Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	NETWORK-BASED APPLICATION DESIGN	Instructor	FENG-CHENG CHANG		
Course Class	TEIDB3A DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 3A	Details	 General Course Selective One Semester 3 Credits 		
Relevance to SDGs	elevance SDGs				
	Departmental Aim of Educ	ation			
I. Comprehend professional knowledge.					
II. Acquire	e mastery of Practical Skills.				
III. Establis	sh creative achievement.				
Subject Departmental core competences					
A. Programming and application ability.(ratio:10.00)					
B. Mathem	B. Mathematical reasoning ability.(ratio:10.00)				
C. Impleme	C. Implementing computer systems ability.(ratio:30.00)				
D. Computer networking application skills.(ratio:30.00)					
E. Professional skills for information technology (IT) industry.(ratio:20.00)					
Subject Schoolwide essential virtues					
1. A global	perspective. (ratio:10.00)				
2. Informat	tion literacy. (ratio:30.00)				
3. A vision for the future. (ratio:10.00)					
4. Moral integrity. (ratio:20.00)					
5. Independent thinking. (ratio:15.00)					
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)					
7. A spirit of teamwork and dedication. (ratio:5.00)					
8. A sense of aesthetic appreciation. (ratio:5.00)					

Iı	Course	The prerequisites are the fundamental web application concepts and development experiences. We will use the following specific technology to develop the projects in his course: * learn how to write simple Node.js web services * 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	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment	
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDE		12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
2	ABCDE		12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
3	ABCDE		12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	

4	ABCDE		12345678	Lecture, Discussion	Testing, Study Assignments		
					Discussion(including		
					classroom and online)		
				Course Schedule			
Week	Date		Co	ourse Contents	Note		
1	113/09/09 ~ 113/09/15	Course Overview and Introduction					
2	113/09/16~ 113/09/22	Review: Web Application Architecture & Client-side JavaScript					
3	113/09/23~ 113/09/29	Server-	Server-side JavaScript and Node.js (1)				
4	113/09/30~ 113/10/06	Server-side JavaScript and Node.js (2)					
5	113/10/07 ~ 113/10/13	Node.j	Node.js Web Application Framework - Express (1)				
6	113/10/14~ 113/10/20	Node.js Web Application Framework - Express (2)					
7	113/10/21~ 113/10/27	Electron					
8	113/10/28~ 113/11/03	Project: Web Service and Electron Application					
9	113/11/04~ 113/11/10	Midterm Exam Week					
10	113/11/11~ 113/11/17	Project: Web Service and Electron Application					
11	113/11/18~ 113/11/24	Simple Android Application Development with AndroidStudio					
12	113/11/25~ 113/12/01	Multi-page Application and Multi-lingual Support					
13	113/12/02 ~ 113/12/08	Integration of Android-based application and Node.js based Services (1)					
14	113/12/09~ 113/12/15	Integration of Android-based application and Node.js based Services (2)					
15	113/12/16~ 113/12/22	Considerations on Multi-type Clients and Web Services					
16	113/12/23 ~ 113/12/29	Project: Multi-type Client Web Applications					
17	113/12/30~ 114/01/05	Final Ex	kam Week				
18	114/01/06~ 114/01/12	Flex we	eek, learning activities	s should be arranged.	MSTeams sessions for supplementary topics		
Key capabilities		Informa Probler	ation Technology m solving				

Interdisciplinary					
Distinctive teaching					
Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking				
Requirement	The assignments include homework, projects, and quizzes/exams. There is no make-up assignment if you miss it without a reason.				
Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Handouts, Videos Using teaching materials from other writers:Presentations, Handouts, Videos, Tutorial websites				
References					
Grading Policy	 Attendance: % ◆ Mark of Usual: 10.0 % ◆ Midterm Exam: 15.0 % Final Exam: 15.0 % Other ⟨assignents⟩: 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. W Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 				
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