

Course Information	
Course title	Introduction to Computer Networks
Semester	107-2
Designated for	COLLEGE OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE DEPARTMENT OF ELECTRICAL ENGINEERING
Instructor	WAN-JIUN LIAO
Curriculum Number	EE4020
Curriculum Identity Number	901 31110
Credits	3.0
Course Syllabus	
Please respect the intellectual property rights of others and do not copy any of the course information without permission	
Course Description	1. Introduction to Computer Network 2. Transport Layer: flow control and congestion control; TCP/UDP 3. Network Layer: routing and IP 2. Data Link Layer and Medium Access Control (MAC) 4. Recent Advances in Computer Networking
Course Objective	這門課主要是設計給電機資訊領域大學部學生有關電腦網路之基礎課程，課程內容主要將著重在通訊網路發展趨勢分析及背後原理、通訊協定的設計、及簡單的網路效能分析及模擬。涵蓋的主題將包括通訊網路媒體存取層(Medium Access Control, MAC Layer)、網路層(Network Layer)、及傳輸層(Transport Layer)。透過這門課，學生將學習到通訊網路核心技術及未來發展所需掌握的關鍵技術，也為大學部「網路與多媒體實驗」課程及無線網路課程，提供必備的基礎。
Office Hours	Appointment required.
References	參考書目： 1. Andrew S.Tanenbaum“Computer Networks” seventh Edition 2017, Pearson. 2. Larry L. Peterson and Bruce S. Davie, "Computer Networks: A System Approach," Morgan Kaufmann Publishers, Fifth Edition, 2012
Designated reading	Computer Networking: A Top-Down Approach, Seven Edition, Jaames F. Kurose, Keith W. Rose, Pearson 2017
Progress	

Week	Date	Topic
第 2 週	2/28	No class
第 3 週	3/07	Chapter 1: Computer Networks and the Internet
第 4 週	3/14	Chapter 1: Computer Networks and the Internet (cont)
第 5 週	3/21	Chapter 2: Application Layer
第 6 週	3/28	Chapter 3: Transport Layer
第 7 週	4/04	No class
第 8 週	4/11	Chapter 3: Transport Layer (cont)
第 9 週	4/18	Chapter 3: Transport Layer (cont)
第 10 週	4/25	Chapter 4: Network Layer: Data Plane
第 11 週	5/02	Chapter 4: Network Layer: Data Plane (cont) Chapter 5: Network Layer: Control Plane
第 12 週	5/09	Chapter 5: Network Layer: Control Plane
第 13 週	5/16	Final Project: TA hours
第 14 週	5/23	Final Exam
第 15 週	5/30	Chapter 6: Link Layer
第 16 週	6/06	Chapter 6: Link Layer (cont)
第 17 週	6/13	Final Project Presentation (all day)