class	TEIDB2A • General Course DEPARTMENT OF COMPUTER SCIENCE AND Details INFORMATION ENGINEERING • One Semester (ENGLISH-TAUGHT PROGRAM), 2A • 3 Credits					
Relevance to SDGs						
	Departmental Aim of Education					
I. Compr	ehend professional knowledge.					
II. Acquire	e mastery of Practical Skills.					
Ⅲ. Establis	sh creative achievement.					
	Subject Departmental core competence	es				
A. Program	ming and application ability.(ratio:40.00)					
B. Mathem	B. Mathematical reasoning ability.(ratio:10.00)					
C. Impleme	C. Implementing computer systems ability.(ratio:20.00)					
D. Compute	D. Computer networking application skills.(ratio:10.00)					
E. Professio	onal skills for information technology (IT) industry.(ratio:20.00)					
	Subject Schoolwide essential virtues					
1. A globa	perspective. (ratio:10.00)					
2. Informa	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 cheer	6. A cheerful attitude and healthy lifestyle. (ratio:10.00)					
7. A spirit o	7. A spirit of teamwork and dedication. (ratio:10.00)					
8. A sense	8. A sense of aesthetic appreciation. (ratio:10.00)					

Ir	Course troduction	experie	-	nowledge of information systems and the earn how to develop high quality softwa			
	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 metho			objective methods		
1	the experien	Combining the fundamental knowledge of information systems and Cognitive the experiences of programming, learn how to develop high quality software engineering approaches.					
	The	correspond	lences of teaching objectives	core competences, essential virtues, teaching me	thods, 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			
Wee	k Date		Cour	se Contents	Note		
1	113/09/09~ 113/09/15	Introduction					
2	113/09/16~ 113/09/22	Software & Software Engineering					
3	113/09/23 ~ 113/09/29	Process	Process Models				
4	113/09/30 ~ 113/10/06	Agile Development					

5	113/10/07~ 113/10/13	Principles that Guide Practice & Understanding Requirements		
6	113/10/14~ 113/10/20	Requirement Modeling		
7	113/10/21~ 113/10/27	Requirement Modeling		
8	113/10/28~ 113/11/03	Design Concepts		
9	113/11/04~ 113/11/10	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)		
10	113/11/11~ 113/11/17	Architectural Design		
11	113/11/18~ 113/11/24	Architectural Design		
12	113/11/25~ 113/12/01	Component-Level Design		
13	113/12/02 ~ 113/12/08	User Interface Design		
14	113/12/09~ 113/12/15	Pattern-Based Design		
15	113/12/16~ 113/12/22	WebApp Design		
16	113/12/23~ 113/12/29	Quality Concepts		
17	113/12/30 ~ 114/01/05	Final Exam/Final Assessment Week (teachers can adjust the week as needed)		
18	114/01/06~ 114/01/12	Flexible Teaching Week for Teachers (In principle, no in-person classes; teachers may arrange teaching activities or final assessments, etc.)		
Key capabilities		Information Technology Problem solving		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist) In addition to teaching content of the teacher's professional field, integrate other subjects or invite 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 % ♦ Mark of Usual: 10.0 % ♦ Midterm Exam: 30.0 % ♦ Other ⟨Quiz⟩: 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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