

朝陽科技大學 099學年度第1學期教學大綱  
Introduction to Computer Networks 電腦網路概論

當期課號	2515	Course Number	2515
授課教師	洪若偉	Instructor	HUNG,RUO WEI
中文課名	電腦網路概論	Course Name	Introduction to Computer Networks
開課單位	資訊工程系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	<p>這門課的目標是提供學生電腦網路的知識，主題包括：網路簡介、網路實體層、資料連結層、網路層與應用層的演算法與協定。在完成這門課之後，學生將可以學習到下面幾點：1. 瞭解網路各層的功能；2. 瞭解網路層間的互相運作；3. 瞭解網路上不同系統相對應層的協定運作；4. 建立網路整體的觀念、演算法與協定。</p>	Objectives	<p>The goal of this course is to provide students with a basic knowledge of the computer networking. The main topics include networking introduction, Physical Layer of Networks, Data-link Layer of Networks, Network Layer of Networks, and Application Layer of Networks. Students will realize the following backgrounds of this course after completing the course: 1. The function of each network layer; 2. The operation of inter-layer; 3. Understand the operation of protocols; 4. Understand the algorithms and concepts of layered protocols.</p>
教材	<p>教科書： 陳大任譯, "電腦網際網路 4/e", 全華圖書, 2009年. (ISBN: 978-986-154-661-2)</p> <p>參考書目： 1. 陳湘陽, "網路概論 2/e", 博碩, 2009. (ISBN: 978-986-201-187-4) 2. 陳惠貞/周念湘, "網路概論", 碁峰, 2007. (ISBN: 978-986-181-201-4) 3. Stevens et al., "UNIX Network Programming, Vol. 1, 3/e", Addison-Wesley, 2004. (ISBN: 0-13-123052-2) (全華代理)</p>	Teaching Materials	<p>Textbook: Kurose and Ross, "Computer Networking-A Top-Down Approach, 4/e", Pearson Addison-Wesley, 2009. (歐亞書局代理英文書)</p> <p>Reference Books: 1. 陳湘陽, "網路概論 2/e", 博碩, 2009. (ISBN: 978-986-201-187-4) 2. 陳惠貞/周念湘, "網路概論", 碁峰, 2007. (ISBN: 978-986-181-201-4) 3. Stevens et al., "UNIX Network Programming, Vol. 1, 3/e", Addison-Wesley, 2004. (ISBN: 0-13-123052-2) (全華代理)</p>
成績評量方式	<p>1. 隨堂考n次(Course Exams): 20% 2. 小考2次(Quizzes): 10% 3. Socket程式設計: 10% 4. 期中考(Midterm Exam): 35% 5. 期末考(Final Exam): 35% 6. 課程參與(Participation): 5%</p>	Grading	<p>1. Course Exams: 20% 2. Quizzes: 10% 3. Socket programming: 10% 4. Midterm exam: 35% 5. Final Exam: 35% 6. Course Participation: 5%</p>
教師網頁	<a href="http://www.cyut.edu.tw/~rwhung">http://www.cyut.edu.tw/~rwhung</a>		
教學內容	<p>電腦網路是電腦的一個重要的應用。本課程的主要主題包括： Topic 1: 電腦網路與網際網路 Topic 2: 網路媒介與設備 Topic 3: 應用層 Topic 4: 傳輸層 Topic 5: 網路層 Topic 6: 連結層與區域網路 Topic 7: 其它相關的主題。</p>	Syllabus	<p>Computer Networking is an important application of computers. The main topics of the course include the following: Topic 1: Computer Networks and the Internet Topic 2: Network Media and Devices Topic 3: Application Layer Topic 4: Transport Layer Topic 5: Network Layer Topic 6: Link Layer and Local Area Networks Topic 7: Other related topics.</p>

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