# 朝陽科技大學 095學年度第2學期教學大綱
# Computer Networks 電腦網路

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| 當期課號 | 2268 | Course Number | 2268 |
| 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(四日)二C | 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 | 1. "Computer Networking: A Top-Down Approach Featuring the Internet," third editon,<br>J.F. Kurose and K.W. Ross, Addison Wesley, 2004.<br><br>2. "Computer Networks," Fourth Edition,<br>Andrew S. Tanenbaum, Prentice Hall PTR, 2003.<br><br>3. "TCP/IP Protocol Suite," 3/e,<br>FOROUZAN, McGRAW-HILL, 2006. | Teaching Materials | 1. "Computer Networking: A Top-Down Approach Featuring the Internet," third editon,<br>J.F. Kurose and K.W. Ross, Addison Wesley, 2004.<br><br>2. "Computer Networks," Fourth Edition,<br>Andrew S. Tanenbaum, Prentice Hall PTR, 2003.<br><br>3. "TCP/IP Protocol Suite," 3/e,<br>FOROUZAN, McGRAW-HILL, 2006. |
| 成績評量方式 | 1. 作業與平時成績 40 %<br>2. 期中考 30%<br>3. 期末考 30% | Grading | 1. Exercise and Participation 40 %<br>2. Midterm Exam. 30%<br>3. Final Exam. 30% |
| 教師網頁 | | | |
| 教學內容 | 1. USING AND BUILDING INTERNET APPLICATIONS<br>2. DATA TRANSMISSION<br>3. PACKET TRANSMISSION<br>4. INTERNETWORKING<br>5. NETWORK APPLICATIONS | Syllabus | 1. USING AND BUILDING INTERNET APPLICATIONS<br>2. DATA TRANSMISSION<br>3. PACKET TRANSMISSION<br>4. INTERNETWORKING<br>5. NETWORK APPLICATIONS |

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