Tamkang University Academic Year 112, 2nd Semester Course Syllabus

Course Title	INTRODUCTION TO COMPUTER NETWORK	Instructor	TENG YU KUANG
Course Class	TKFXB1C DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 1C	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:15.00)
- 2. Information literacy. (ratio:20.00)
- 3. A vision for the future. (ratio:15.00)
- 4. Moral integrity. (ratio:20.00)
- 5. Independent thinking. (ratio:10.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
- 7. A spirit of teamwork and dedication. (ratio:10.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

Ir	Course ntroduction	introdu princip	uction to the dynamic fiell les and practical insight	ovide you with a modern eld of computer networking, giving you th s t only today's networks, but tomorrow'				
do 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	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.							
2	We emphasis upon the study of computer networking knowledge. Cognitive							
	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment							
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment			
1	ABCD		12345678	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Report(including oral and written)			

2	ABCD		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)		
		,		Course Schedule	,		
Week	Date	Course Contents Note					
1	113/02/19 ~ 113/02/25	What Is the Internet?					
2	113/02/26 ~ 113/03/03	What is a Protocol?					
3	113/03/04 ~ 113/03/10	Applica	Application Layer				
4	113/03/11 ~ 113/03/17	Principles of the network application					
5	113/03/18 ~ 113/03/24	Transport Layer					
6	113/03/25 ~ 113/03/31	UDP, TCP					
7	113/04/01 ~ 113/04/07	Network Layer: Data plane					
8	113/04/08 ~ 113/04/14	Router, IP, SDN					
9	113/04/15 ~ 113/04/21	Midterm Exam Week					
10	113/04/22 ~ 113/04/28	Link Layer and LANs					
11	113/04/29 ~ 113/05/05	Link Lay	Link Layer and LANs				
12	113/05/06 ~ 113/05/12	Multiple	Multiple Access Links and Protocol				
13	113/05/13 ~ 113/05/19	Wireles	Wireless and Mobile Network				
14	113/05/20 ~ 113/05/26	802.11	802.11 wireless LANs				
15	113/05/27 ~ 113/06/02	Security in Computer Networks					
16	113/06/03 ~ 113/06/09	Cryptography					
17	113/06/10 ~ 113/06/16	Final Exam Week (Date:113/6/11-113/6/17)					
18	113/06/17 ~ 113/06/23	Flex week, learning activities should be arranged.					
Key capabilities		Information Technology Problem solving Interdisciplinary					

Interdisciplinary	STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching	Special/Problem-Based(PBL) Courses		
Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Environmental Safety		
Requirement			
Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Presentations		
References			
Grading Policy	 ◆ Attendance: 10.0 % ◆ Mark of Usual: 20.0 % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 40.0 % ◆ Other ⟨ ⟩ : % 		
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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