Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	NETWORK PROGRAMMING	Instructor	TRAN, HUU KHOA			
Course Class	TLMXB3C DEPARTMENT OF INFORMATION MANAGEMENT, 3C	Details	 General Course Required One Semester 			
Relevance to SDGs	SDG9 Industry, Innovation, and Infrastructure Relevance o SDGs					
Departmental Aim of Education						
I. Refinin	g information management skills.					
II. Enhand	ing information technology capabilities.					
III. Thinkir	ng independently with logic analysis.					
IV. Reinfor	rcing team-working spirit.					
V. Valuing	g business and information ethics.					
VI. Cultiva	ting global view.					
	Subject Departmental core competence	es				
A. Problem	analysis and critical thinking.(ratio:5.00)					
B. Functior	nal business Areas and business practices.(ratio:5.00)					
C. Applications of information systems.(ratio:5.00)						
D. Computer programming.(ratio:65.00)						
E. Network system planning.(ratio:5.00)						
F. Database design and management.(ratio:5.00)						
G. Analysis, design and integration of information system.(ratio:5.00)						
H. Project r	H. Project management.(ratio:5.00)					
Subject Schoolwide essential virtues						
1. A global perspective. (ratio:5.00)						
2. Information literacy. (ratio:30.00)						
3. A vision for the future. (ratio:15.00)						
4. Moral integrity. (ratio:5.00)						

	 5. Independent thinking. (ratio:30.00) 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) 					
Ь	Course Introduction to the basic principles underlying the various functions of the Internet. Students will learn not only what the Internet is and how it works today, but also why it is designed the way it is and how it is likely to evolve in the future. Topics include the Internet layering architecture, congestion control, switching, routing, scheduling, and information security. The course will involve experiments of protocols commonly used in the Internet.					
Di [;] dc I. II.	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	1. Inspiring students interest in learning Information Technology (IT), C and cultivating their basic core competence of IT so as to make it reality in daily lives.				Cognitive	
2	2 Guiding students IT skills with diverse examples so that they can apply what they have learned in their live and work				Psychomotor	
3	3 Keeping abreast of the developments and applications of Affective information communication and technology. Affective					
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment	

1	DEFGH		123457	Lecture, Discussion, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
2	BCGH		68	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
3	ABGH		3568	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
				Course Schedule	
Weel	Date		Cour	se Contents	Note
1	111/09/05~ 111/09/11	Introduct	tion. Overview and mo	tivation.	
2	111/09/12~ 111/09/18	Direct Co	onnection		
3	111/09/19~ 111/09/25	Internet Working			
4	111/09/26~ 111/10/02	Advanced Internetworking			
5	111/10/03~ 111/10/09	End to End Protocols			
6	111/10/10~ 111/10/16	Congestion control.			
7	111/10/17~ 111/10/23	End to Er	nd Data		
8	111/10/24 ~ 111/10/30	Network	Security		
9	111/10/31~ 111/11/06	Program	ming language		
10	111/11/07~ 111/11/13	Midterm	Exam Week		
11	111/11/14 ~ 111/11/20	5G			
12	111/11/21~ 111/11/27	Data Frar	me		
13	111/11/28~ 111/12/04	Database			
14	111/12/05~ 111/12/11	Hot topics - IoT, NFV and SDN			
15	111/12/12 ~ 111/12/18	Applications			
16	111/12/19~ 111/12/25	Project Presentation			
17	111/12/26~ 112/01/01	Project Presentation			

18	112/01/02~ 112/01/08	Final Exam Week			
Requirement					
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)		4 (Filled in by assignment instructor only)			
Grading Policy		 Attendance: 10.0 % ◆ Mark of Usual: 10.0 % ◆ Midterm Exam: 20.0 % Final Exam: % Other ⟨Project presentation⟩: 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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