



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	無線網際網路			學年/學期 Academic Year/Semester	115/1
課程名稱(英文) Course Name in English	Wireless Internet				
科目代碼 Course Code	CSIEM0160	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 goal of the course is to let you understand 無線網路發展現況 未來網路發展趨勢 新的研究議題介紹 Architecture of wireless mobile network Future of wireless mobile network Research issue					
課程目標 Course Objectives					
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。 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.					
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 of this course				
2	Review the computer network				

3	Review the computer network	
4	Review the network layer	
5	Review the network layer	
6	Concept of Wireless Network	
7	Concept of Wireless Network	
8	Concept of Wireless Network	
9	期中考試週 Midterm Exam	
10	WLAN	
11	WLAN	
12	WLAN	
13	Mobility Management	
14	Mobility Management	
15	WWAN and 3G	
16	WWAN and 3G	
17	期末考試週 Final Exam	

彈性 教學 規劃 Flexible Teaching Plan	請勾選(至少需勾選1 個項目): Please tick the box(es). (At least one item is required.): ☒ 問題討論 Problem-based Discussion ☐ 翻轉教學 Flipped Classroom ☐ 展演實作 Performance / Practical Presentation ☐ 校外參訪 Off-campus Visit ☐ 講座活動 Lecture / Seminar ☒ 線上作業 Online Assignments ☐ 自主學習 Self-directed Learning ☐ 課業輔導 Academic Support ☐ 實驗操作 Experiment Operation ☐ 遠距教學(同步) Distance Learning (Synchronous) ☐ 遠距教學(非同步) Distance Learning (Asynchronous) ☐ 其他(請填寫) Others (Please specify.): 備註: 本校學期週數自115 學年度起調整為17 週, 為符合1學分18 小時之原則, 請教師規劃安排彈性教學。 Note: From the 115th academic year, the semester will be 17 weeks. Please include flexible teaching activities to meet the required 18 hours per credit.
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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:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

- ☐ 問題導向學習 (PBL) ☐ 團體合作學習 (TBL) ☐ 解決導向學習 (SBL)
☐ 翻轉教室 Flipped Classroom ☐ 磨課師 Moocs

社會責任 (Social Responsibility)

- ☐ 在地實踐 Community Practice ☐ 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching ☐ 跨院系教學 Inter-collegiate Teaching
☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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(含出缺席) General Performance (Attendance Record)									
期中考成績 Midterm Exam	50%	✓							
期末考成績 Final Exam	50%	✓							
作業成績 Homework and/or Assignments									
其他 Miscellaneous (_____)									
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.)									
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 Radio Access for Third Generation Mobile Communication, John Wiley & Sons, 2003. 相關論文 Releated Papers									
課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.)									
http://www.elearn.ndhu.edu.tw/									
其他補充說明 (Supplemental instructions)									