

朝陽科技大學 095學年度第1學期教學大綱
High Speed Networking 高速網路

當期課號	7388	Course Number	7388
授課教師	施再繁	Instructor	SHIH,TZAY FARN
中文課名	高速網路	Course Name	High Speed Networking
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	這門課的目標是提供學生高速網路方面的知識。在完成這門課之後，學生將可以學習到下面幾點：1. 高速網路基本概念 2. 高速乙太網路 3. 超高速乙太網路 4. 光纖分散式界面網路 5. 非同步傳輸模式網路 6. 高速無線網路。	Objectives	The goal of this course is to provide the students with a basic knowledge of Internet Technologies. The students will realize the following high speed network technologies after finishing this course: 1. High Speed Network Concept 2. Fast Ethernet 3. Gigabit Ethernet 4. FDDI Network 5. ATM Network 6. High Speed Wireless Network
教材	1. High Speed Networking Concept PS vs. CS 2. High Speed Networks on Layer 2 IEEE 802.3u (FE) IEEE 802.3z/ab (GE) IEEE 802.3ae (10GE) 3. High Speed Networks on Layer 3 IPv4 IPv6 Internet QoS Framework 4. High Speed Networks on Layer 4 TCP/UDP 5. High Speed Wireless Networking WLAN IEEE 802.11a/b Mobile IP 3G WCDMA 3GPP Cellular IP 6. Project Issue and Coding	Teaching Materials	1. High Speed Networking Concept PS vs. CS 2. High Speed Networks on Layer 2 IEEE 802.3u (FE) IEEE 802.3z/ab (GE) IEEE 802.3ae (10GE) 3. High Speed Networks on Layer 3 IPv4 IPv6 Internet QoS Framework 4. High Speed Networks on Layer 4 TCP/UDP 5. High Speed Wireless Networking WLAN IEEE 802.11a/b Mobile IP 3G WCDMA 3GPP Cellular IP 6. Project Issue and Coding
成績評量方式	Midterm 30% Paper Study & Report 30% Final Project 20% Class Participation 20%	Grading	Midterm 30% Paper Study & Report 30% Final Project 20% Class Participation 20%
教師網頁	-		
教學內容	Textbook Kurose and Rose, "Computer Networking 3rd ed.", Addison Wesley. Reference books J. Walrand and P. Varaiya, "High Performance Communication Networks", Morgan Kaufmann. H. Holma and A. Toskala, "WCDMA for UMTS 2nd ed", John Wiley and Sons.	Syllabus	Textbook Kurose and Rose, "Computer Networking 3rd ed.", Addison Wesley. Reference books J. Walrand and P. Varaiya, "High Performance Communication Networks", Morgan Kaufmann. H. Holma and A. Toskala, "WCDMA for UMTS 2nd ed", John Wiley and Sons.