Tamkang University Academic Year 102, 1st Semester Course Syllabus

Course Title	SOFTWARE DEVELOPMENT AND PROJECT MANAGEMENT	Instructor	CHEN, DUEN-KAI
Course Class	TPIAB4A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY, 4A	Details	◆ Selective ◆ One Semester ◆ 3 Credits

Departmental teaching objectives

Cultivate professional talents in software engineering and communication technology.

Departmental core competences

A. Capability of computer program coding, process planning, and problem solving.

B. Capability of applying basic mathematics and information technology related mathematics.

C. Capability of applying knowledge of internet structure and protocol in communication system.

D. Capability of data collecting and analyzing, and organizing software and hardware.

E. Capability of understanding and integrating system structure for problem solving.

F. Capability of system analyzing, modeling, and designing.

G. Capability of management utilizing information technology system.

Course Introduction	This class is aimed to introduce fundamental theories and techniques of project management to students. The goal is for the students to understand the essence of project management and its importance to the success of software project.

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 : P1-Imitation,   P2-Mechanism,   P3-Independent Operation,
                           P4-Linked Operation, P5-Automation,   P6-Origination
 (iii) Affective Domain : A1-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.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	This class is aimed to introduce fundamental theories and techniques of project management.	P4	AEFG

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	This class is aimed to introduce fundamental theories and techniques of project management.	Lecture, Discussion, Practicum	Practicum, Report, Participation, project

This course has been designed to cultivate the following essential qualities in TKU students	
Essential Qualities of TKU Students	Description
◆ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◆ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◇ A vision for the 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	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.
◆ A cheerful attitude 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.
◇ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◆ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	102/09/16 ~ 102/09/22	Overview of this course	
2	102/09/23 ~ 102/09/29	Introduction to Project Management	
3	102/09/30 ~ 102/10/06	Introduction to Project Management	
4	102/10/07 ~ 102/10/13	The Project Management and Information Technology Context	
5	102/10/14 ~ 102/10/20	The Project Management and Information Technology Context	
6	102/10/21 ~ 102/10/27	The Project Management Process Groups	
7	102/10/28 ~ 102/11/03	The Project Management Process Groups	
8	102/11/04 ~ 102/11/10	Project Integration Management	
9	102/11/11 ~ 102/11/17	Project Integration Management	
10	102/11/18 ~ 102/11/24	Midterm Exam Week	
11	102/11/25 ~ 102/12/01	Project Integration Management	
12	102/12/02 ~ 102/12/08	Project Time and Scope Management	

13	102/12/09 ~ 102/12/15	Project Time and Scope Management	
14	102/12/16 ~ 102/12/22	Project Time and Scope Management	
15	102/12/23 ~ 102/12/29	Project Cost Management	
16	102/12/30 ~ 103/01/05	Project Cost Management	
17	103/01/06 ~ 103/01/12	Term project presentation	
18	103/01/13 ~ 103/01/19	Final Exam Week	

Requirement	Details of grading policy and how course project works will be announce in first class. Lecturer remain the right to adjust grading policy. 成績計算及專題執行細節將於課堂上公布，且授課教師保留調整成績計算方式的彈性。
Teaching Facility	Computer, Projector
Textbook(s)	Information Technology Project Management, by Kathy Schwable, Thomson Course Technology
Reference(s)	The Mythical Man-Month: Essays on Software Engineering, anniversary edition, 2nd edition, by Frederick Brooks, Jr., Pearson Education, Inc., 1995
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual：20.0 % ◆ Midterm Exam： 10.0 % ◆ Final Exam： 10.0 % ◆ Other〈course project〉：60.0 %
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 . ※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**