Tamkang University Academic Year 108, 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	◆ 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

C. Capability of applying knowledge of internet structure and protocol in communication system(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	C	257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
2	C	25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
3	C	257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
4	C	257	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)

Course Schedule

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Introduction	
2	108/09/16 ~ 108/09/22	Review of Web Application Architecture	
3	108/09/23 ~ 108/09/29	Client-side JavaScript	

4	108/09/30 ~ 108/10/06	Server-side JavaScript and Node.js (1)	
5	108/10/07 ~ 108/10/13	Server-side JavaScript and Node.js (2)	
6	108/10/14 ~ 108/10/20	Node.js Web Application Framework - Express (1)	
7	108/10/21 ~ 108/10/27	Node.js Web Application Framework - Express (2)	
8	108/10/28 ~ 108/11/03	Development of Web Services (1)	
9	108/11/04 ~ 108/11/10	Development of Web Services (2)	
10	108/11/11 ~ 108/11/17	Midterm Exam Week	
11	108/11/18 ~ 108/11/24	Introduction of Android	
12	108/11/25 ~ 108/12/01	Simple Android Application Development with AndroidStudio	
13	108/12/02 ~ 108/12/08	Multi-page Application and Multi-lingual Support	
14	108/12/09 ~ 108/12/15	Integration of Android-based application and Node.js based Services (1)	
15	108/12/16 ~ 108/12/22	Integration of Android-based application and Node.js based Services (2)	
16	108/12/23 ~ 108/12/29	Integration of Android-based application and Node.js based Services (3)	
17	108/12/30 ~ 109/01/05	Supplementary Topics	
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)	

Requirement	There will be at least 6 assignments and 4 quizzes. Additional rules about the grading are: (1) There is no make-up quiz and assignment if you miss the deadline without a reason. (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) (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.
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 . ※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.**