



課 綱 Course Outline
資訊工程學系國際組

中文課程名稱 Course Name in Chinese	無線網際網路				
英文課程名稱 Course Name in English	Wireless Internet				
科目代碼 Course Code	CSIEM0160	班 別 Degree	碩士班 Master' s		
修別 Type	選修 Elective	學分數 Credit(s)	3.0	時 數 Hour(s)	3.0
先修課程 Prerequisite					
課程目標 Course Objectives					
<p>探討無線網際網路之架構與通訊方式，深入介紹IEEE802系列的無線網路系統，從通訊協定與服務開發的角度學習相關知識。</p> <p>The goal of the course is to let you understand the architecture and the communication technologies of wireless mobile network. The detail of the IEEE802.11, such as protocols architecture and service development, will be studied in the courses.</p>					
系教育目標 Dept.' s Education Objectives					
1	探究學科知識，善用專業技能 Explore academic knowledge, utilize professional skills.				
2	訓練評析思考，創新解決問題 Exercise analytical thinking, enhance creative problem solving skills.				
3	學習團隊分工，強化溝通表達 Participate in teamwork, strengthen communication skills.				
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	統合資工知識技術之能力 Ability to integrate knowledge and technologies of computer science and information engineering.			●	
B	設計技術理論驗證實驗之能力 Ability to design and conduct science experiments and to validate hypotheses.			●	
C	資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware.			●	

D	團隊專案開發之能力 Ability to design and develop team projects.	○
E	批判性思考與創新研發之能力 Ability of analytical thinking, creative research planning, and innovative development.	●
圖示說明Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated		
課程大綱 Course Outline		
1. Introduction of this course week 2. Concept of Wireless Network week 3. Wireless Local Area Networks 4. Mobility Management week 5. Wireless Wide Area Network week 6. 2G/3G Network		
資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等) Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)		
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods		
Class lectures, assignments, lab sessions and term project		
其他 Miscellaneous		