

## Tamkang University Academic Year 109, 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"> <li>◆ Blended Course</li> <li>◆ Selective</li> <li>◆ One Semester</li> <li>◆ 3 Credits</li> </ul>
Relevance to SDGs	SDG4 Quality education		
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	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.		

**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	24	Lecture, Discussion	Testing, Discussion(including classroom and online)
2	E	2	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**

*Note for Blended Course : When utilizing weekly digital instruction, please fill in "Online Asynchronous Instruction".*

Week	Date	Course Contents	Note
1	110/02/22 ~ 110/02/28	Course Overview and Introduction	

2	110/03/01 ~ 110/03/07	Linux Installation and Basic Commands	Online Asynchronous Instruction
3	110/03/08 ~ 110/03/14	Software Development (C / C++ / Java)	
4	110/03/15 ~ 110/03/21	Software Development (Makefile / Version Control)	
5	110/03/22 ~ 110/03/28	Software Development (HTML / CSS)	
6	110/03/29 ~ 110/04/04	Software Development (Client-Side JavaScript)	
7	110/04/05 ~ 110/04/11	Software Development (PHP / MariaDB)	
8	110/04/12 ~ 110/04/18	Example of Developing Application	Online Asynchronous Instruction
9	110/04/19 ~ 110/04/25	Project Initiation	
10	110/04/26 ~ 110/05/02	Midterm Exam Week	
11	110/05/03 ~ 110/05/09	Project Development (1): Requirements and Data Model	
12	110/05/10 ~ 110/05/16	Project Development (2): System Architecture	
13	110/05/17 ~ 110/05/23	Project Development (3): Initial Version into VCS	
14	110/05/24 ~ 110/05/30	Project Development (4): Revision & Progress Report	
15	110/05/31 ~ 110/06/06	Project Development (5): Revision & Progress Report	
16	110/06/07 ~ 110/06/13	Project Development (6): Finalize Documents and Release Version	Online Asynchronous Instruction
17	110/06/14 ~ 110/06/20	Project Development (7): Project Demonstration	
18	110/06/21 ~ 110/06/27	Final Exam Week	
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	◆ Attendance :           %   ◆ Mark of Usual : 10.0 %   ◆ Midterm Exam : 20.0 % ◆ Final Exam :   20.0 % ◆ Other ( lab ) : 50.0 %
Note	<ol style="list-style-type: none"> <li>1. This syllabus may be uploaded at the website of the Course Syllabus Management System at <a href="https://info.ais.tku.edu.tw/csp">https://info.ais.tku.edu.tw/csp</a> or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a></li> <li>2. According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject."</li> <li>3. According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities."</li> <li>4. If there are any temporary course changes (including time changes and classroom changes of distance learning courses, blended courses), please make out an application according to regulations to the Office of Academic Affairs.</li> </ol> <p style="color: red; text-align: center;"><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>