朝陽科技大學 095學年度第1學期教學大綱
Computer Networks 電腦網路

當期課號	2224	Course Number	2224
授課教師	范揚文	Instructor	FAN,YANG WEN
中文課名	電腦網路	Course Name	Computer Networks
開課單位	資訊管理系(二日)三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	Computer Networks, by Andrew S. Tanenbaum, Prentice Hall, 2003, 4th Edition. Douglas Comer. Computer Networks and Internets. (中譯本：鄭王駿 、鄧姚文（2001）。電腦與網際網路。台北：全華)。	Teaching Materials	Computer Networks, by Andrew S. Tanenbaum, Prentice Hall, 2003, 4th Edition.
成績評量方式	20% Homeworks & In-class Response 40% Mid Term Exam. 40% Final Exam.	Grading	20% Homeworks & In-class Response 40% Mid Term Exam. 40% Final Exam.
教師網頁	www.cyut.edu.tw/~ywfan		
教學內容	This course provides a comprehensive overview of computer networks. Topics include network architectures, communication protocols; data link control, medium access control, LANS and MANS; network layer, TCP/IP; and network security	Syllabus	This course provides a comprehensive overview of computer networks. Topics include network architectures, communication protocols; data link control, medium access control, LANS and MANS; network layer, TCP/IP; and network security

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