Tamkang University Academic Year 106, 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 	
	PROGRAM), 2A Departmental Aim of Educ	ation		
Cultivate pro	ofessional talents in developing and applying information syster	m in various fi	elds.	
	Departmental core compet	ences		
A. Capabili	ty of computer program coding, process planning, and problem	1 solving		
B. Capabili	ty of applying basic mathematics and information technology re	elated mathen	natics	
C. Capabilit system	ty of applying knowledge of internet structure and protocol in c	communication	n	
D. Capabili [.]	ty of developing information system			
E. Capabili	ty of integrating information system			
Course Introduction				

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		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		Qualities of TKU Students	Descript	tion		
\diamondsuit 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 technology and learning the proper way to process information.			
•	A vision for th	e future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.			
\diamond	Moral integrit	у	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.			
•	Independent	thinking		Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.		
\diamond	A cheerful att	tude 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		nwork and dedication		Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve		
\diamondsuit A sense of aesthetic appreciation		thetic appreciation		Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy		
	1		Course Schedule			
Week	Date		Subject/Topics			
1	107/02/26 ~ 107/03/04	Linux installation and setup)(1)			
2	107/03/05 ~ 107/03/11	inux installation and setup (2)				
3	107/03/12 ~ 107/03/18	Linux commands and shell	pts			
4	107/03/19~ 107/03/25	Desktop environments				
5	107/03/26~ 107/04/01	Web server installation and configuration (Apache Server)				
6	107/04/02 ~ 107/04/08	Database server installation and configuration (MySQL Server)				
7	107/04/09~ 107/04/15	C/C++/Java development tools (command-line) and Makefile				
8	107/04/16~ 107/04/22	Version control				
9	107/04/23~ 107/04/29	Project management with v	ersion control			
10	107/04/30~ 107/05/06	Midterm Exam Week				
	107/05/07~					

12	107/05/14~ 107/05/20	PHP basics				
13	107/05/21~ 107/05/27	PHP application design				
14	107/05/28~ 107/06/03	PHP application with database				
15	107/06/04~ 107/06/10	Simple web service (JSON as the exchange format)				
16	107/06/11~ 107/06/17	Web application with Javascript				
17	107/06/18~ 107/06/24	Single-page application				
18	107/06/25~ 107/07/01	Final Exam Week				
Requirement		 (1) There is no make-up quiz and assignment if you miss the deadline without a reason. (2) If the periods are the campus-wide roll-calling periods, you will be excluded from the course when the "absence hours" reaches 18. (Article 38.2 of TKU Study Regulations) (2.1) Please note that the "exclusion from the course" is not part of the evaluation of your learning outcome. We consider the "participation" or the "contribution" in the evaluation. However, the administrative team enforces that the campus rule overrides the course evaluation method. The staff will submit the exclusion list on behave of the teacher when you violate the regulation. 				
Teaching Facility Com		Computer, Projector				
Textbook(s)		Due to the fast evolving of open-source software, we will mostly use the class notes and the on-line resources as our material				
Reference(s)						
Number of Assignment(s)		6 (Filled in by assignment instructor only)				
	Grading Policy	 ♦ Attendance: % ♦ Mark of Usual: 10.0 % ♦ Midterm Exam: 20.0 % ♦ Final Exam: 20.0 % ♦ Other ⟨lab⟩: 50.0 % 				
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