②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese				學年/學期 Academic Year/Se	114/1		
課程名稱(英文) Course Name in English	Computer Networks and Communications						
科目代碼 Course Code	CSI EM0250	系級 Department & Year		開課單位 Course-Offering Department			
修別 Type	El ecti ve	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/						
先修課程 Prerequisite							
market by D. D. J. J.							

課程描述 Course Description

Introduce the fundamental knowledge about data and computer communications for both wired and wireless/cellular networks, with an emphasis on the physical and medium access control layers.

課程目標 Course Objectives

细印口栖的名声光化

- 1. Know the fundamental knowledge of data communications
- 2. Know the architecture of wired and wireless networks
- 3. Configure network operations

	条專業能力 Basic Learning Outcomes	課程目標與系專業能 力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
А	Ability to integrate knowledge and technologies of computer science and information engineering.	
В	Ability to design and conduct science experiments and to validate hypotheses.	
С	Ability to design and develop computer software and hardware.	
D	Ability to design and develop teamprojects.	
E	Ability of analytical thinking, creative research planning, and innovative development.	

圖示說明Illustration : ● 高度相關 Highly correlated ○中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content

週次Week	內容 Subject/Topics	備註Remarks
1	(9/8) Data Communication and Networking	
2	(9/15) TCP/IP Protocol Architecture	
3	(9/22) Data Transmission (I)	
4	(9/29) Hol i day	
5	(10/6) Hol i day	

6	(10/13) Data Transmission (II)					
7	(10/20) Transmissi on Media					
8	(10/27) Si gnal Encodi ng Techni ques (I)					
9	(11/3) Midterm Exam					
10	(11/10) Si gnal Encodi ng Techni ques (II)					
11	(11/17) Error Detection and Correction					
12	(11/24) Data Link Control Protocols					
13	(12/1) Multiplexing and Multiple Access					
14	(12/8) Wred LAN: Ethernet					
15	(12/15) Wrel ess LAN					
16	(12/22)					
17	(12/29) Fi nal Exam					
18	(1/5) Questi on Feedback					
	教 學 策 略 Teaching Strategies					
✓	Lecture Group Discussion	Field Trip				
Mil	scel I aneous:					
	教學創新自評 Teaching Self-Evaluation					
(Innovative Teaching)					
	(PBL) (TBL)	(SBL)				
	Flipped Classroom Mocs					
(Social Responsibility)					
	Community Practice Industy-Academia Cooperati	on				
(Transdi sci pl i nary Proj ects)					
	Transdi sci pl i nary Teachi ng Inter-col l egi ate Teachi ng	J				
	Courses Co-taught with Industry Practitioners					
othe	r:					

學期成績計算及多元評量方式 Grading & Assessments									
配分項目	配分比例 多元評量方式 Assessments								
Items	Percentage	測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
() General Performance (Attendance Record)	5%								
Midterm Exam	35%	>							
Fi nal Exam	35%	>							
Homework and/or Assignments	25%								
Miscel I aneous									

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目(書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Data and Computer Communications, 10th edition, William Stallings Data Communications and Networking, 5th edition, Behrouz A. Forouzan

課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website(Including online teaching information.

Personal website can be listed here.)

https://elearn4.ndhu.edu.tw/moodle/

其他補充說明(Supplemental instructions)