


國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	下一代網際網路		學年/學期 Academic Year/Semester	106/2
課程名稱(英文) Course Name in English	Next Generation Internets			
科目代碼 Course Code	CSIEM0120	系級 Department & Year	碩士	開課單位 Course-Offering Department
資訊工程學系				
修別 Type	選修 Elective	學分數/時間 Credit(s)/Hour(s)	3.0/3.0	
授課教師 Instructor	/陳旻秀			
先修課程 Prerequisite				
課程描述 Course Description				
The goals of the course are to let you understand 1. Architecture of wireless mobile network 2. Future of wireless mobile network 3. Research issue				
課程目標 Course Objectives				
介紹下一代網際網路的發展及其通訊協定				
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				
授課進度表 Teaching Schedule & Content				
週次 Week	內容 Subject/Topics			備註 Remarks
1	Introduction			
2	WiMAX and LTE			
3	WiMAX and LTE			
4	MANET and VANET routing			
5	MANET and VANET routing			

6	MANET and VANET routing	
7	IP Mobility Management	
8	IP Mobility Management	
9	期中考試週 Midterm Exa	
10	IP Mobility Management	
11	Next-generation Wireless Internet and SIP	
12	Next-generation Wireless Internet and SIP	
13	Next-generation Wireless Internet and SIP	
14	Service Discovery Mechanisms	
15	Service Discovery Mechanisms	
16	Vehicle Positioning, Electronic Maps, and Integrated Applications	
17	Vehicle Positioning, Electronic Maps, and Integrated Applications	
18	期末考試週 Final Exam	

教 學 策 略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績 General Performance	10%								
期中考成績 Midterm Exam	30%								
期末考成績 Final Exam	30%								
作業成績 Homework and/or Assignments									
其他 Miscellaneous (Paper Presentation and Report)	40%								

評量方式補充說明

Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)
Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Text Book: None

Reference:

Dave Wisely, Philip Eardley and Louise Burness, IP for 3G, Networking Technologies for Mobile Communications, John Wiley & Sons, 2002.

Lawrence Harte, Richard Levine and Roman Kikta, 3G Wireless Demystified, Mc Graw Hill, 2002.

Y-Bing Lin and Imrich Chlamtac, Wireless and Mobile Network Architectures, Wiley Computer Publishing, 2001.

Harri Holma and Antti Toskala, WCDMA for UMTS HSPA Evolution and LTE 5th Edition, John Wiley & Sons, 2010.

Releated Papers

課程教材網址 (教師個人網址請列在本校內之網址)
Teaching Aids & Teacher's Website (Personal website can be listed here.)

其他補充說明 (Supplemental instructions)