Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	SOFTWARE ENGINEERING	Instructor	FENG-CHENG CHANG				
Course Class	TEIDB4A se Class DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND		 General Course Required One Semester 				
Relevance to SDGs							
Departmental Aim of Education							
I. Compr	I. Comprehend professional knowledge.						
II. Acquire	e mastery of Practical Skills.						
III. Establi	sh creative achievement.						
Subject Departmental core competences							
A. Program	A. Programming and application ability.(ratio:20.00)						
C. Impleme	enting computer systems ability.(ratio:70.00)						
E. Professio	onal skills for information technology (IT) industry.(ratio:10.00)						
Subject Schoolwide essential virtues							
2. Informa	tion literacy. (ratio:60.00)						
5. Independent thinking. (ratio:20.00)							
7. A spirit of teamwork and dedication. (ratio:20.00)							
	Combining the fundamental knowledge of information systems and the experiences of programming, learn how to develop high quality software by engineering approaches.						
Course Introduction	Due to the diversity of program development capability, the	actual learning	9				
introduction	schedule of each student is different. The listed topics are for reference.						
	Note that this course comes with extra 18 service-learning hours.						

	The c	correspo		course's instructional objectives and t	he cognitive, affective,	
				Id psychomotor objectives. ng the cognitive, affective and psychol	motor	
II.A	the offective : Emp mor Psychomotor:	course's hasis up als, attitu	veracity, conception, pr on the study of various ude, conviction, values, is upon the study of the	us kinds of knowledge in the cognition rocedures, outcomes, etc. kinds of knowledge in the course's ap etc. e course's physical activity and technica	peal,	
No.			objective methods			
1	Learn what is	software	Cognitive			
2	Learn the rela	ated soft	Psychomotor			
	Develop softv techniques	ware by a	Psychomotor			
	The c	orrespond	lences of teaching objectives	s : core competences, essential virtues, teaching	methods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1	ACE		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
2	ACE		27	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
3	ACE		257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
	1			Course Schedule		
Week	Date		Cou	irse Contents	Note	
1	110/09/22 ~ 110/09/28	Introduction				
2	110/09/29 ~ 110/10/05	Software Life Cycle				
3	110/10/06 ~ 110/10/12	Software Development Process				
4	110/10/13~ 110/10/19	Software Modeling				
5	110/10/20~ 110/10/26	Requirement Analysis				
6	110/10/27 ~ 110/11/02	Object Oriented Analysis				

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7	110/11/03~ 110/11/09	Object Oriented Design						
8	110/11/10~ 110/11/16	Design Patterns (1)						
9	110/11/17~ 110/11/23	Midterm Exam Week						
10	110/11/24~ 110/11/30	Design Patterns (2)						
11	110/12/01~ 110/12/07	Design Patterns (3)						
12	110/12/08~ 110/12/14	Implementation Techniques (1)						
13	110/12/15~ 110/12/21	Implementation Techniques (2)						
14	110/12/22 ~ 110/12/28	Implementation Techniques (3)						
15	110/12/29~ 111/01/04	Case Study (1)						
16	111/01/05 ~ 111/01/11	Case Study (2)						
17	111/01/12 ~ 111/01/18	Case Study (3) and Final Evaluation						
18	111/01/19~ 111/01/25	Supplementary Topics						
Requirement		The assignments include homework and quizzes/exams. There is no make-up assignment if you miss it without a reason.						
Teaching Facility		Computer, Projector						
Textbooks and 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. 						
Number of Assignment(s)		6 (Filled in by assignment instructor only)						
Grading Policy		 ♦ Attendance: % ♦ Mark of Usual: 60.0 % ♦ Midterm Exam: 15.0 % ♦ Final Exam: 15.0 % ♦ Other ⟨service learning⟩: 10.0 % 						
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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