Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	NETWORK PROGRAMMING		Instructor	FENG-CHENG CHANG
Course Class	TEIDB4P DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM)SCIENCE AND		Details	◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	INFORMATION ENGINEERING, 4P SDG4 Quality education			

Departmental Aim of Education

Ⅰ. Comprehend professional knowledge.

Ⅱ. Acquire mastery of Practical Skills.

Ⅲ. Establish creative achievement.

Subject Departmental core competences

D. Computer networking application skills.(ratio:100.00)

Subject Schoolwide essential virtues

2. Information literacy. (ratio:70.00)

5. Independent thinking. (ratio:10.00)

7. A spirit of teamwork and dedication. (ratio:10.00)

8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	Learn how to write simple Node.js web services, and learn how to extend and/or integrate developed web frameworks to construct a specific application. Learn how to develop simple Android applications to interact with services.

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	Javascript language	Psychomotor
2	Concepts of web application architecture	Cognitive
3	Integrate and implement the extensions of a web framework	Psychomotor
4	Develop Android applications	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	D	25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
2	D	25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
3	D	2578	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
4	D	2578	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)

Course Schedule

Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Course Overview and Introduction	
2	110/09/29 ~ 110/10/05	Review: Web Application Architecture & Client-side JavaScript	Online Asynchronous Instruction
3	110/10/06 ~ 110/10/12	Server-side JavaScript and Node.js (1)	

4	110/10/13~ 110/10/19	Server-side JavaScript and Node.js (2)	
5	110/10/20~ 110/10/26	Node.js Web Application Framework - Express (1)	
6	110/10/27~ 110/11/02	Node.js Web Application Framework - Express (2)	
7	110/11/03~ 110/11/09	Electron	
8	110/11/10~ 110/11/16	Project: Web Service and Electron Application	Online Asynchronous Instruction
9	110/11/17~ 110/11/23	Midterm Exam Week	
10	110/11/24~ 110/11/30	Demonstration of Midterm Project	
11	110/12/01~ 110/12/07	Simple Android Application Development with AndroidStudio	
12	110/12/08~ 110/12/14	Multi-page Application and Multi-lingual Support	
13	110/12/15~ 110/12/21	Integration of Android-based application and Node.js based Services (1)	
14	110/12/22~ 110/12/28	Integration of Android-based application and Node.js based Services (2)	
15	110/12/29~ 111/01/04	Considerations on Multi-type Clients and Web Services	
16	111/01/05~ 111/01/11	Project: Multi-type Client Web Applications	Online Asynchronous Instruction
17	111/01/12~ 111/01/18	Demonstration of Final Projects	
18	111/01/19~ 111/01/25	Supplementary Topics	

Requirement	The assignments include homework, projects, and quizzes/exams. There is no make-up assignment if you miss it without a reason.
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	Node.js and Android online tutorials and manuals.
References	
Number of Assignment(s)	**10** (Filled in by assignment instructor only)
Grading Policy	◆ Attendance： % ◆ Mark of Usual：10.0 % ◆ Midterm Exam： 20.0 % ◆ Final Exam： 20.0 % ◆ Other〈assignent and lab〉：50.0 %

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 .
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