Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	Course Title INTRODUCTION TO COMPUTER NETWORK		TENG YU KUANG			
Course Class	TKFXB1C DEPARTMENT OF ARTIFICIAL INTELLIGENCE, 1C	Details	 General Course Required One Semester 3 Credits 			
Relevance to SDGs	SDG2 Zero hunger					
	Departmental Aim of Educ	ation				
of prog II. Studen analysi III. Educat and ma IV. Studen	 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. II. 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. Professi	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	8. A sense of aesthetic appreciation. (ratio:5.00)					

Course	introdu princip	action to the dynamic fie les and practical insights	eld of computer networking, giving you th s			
 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. 						
		objective methods				
1Today' 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.Psychomotor						
We emphasis upon the study of computer networking knowledge.						
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
Core Compe	etences	Essential Virtues	Teaching Methods	Assessment		
ABCD		12345678	Lecture, Discussion, Practicum	Testing, Discussion(including classroom and online), Report(including oral and written)		
	ntroduction The fferentiate the omains of the . Cognitive : En mod . Cognitive : Em mod . Psychomotol ma . Psychomotol ma . Psychomotol ma . Psychomotol ma . Psychomotol ma . Switches : Wi via laptops, Internet-cor game conso thermostats We emphas The Core Compe	Course ntroduction The correspon fferentiate the various of omains of the course's in Cognitive : Emphasis up morals, attitu Psychomotor: Emphasis up morals, attitu Psychomotor: Emphasis manipulation Today' s Internet is a created by mankind, v millions of connected switches; with billions via laptops, tablets, an Internet-connected ' game consoles, survei thermostats, body sca We emphasis upon th The correspond	Course introduction to the dynamic fie principles and practical insight you' II need to understand no The correspondences between the c and and and fferentiate the various objective methods amor and omains of the course's instructional objectives. and Cognitive : Emphasis upon the study of various the course's veracity, conception, pro Affective : Emphasis upon the study of various I morals, attitude, conviction, values, e preaching Ob Today' s Internet is arguably the largest engic created by mankind, with hundreds of millions of connected computers, communication switches; with billions of users who connect via laptops, tablets, and smartphones; and wit Internet-connected "things" including game consoles, surveillance systems, watches thermostats, body scales, and cars. We emphasis upon the study of computer net The correspondences of teaching objectives	Introduction The correspondences between the course's instructional objectives and the and psychomotor objectives. Ifferentiate the various objective methods among the cognitive, affective and psychomo or mains of the course's instructional objectives. .Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc. Affective : Emphasis upon the study of various kinds of knowledge in the course's appear morals, attitude, conviction, values, etc. .Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation. 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 system, watches, eye glasses, thermostats, body scales, and cars. We emphasis upon the study of computer networking knowledge. The correspondences of teaching objectives : core competences, essential virtues, teaching methods		

2	ABCD		12345678	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
		1		Course Schedule	
Week	Date	Course Contents Note			
1	114/02/17 ~ 114/02/23	What Is the Internet?			
2	114/02/24~ 114/03/02	What is a Protocol?			
3	114/03/03~ 114/03/09	Application Layer			
4	114/03/10~ 114/03/16	Principles of the network application			
5	114/03/17 ~ 114/03/23	Transport Layer			
6	114/03/24~ 114/03/30	UDP, TCP			
7	114/03/31~ 114/04/06	Network Layer: Data plane			
8	114/04/07~ 114/04/13	Router, IP, SDN			
9	114/04/14 ~ 114/04/20	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)			
10	114/04/21~ 114/04/27	Link Layer and LANs			
11	114/04/28~ 114/05/04	Link Layer and LANs			
12	114/05/05~ 114/05/11	Multiple Access Links and Protocol			
13	114/05/12~ 114/05/18	Wireless and Mobile Network			
14	114/05/19~ 114/05/25	802.11 wireless LANs			
15	114/05/26~ 114/06/01	Security in Computer Networks			
16	114/06/02~ 114/06/08	Cryptography			
17	114/06/09 ~ 114/06/15	Final Exam/Final Assessment Week (teachers can adjust the week as needed)			
18	114/06/16~ 114/06/22	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.			
Key capabilities		Probler	ation Technology n solving sciplinary		

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 <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.			
TKFXB1E1039 OC	Page:4/4 2025/1/6 0:11:49			