Tamkang University Academic Year 107, 2nd Semester Course Syllabus

Course Title	PRACTICE OF OPEN SOURCE SOFTWARE	Instructor	FENG-CHENG CHANG	
Course Class	TQICB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	 Selective One Semester 3 Credits 	
	AND TECHNOLOGY (ENGLISH-TAUGHT PROGRAM), ^{2A} Departmental Aim of Educ	ation		
Cultivate pro	ofessional talents in developing and applying information system	m in various fie	elds.	
	Departmental core compet	ences		
A. Capabili	ty of computer program coding, process planning, and problem	n solving		
B. Capabili	ty of applying basic mathematics and information technology re	elated mathem	natics	
C. Capabili system	ty of applying knowledge of internet structure and protocol in c	ommunicatior	ı	
D. Capabili	ty of developing information system			
E. Capabili	E. Capability of integrating information system			
Course Introduction	There has been a few success stories since the initiation of th concepts. These software packages has been developed by v over the world, collaboratively. In this course, we will learn so concepts of open-source process by developing a real projec should participate a 3-member team and goes through the p	olunteers from me important ct. Each studer	n all	

The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select	applicable ones)	:	
(i) Cognitive Domain :	C1-Remembering,	C2-Understanding,	C3-Applying,
	C4-Analyzing,	C5-Evaluating,	C6-Creating
(ii) Psychomotor Domain :	Pl-Imitation,	P2-Mechanism,	P3-Independent Operation,
	P4-Linked Operati	on, P5-Automation,	P6-Origination
(iii) Affective Domain :	Al-Receiving,	A2-Responding,	A3-Valuing,
	A4-Organizing,	A5-Charaterizing,	A6-Implementing

II. The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

(i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.

- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5, and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time.(For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

	Teaching Objectives		Relevance	
No.			Departmental core competences	
1	Understand the open-source development model	C4	E	
2	Install the platforms and tools for collaborative work	P3	E	
3	Learn the popular development tools for open-source software	P3	E	
4	The techniques for developing cross-platform software	P6	E	

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	Understand the open-source development model	Lecture, Discussion	Written test, Report
2	Install the platforms and tools for collaborative work	Lecture, Practicum	Written test, Practicum
3	Learn the popular development tools for open-source software	Lecture, Practicum	Written test, Practicum
4	The techniques for developing cross-platform software	Lecture, Discussion, Practicum	Written test, Practicum, Report

	Essential	Qualities of TKU Students	Descripti	on	
◇ A global perspective		pective	Helping students develop a broader perspective from which to understand international affairs and global development.		
◆ Information literacy		teracy	Becoming adept at using information tech the proper way to process information.	Becoming adept at using information technology and learning the proper way to process information.	
A vision for the future		e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.		
◇ Moral integrity		у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.		
٠	Independent	thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\diamondsuit A cheerful attitude and healthy lifestyle		itude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.		
\diamondsuit A spirit of teamwork and dedication		mwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.		
\diamondsuit A sense of aesthetic appreciation		sthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.		
			Course Schedule	1	
Week	Date	Subject/Topics		Note	
1	108/02/18 ~ 108/02/24	Introduction			
2	108/02/25 ~ 108/03/03	Using Linux			
3	108/03/04 ~ 108/03/10	Software Development (C / C++ / Java)			
4	108/03/11~ 108/03/17	Software Development (Makefile / Version Control)			
5	108/03/18 ~ 108/03/24	Software Development in Linux (HTML / CSS)			
6	108/03/25 ~ 108/03/31	Software Development (Client-Side JavaScript)			
7	108/04/01 ~ 108/04/07	Software Development (PHP)			
8	108/04/08 ~ 108/04/14	Software Development (MariaDB)			
9	108/04/15 ~ 108/04/21	Open Source Project Initiation			
10	108/04/22 ~ 108/04/28	Midterm Exam Week			
11	108/04/29 ~ 108/05/05	Project Development (1)			
	108/05/06~	Project Development (2)			

13 ^{108/05/13~} ^{108/05/19} ^{108/05/20~} ^{108/05/20~} ^{108/05/26} ^{108/05/27~} ^{108/06/02} ^{108/06/03~} ^{108/06/03~} ^{108/06/03~} ^{108/06/03}	
14 108/05/26 Project Development (4) 15 108/05/27~ 108/06/02 Project Development (5) 16 108/06/03~ Project Development (6)	
15 108/06/02 Project Development (5) 16 108/06/03 ~ Project Development (6)	
16 Project Development (6)	
17 108/06/10~ 108/06/16 Project Development (7)	
18 108/06/17~ 108/06/23 Final Exam Week	
There is no make-up quiz and assignr Requirement	nent if you miss the deadline without a reason.
Teaching Facility Computer, Projector	
Due to the fast evolving of open-source software, we will mostly use the class notes and the Textbook(s) on-line resources as our material	
Reference(s)	
Number of Assignment(s) 6 (Filled in by assignment in	nstructor only)
 Grading Policy Attendance: % ◆ Final Exam: 20.0 % Other ⟨lab⟩: 50.0 % 	Mark of Usual∶10.0 % ✦ Midterm Exam: 20.0 %
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to improperly photocopy othe	ers publications.

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