Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	NETWORK PROGRAMMING	Instructor					
Course Class	TLMXB3C DEPARTMENT OF INFORMATION MANAGEMENT, 3C	Details	 General Course Required One Semester 				
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure						
Departmental Aim of Education							
I. Refinin	g information management skills.						
II. Enhanc	ing information technology capabilities.						
III. Thinkin	g independently with logic analysis.						
IV. Reinfor	rcing team-working spirit.						
V. Valuing	y business and information ethics.						
VI. Cultiva	ting global view.						
	Subject Departmental core competence	es					
D. Computer programming.(ratio:100.00)							
Subject Schoolwide essential virtues							
2. Information literacy. (ratio:80.00)							
5. Independent thinking. (ratio:20.00)							
Course Introduction	Introduction to the basic principles underlying the various fu Internet. Students will learn not only what the Internet is and but also why it is designed the way it is and how it is likely to Topics include the Internet layering architecture, congestion routing, scheduling, and information security. The course wil of protocols commonly used in the Internet.	how it works t evolve in the f control, switch	today, uture. ning,				

	The	correspo		course's instructional objectives and th	ne cognitive, affective,	
				d psychomotor objectives. ng the cognitive, affective and psychon	notor	
II.A	the ffective : Emp mor Psychomotor:	course's bhasis up als, attitu	veracity, conception, pr on the study of various ude, conviction, values, is upon the study of the	is kinds of knowledge in the cognition of rocedures, outcomes, etc. kinds of knowledge in the course's app etc. e course's physical activity and technica	eal,	
No.	Teaching Objectives				objective methods	
	and cultivatir	Inspiring students interest in learning Information Technology (IT), Cognitive d cultivating their basic core competence of IT so as to make it ality in daily lives.				
	2 Guiding students IT skills with diverse examples so that they can Psychomotor apply what they have learned in their live and work				Psychomotor	
		eping abreast of the developments and applications of Affective rmation communication and technology.				
	The c	correspond	lences 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	
2	D		25	Lecture, Discussion	Testing, Study Assignments	
3	D		25	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)	
	1			Course Schedule		
Week	Date		Cou	rse Contents	Note	
1	110/09/22~ 110/09/28	Introduction. Overview and motivation.				
2	110/09/29~ 110/10/05	Direct (Direct Connection			
3	110/10/06~ 110/10/12	Internet Working				
4	110/10/13~ 110/10/19	Advanced Internetworking				
5	110/10/20~ 110/10/26	End to End Protocols				
6	110/10/27~ 110/11/02	Congestion control.				

7	110/11/03~ 110/11/09	End to End Data				
8	110/11/10~ 110/11/16	Network Security				
9	110/11/17 ~ 110/11/23	Midterm Exam Week				
10	110/11/24 ~ 110/11/30	Hot topics - IoT, NFV, and SDN				
11	110/12/01~ 110/12/07	5G				
12	110/12/08 ~ 110/12/14	Data Frame				
13	110/12/15~ 110/12/21	Database				
14	110/12/22 ~ 110/12/28	Database 2				
15	110/12/29 ~ 111/01/04	Applications				
16	111/01/05 ~ 111/01/11	Project Presentation				
17	111/01/12 ~ 111/01/18	Final Exam Week				
18	111/01/19~ 111/01/25					
Re	equirement					
Teaching Facility		Computer, Projector				
Textbooks and Teaching Materials		- Computer Networks - A Systems Approach by Peterson and Davie, published by Morgan Kaufmann, 1996. Handouts				
References		- Python programing books				
Number of Assignment(s)		2 (Filled in by assignment instructor only)				
Grading Policy		 Attendance: 10.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 30.0 % ♦ Final Exam: % ♦ Other ⟨Project presentation⟩: 60.0 % 				
	Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.				
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