Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTER NETWORK	Instructor	TENG YU KUANG
Course Class	TEFXB1A DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 1A	Details	◆ General Course◆ Required◆ One Semester
Relevance to SDGs	SDG1 No poverty SDG2 Zero hunger SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

- I . Students may analyze problems in applied science based on the fundamental knowledge of programming, mathematics, and artificial intelligence.
- II. Students may plan and implement an AI system following the procedures of problem analysis, experiment testing, data visualizing, derivation and deduction.
- III. Educate the students to be AI engineers who may accomplish their missions indepedently and may collaborate with their colleagues in the workplace.
- IV. Students may have basic skills and global competence for career diversification, and may keep lifelong learning.

Subject Departmental core competences

- A. Professional analysis.(ratio:20.00)
- B. Practical application.(ratio:30.00)
- C. Professional attitude.(ratio:30.00)
- D. Global Mobility.(ratio:20.00)

Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:20.00)
- 2. Information literacy. (ratio:40.00)
- 3. A vision for the future. (ratio:20.00)
- 4. Moral integrity. (ratio:20.00)

	Course roduction	introdu princip	iction to the dynamic fie	ovide you with a modern eld of computer networking, giving you th s t only today's networks, but tomorrow'				
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 Ob	jectives	objective methods			
	Today's Internet is arguably the largest engineered system ever created by mankind, with hundreds of millions of connected computers, communication links, and switches; with billions of users who connect via laptops, tablets, and smartphones; and with an array of new Internet-connected "things" including game consoles, surveillance systems, watches, eye glasses, thermostats, body scales, and cars.							
	The	correspond	ences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment			
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment			
1	ABCD		1234	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Report(including oral and written)			
	Course Schedule							
Week	Date		Course Contents Note					
1	111/02/21 ~ 111/02/25	What Is the Internet?						

2	111/02/28 ~ 111/03/04	What is a Protocol?	
3	111/03/07 ~ 111/03/11	Application Layer	
4	111/03/14 ~ 111/03/18	Principles of the network application	
5	111/03/21 ~ 111/03/25	Transport Layer	
6	111/03/28 ~ 111/04/01	UDP, TCP	
7	111/04/04 ~ 111/04/08	Network Layer: Data plane	
8	111/04/11 ~ 111/04/15	Router, IP, SDN	
9	111/04/18 ~ 111/04/22	Network Layer: Control Plane	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Link Layer and LANs	
12	111/05/09 ~ 111/05/13	Multiple Access Links and Protocol	
13	111/05/16 ~ 111/05/20	Wireless and Mobile Network	
14	111/05/23 ~ 111/05/27	802.11 wireless LANs	
15	111/05/30 ~ 111/06/03	Security in Computer Networks	
16	111/06/06 ~ 111/06/10	Cryptography	
17	111/06/13 ~ 111/06/17	Multimedia Network	
18	111/06/20 ~ 111/06/24	Final Exam Week	
Re	quirement		
Tea	iching Facility	Computer, Projector	
Textbooks and Teaching Materials		Computer Networking A Top-Down Approach Seventh Edition James F. Kurose University of Massachusetts, Amherst Keith W. Ross NYU and NYU Shanghai	
F	References		

Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	 ↑ Attendance: 10.0 %		
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.		

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