Tamkang University Academic Year 111, 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 CourseRequiredOne Semester
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I. Comprehend professional knowledge.
- $\ensuremath{\mathbb{I}}$. 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			
	Combining the fundamental knowledge of information systems and 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			
Week	Date	Course Contents		rse Contents	Note		
1	111/09/05 ~ 111/09/11	Introduction					
2	111/09/12 ~ 111/09/18	Softwa	re & Software Engineeri				
3	111/09/19 ~ 111/09/25	Process Models					
4	111/09/26 ~ 111/10/02	Agile D	Agile Development				

5	111/10/03 ~ 111/10/09	Principles that Guide Practice & Understanding Requirements		
6	111/10/10 ~ 111/10/16	Requirement Modeling		
7	111/10/17 ~ 111/10/23	Requirement Modeling		
8	111/10/24 ~ 111/10/30	Design Concepts		
9	111/10/31 ~ 111/11/06	Design Concepts		
10	111/11/07 ~ 111/11/13	Midterm Exam Week		
11	111/11/14 ~ 111/11/20	Architectural Design		
12	111/11/21 ~ 111/11/27	Component-Level Design		
13	111/11/28 ~ 111/12/04	User Interface Design		
14	111/12/05 ~ 111/12/11	Pattern-Based Design		
15	111/12/12 ~ 111/12/18	WebApp Design		
16	111/12/19 ~ 111/12/25	Quality Concepts		
17	111/12/26 ~ 112/01/01	Review Techniques		
18	112/01/02 ~ 112/01/08	Final Exam Week		
Re	equirement			
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)		20 (Filled in by assignment instructor only)		
Grading Policy		 ◆ Attendance: 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 .
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