朝陽科技大學 098學年度第2學期教學大綱
Computer Networks 電腦網路

當期課號	7405	Course Number	7405
授課教師	林芳昌	Instructor	LIN,FANG CHANG
中文課名	電腦網路	Course Name	Computer Networks
開課單位	資訊管理系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
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	1. Papers 2. IETF RFC 3. "Computer Networking: A Top-Down Approach Featuring the Internet," third editon, J.F. Kurose and K.W. Ross, Addison Wesley, 2004. 4. "Wireless and Mobile ALL-IP Networks," Yi-Bing Lin and Ai-Chun Pang, Wiley, 2005. 5. "Wireless Sensor Networks," Callaway, Auerbach, 2004.	Teaching Materials	1. Papers 2. IETF RFC 3. "Computer Networking: A Top-Down Approach Featuring the Internet," third editon, J.F. Kurose and K.W. Ross, Addison Wesley, 2004. 4. "Wireless and Mobile ALL-IP Networks," Yi-Bing Lin and Ai-Chun Pang, Wiley, 2005. 5. "Wireless Sensor Networks," Callaway, Auerbach, 2004.
成績評量方式	1. Participation: 40% 2. Mid-term examination: 20% 3. Final project: 40%	Grading	1. Participation: 40% 2. Mid-term examination: 20% 3. Final project: 40%
教師網頁	www.cyut.edu.tw/~fclin		
教學內容	1. Advanced TCP and IP protocols 2. Mobile IP 2. Wireless communication 3. Bluetooth 4. Sensor networks 5. Multimedia netwoking	Syllabus	1. Advanced TCP and IP protocols 2. Mobile IP 2. Wireless communication 3. Bluetooth 4. Sensor networks 5. Multimedia netwoking

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