朝陽科技大學 097學年度第2學期教學大綱
Computer Networks 電腦網路

當期課號	3716	Course Number	3716
授課教師	戴紹國	Instructor	DAI,SHOU KUO
中文課名	電腦網路	Course Name	Computer Networks
開課單位	資訊管理系(四進)二A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	在這個課程中，我們將學習電腦網路及網際網路如何運作。 主要分成四個部份來討論: 1. 資料傳輸，介紹硬體層的運作。 2. 封包傳輸，討論封包如何交換。 3. 網路連接，說明網際網路的架構與定址及其協定等。 4. 網路應用，解釋網路應用程式的運作。	Objectives	1. Computer networks terminology & Communication basics 2. Networking and network technologies: Packet switching, framing, Local and wide area technologies, Networking addressing, Connection and extension, Measures of delay and throughput, Protocol layers 3. Internets and Internetworking: Internet Protocol (IP) datagram format and addressing, Internet routers and routing, Address binding (ARP), User datagram protocol (UDP), Transmission control protocol (TCP) 4. Network applications: Domain name system (DNS), File transfer protocol (FTP), E-mail transfer (SMTP, POP3), Web technologies and protocol (HTTP, CGI) .
教材	textbook: 1. "Computer Networking: A Top-Down Approach Featuring the Internet," fouth editon, J.F. Kurose and K.W. Ross, Addison Wesley, 2004. 2. "Computer Networks," Fourth Edition, Andrew S. Tanenbaum, Prentice Hall PTR, 2003. 3. "TCP/IP Protocol Suite," 3/e, FOROUZAN, McGRAW-HILL, 2006.	Teaching Materials	1. "Computer Networking: A Top-Down Approach Featuring the Internet," fourth editon, J.F. Kurose and K.W. Ross, Addison Wesley, 2004. 2. "Computer Networks," Fourth Edition, Andrew S. Tanenbaum, Prentice Hall PTR, 2003. 3. "TCP/IP Protocol Suite," 3/e, FOROUZAN, McGRAW-HILL, 2006.
成績評量方式	作業 10%, 小考 20%, 期中考 30%, 期末考 30%, 平時成績 10%	Grading	Homework 10%, Quiz 20%, Midterm 30%, Final exam 30%, class 10%
教師網頁	http://163.17.20.82/moodle/		
教學內容	課程中, 我們將學習電腦網路及網際網路如何運作。主要分成四個部份來討論: 1. 資料傳輸，介紹硬體層的運作。 2. 封包傳輸，討論封包如何交換。 3. 網路連接，說明網際網路的架構與定址及其協定等。 4. 網路應用，解釋網路應用程式的運作。	Syllabus	This course will cover topics of fundamental importance concerning the computer networks and Internets.

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