

Tamkang University Academic Year 106, 1st Semester Course Syllabus

Course Title	NETWORK PROGRAMMING	Instructor	FENG-CHENG CHANG
Course Class	TQIDB4A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH- TAUGHT PROGRAM), 4A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 Credits
Departmental Aim of Education			
Cultivate professional talents in developing and applying information system in various fields.			
Departmental core competences			
<ul style="list-style-type: none"> 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 developing information system E. Capability of integrating information system 			
Course Introduction	<p>Learn how to write simple PHP and Node.js web applications, and learn how to extend and/or integrate developed web frameworks to construct a specific application.</p>		

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-Characterizing, 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	PHP language	P3	C
2	Concepts of web application architecture	C3	C
3	Integrate and implement the extensions of a web framework	P4	C

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	PHP language	Lecture, Discussion, Practicum, Problem solving	Written test, Practicum, Report, Participation
2	Concepts of web application architecture	Lecture, Discussion, Practicum	Written test, Practicum, Report, Participation
3	Integrate and implement the extensions of a web framework	Lecture, Discussion, Practicum	Written test, Practicum, Report, Participation

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	106/09/18 ~ 106/09/24	Introduction	
2	106/09/25 ~ 106/10/01	Review of PHP Basics (1)	
3	106/10/02 ~ 106/10/08	Review of PHP Basics (2)	
4	106/10/09 ~ 106/10/15	Review of Database Design	
5	106/10/16 ~ 106/10/22	MVC Frameworks (1)	
6	106/10/23 ~ 106/10/29	MVC Frameworks(2)	
7	106/10/30 ~ 106/11/05	MVC Frameworks (3)	
8	106/11/06 ~ 106/11/12	HTML, CSS, and Client-Side JavaScript (1)	
9	106/11/13 ~ 106/11/19	HTML, CSS, and Client-Side JavaScript (2)	
10	106/11/20 ~ 106/11/26	Midterm Exam Week	
11	106/11/27 ~ 106/12/03	Server-Side Javascript: Node.js (1)	
12	106/12/04 ~ 106/12/10	Server-Side Javascript: Node.js (2)	

13	106/12/11 ~ 106/12/17	Server-Side Javascript: Node.js (3)	
14	106/12/18 ~ 106/12/24	Node.js Application Development (1)	
15	106/12/25 ~ 106/12/31	Node.js Application Development (2)	
16	107/01/01 ~ 107/01/07	Node.js Application Development (3)	
17	107/01/08 ~ 107/01/14	Supplementary Topics	
18	107/01/15 ~ 107/01/21	Final Exam Week	
Requirement	<p>There will be at least 6 assignments and 4 quizzes. Additional rules about the grading are:</p> <p>(1) There is no make-up quiz and assignment if you miss the deadline without a reason.</p> <p>(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)</p> <p>(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 evaluation method. The staff will submit the exclusion list on behave of the teacher when you violate the regulation.</p>		
Teaching Facility	Computer, Projector		
Textbook(s)	R. Lerdorf, K. Tatroe, and P. MacIntyre, Programming PHP, 2nd Ed., O'Reilly, 2006.		
Reference(s)			
Number of Assignment(s)	6 (Filled in by assignment instructor only)		
Grading Policy	<p>◆ Attendance : % ◆ Mark of Usual : 10.0 % ◆ Midterm Exam : 20.0 %</p> <p>◆ Final Exam : 20.0 %</p> <p>◆ Other (assignment and lab) : 50.0 %</p>		
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>		