

Tamkang University Academic Year 108, 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 AND TECHNOLOGY (ENGLISH TAUGHT PROGRAM), 2A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester
Departmental Aim of Education			
Cultivate professional talents in developing and applying information system in various fields.			
Subject Departmental core competences			
E. Capability of integrating information system(ratio:100.00)			
Subject Schoolwide essential virtues			
2. Information literacy. (ratio:70.00) 4. Moral integrity. (ratio:10.00) 5. Independent thinking. (ratio:10.00) 7. A spirit of teamwork and dedication. (ratio:10.00)			
Course Introduction	<p>There has been a few success stories since the initiation of the open-source concepts. These software packages has been developed by volunteers from all over the world, collaboratively. In this course, we will learn some important concepts of open-source process by developing a real project. Each student should participate a 3-member team and goes through the process.</p>		

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 methods
1	Understand the open-source development model	Cognitive
2	Install the platforms and tools for collaborative work	Psychomotor
3	Learn the popular development tools for open-source software	Psychomotor
4	The techniques for developing cross-platform software	Psychomotor

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	E	2457	Lecture, Discussion	Testing, Discussion(including classroom and online)
2	E	27	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Activity Participation
3	E	257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation
4	E	257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	109/03/02 ~ 109/03/08	Course Overview and Introduction	

2	109/03/09 ~ 109/03/15	Linux Installation and Basic Commands	
3	109/03/16 ~ 109/03/22	Software Development (C / C++ / Java)	
4	109/03/23 ~ 109/03/29	Software Development (Makefile / Version Control)	
5	109/03/30 ~ 109/04/05	Software Development (HTML / CSS)	
6	109/04/06 ~ 109/04/12	Software Development (Client-Side JavaScript)	
7	109/04/13 ~ 109/04/19	Software Development (PHP / MariaDB)	
8	109/04/20 ~ 109/04/26	Example of Developing Application	
9	109/04/27 ~ 109/05/03	Midterm Exam Week	
10	109/05/04 ~ 109/05/10	Project Initiation	
11	109/05/11 ~ 109/05/17	Project Development (1): Requirements and Data Model	
12	109/05/18 ~ 109/05/24	Project Development (2): System Architecture	
13	109/05/25 ~ 109/05/31	Project Development (3): Initial Version into VCS	
14	109/06/01 ~ 109/06/07	Project Development (4): Revision & Progress Report	
15	109/06/08 ~ 109/06/14	Project Development (5): Revision & Progress Report	
16	109/06/15 ~ 109/06/21	Project Development (6): Finalize Documents and Release Version	
17	109/06/22 ~ 109/06/28	Final Exam Week (Date:109/6/18-109/6/24)	
18	109/06/29 ~ 109/07/05	Supplementary teaching:Project Development (7): Project Demonstration	
Requirement	There is no make-up quiz and assignment if you miss the deadline without a reason.		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Due to the fast evolving of open-source software, we will mostly use the class notes and the on-line resources as our material		
References			

Number of Assignment(s)	6 (Filled in by assignment instructor only)
Grading Policy	<ul style="list-style-type: none"> ◆ Attendance : % ◆ Mark of Usual : 10.0 % ◆ Midterm Exam : 20.0 % ◆ Final Exam : 20.0 % ◆ Other (lab) : 50.0 %
Note	<p>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 .</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>