Tamkang University Academic Year 113, 1st Semester Course Syllabus

Course Title	DISTRIBUTED NETWORKS	Instructor	SHENGZHI HUANG				
Course Class	TEIBM1A MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM),	Details	 General Course Selective One Semester 2 Credits 				
Relevance to SDGs	1A SDG9 Industry, Innovation, and Infrastructure o SDGs						
Departmental Aim of Education							
I. Cultiva	te the ability to conduct independent research and problem sol	ving.					
II. Strengt	hen creativity and research capacity.						
Ⅲ. Build p	rofound professional knowledge in computer science and infor	mation engine	eering.				
IV. Engage	e in self-directed lifelong learning.						
Subject Departmental core competences							
A. Indepen	dent problem solving ability.(ratio:20.00)						
B. Indepen	dent innovative thinking ability.(ratio:20.00)						
C. Research	paper writing and presentation ability.(ratio:20.00)						
D. Research	n & development (R&D) ability in information engineering.(ratic	:20.00)					
E. Project e	xecution and control ability.(ratio:10.00)						
F. Lifelong self-directed learning ability.(ratio:10.00)							
Subject Schoolwide essential virtues							
1. A globa	perspective. (ratio:10.00)						
2. Information literacy. (ratio:20.00)							
3. A vision for the future. (ratio:20.00)							
4. Moral integrity. (ratio:10.00)							
5. Independent thinking. (ratio:10.00)							
6. A cheerful attitude and healthy lifestyle. (ratio:10.00)							
7. A spirit of teamwork and dedication. (ratio:10.00)							
8. A sense of aesthetic appreciation. (ratio:10.00)							

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Int	This course explores the principles and practices of distributed networks, focusing on the design, implementation, and management of network systems that operate across multiple, interconnected devices. Students will gain a deep understanding of how distributed networks function, including key concepts such as network topologies, protocols, data consistency, and fault tolerance. Also, this course will share the information about the update-to-date research progress by asking students to read selected papers in this research areaI						
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				objective methods		
1	This course will teach the knowledge of distributed computer Cognitive network systems, including fundamental, platforms, networking and applications.						
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1	ABCDEF		12345678	Lecture, Discussion	Testing, Report(including oral and written)		
				Course Schedule			
Week	Date		Cour	rse Contents	Note		
1	113/09/09 ~ Introduction to distributed network systems 113/09/15 Introduction to distributed network systems						
2	113/09/16~ 113/09/22	Introduction to distributed network systems					
3	113/09/23~ 113/09/29	³ ~ Distributed network system architectures					
4	113/09/30~ 113/10/06	Distributed network system architectures					
5	5 113/10/07~ 113/10/13 National Day (Holiday)						

6	113/10/14~ 113/10/20	Distributed network system architectures	
7	113/10/21~ 113/10/27	Distributed network processed	
8	113/10/28 ~ 113/11/03	Distributed network processed	
9	113/11/04~ 113/11/10	Midterm Exam	
10	113/11/11~ Distributed network communication models		
11	113/11/18~ 113/11/24	Paper study and presentation of selected topics	
12	113/11/25~ Paper study and presentation of selected topics		
13	113/12/02 ~ 113/12/08	Paper study and presentation of selected topics	
14	113/12/09~ 113/12/15	Paper study and presentation of selected topics	
15	113/12/16~ 113/12/22	Paper study and presentation of selected topics	
16	113/12/23~ 113/12/29	Paper study and presentation of selected topics	
17	113/12/30~ 114/01/05	Paper study and presentation of selected topics	
18	114/01/06~ 114/01/12	Flexibility	
Key capabilities		Information Technology	
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)	
Distinctive teaching			
Course Content		Logical Thinking	
Requirement			

Textbooks and Teaching Materials	Self-made teaching materials:Presentations Using teaching materials from other writers:Textbooks Name of teaching materials: Distributed Systems 4th edition (https://www.distributed-systems.net/index.php/books/ds4/)				
References					
Grading Policy	 ◆ Attendance: 20.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 40.0 % ◆ Final Exam: % ◆ Other ⟨ presentation ⟩ : 40.0 % 				
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. Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. 				

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