

國立雲林科技大學111年度資訊工程系碩士班 專業必修 課程流程圖

課程流程圖(講授時數-實習時數-學分數)

第一學年(碩一)		第二學年(碩二)	
第一學期	第二學期	第一學期	第二學期
專業必修科目(計8學分)			
書報討論(一) Seminar(I) 0-2-1	書報討論(二) Seminar(II) 0-2-1	碩士論文 Thesis 3-0-3	碩士論文 Thesis 3-0-3
專業選修科目(至少應修24學分)			
合計：最低畢業總學分數為32學分(含碩士論文6學分)			
備註：本流程圖適用 111 年度入學之碩士班新生。 Remark: This flow chart is applicable to students enrolled in the Master's program in year 111 1. 研究生畢業標準如下： The graduation criteria for postgraduate students are as follows: (1) 須提出下列證明之一：a.學術會議或期刊以英文投稿或接受之證明b. 具共同發明人之專利證書或專利申請證明。 One of the following certificates is required: a. Proof of contribution or acceptance in English of academic conferences or periodicals. b. Co-inventors' patent certificate or proof of patent application. (2) 若無法符合上述條件，須經學術委員審查，且總人數2/3委員贊成通過始可畢業。 If the above requirements are not met, graduation shall be possible only after the examination of academic members and the approval of two-thirds of the total number of members. (3) 學生提出申請與參加畢業口試，須經指導教授同意。 Applications and oral examinations are subject to the consent of the instructor. (4) 學生須通過CPE大學程式能力檢定2題(含)以上。 Students are required to pass at least 2 CPE program competency tests.			

國立雲林科技大學111學年度資訊工程系碩士班 專業選修 課程流程圖

第一學年(碩一)		第二學年(碩二)	
第一學期	第二學期	第一學期	第二學期
高速網路 High-speed internet 3-0-3 高等密碼學 Advanced Cryptography 3-0-3 高等計算機圖學 Advanced Computer Graphics 3-0-3 高等計算機演算法 Advanced computer algorithm 3-0-3 高光譜影像處理技術與應用 Hyperspectral image processing technology and application 3-0-3 行動雲端運算 Mobile cloud computing 3-0-3 雲端計算與行動邊緣計算 Cloud computing and mobile edge computing 3-0-3 雲端運算與物聯網 Cloud Computing and Internet of Things 3-0-3 無線網路 Wireless network 3-0-3 無線網路與車聯網技術 Wireless network and car networking technology 3-0-3	行動計算 Mobile computing 3-0-3 通訊協定 Communication protocol 3-0-3 資料探勘 Data mining 3-0-3 人工智慧 Artificial intelligence 3-0-3 數位通訊 Digital communication 3-0-3 圖形理論 Graph theory 3-0-3 圖形識別 Pattern recognition 3-0-3 計算理論 Computational theory 3-0-3 多媒體系統 Multimedia system 3-0-3 資訊隱藏學 Information hiding 3-0-3	電腦視覺 Computer vision 3-0-3 移動規劃 Mobile planning 3-0-3 光通訊網路 Optical communication network 3-0-3 高等類神經網路 Advanced neural network 3-0-3 正交分頻多工技術 Orthogonal Frequency Division Multiplexing Technology 3-0-3 網路效能分析模擬 Network performance analysis simulation 3-0-3 網路資訊檢索與搜尋引擎 Internet information retrieval and search engine 3-0-3 嵌入式系統應用專題實作 Embedded system application project implementation 3-0-3 健康與照護管理之資訊應用 Information Application of Health and Care Management 3-0-3 人工智慧數位語音助理系統 AI Digital Voice Assistant System 3-0-3	機器人學 Robotics 3-0-3 醫學影像分析 Medical image analysis 3-0-3 網路與最佳化應用 Network and optimization applications 3-0-3 嵌入式多核心程式語言 Embedded multi-core programming language 3-0-3 排隊理論與行動通訊雲端資源管理 Queuing theory and mobile communication cloud resource management 3-0-3 進階產業實務實習(二) Advanced Industrial Internship (2) 0-6-3

企業網路安全技術 Enterprise Cyber Security Technology 3-0-3	類神經網路 Neural Network 3-0-3	暑期進階產業實務實習 Summer Advanced Industrial Internship 0-4-2
多媒體安全 Multimedia security 3-0-3	醫學影像處理 Medical image processing 3-0-3	進階產業實務實習(一) Advanced Industrial Internship (1) 0-6-3
即時作業系統 Real-time operating system 3-0-3	學術論文寫作 Academic Writing 3-0-3	
機器學習 Machine learning 3-0-3	排隊網路理論 Queuing network theory 3-0-3	
人機介面設計 Human-machine interface design 3-0-3	高等計算機網路 Higher Computer Network 3-0-3	
數位訊號處理 Digital signal processing 3-0-3	第四代行動網路 Fourth Generation Mobile Network 3-0-3	
嵌入式作業系統 Embedded operating system 3-0-3	分散式資料庫 Distributed database 3-0-3	
智慧型手持裝置效能分析 與調校工具設計 Smart handheld device performance analysis and tuning tool design 3-0-3	空間時間編碼理論 Space Time Coding Theory 3-0-3	
微型感測裝置嵌入式系統 與軟體實作 Micro-sensing device embedded system and software implementation 3-0-3	資通訊技術於災害管理之應用 Application of Information Technology in Disaster Management 3-0-3	
行動通訊技術 Mobile communication technology 3-0-3(學期異動)	基於嵌入式系統設計之生理 訊號擷取與分析 Physiological signal acquisition and analysis based on embedded system design 3-0-3 嵌入式微處理器系統 Embedded microprocessor system 3-0-3	

	室內定位技術與應用 Indoor positioning technology and application 3-0-3 資料科學 Data Science 3-0-3 5G 行動網路 5G mobile network 3-0-3 演算法設計與分析專論 Advanced Topics in the Design and Analysis of Algorithms 3-0-3 B5G 核心網路計算虛擬化與 MDP強化學習 B5G Core Network Computing, Virtualizing and MDP RL Machine Learning 3-0-3		
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備註：

- 經指導教授之同意得跨校（限資訊相關研究所）、跨所（限工程學院研究所、資管所、工管所）修課，但以二門課為限。
 With the consent of the Professor, students may take courses across schools (limited to information-related institutes) or across institutes (limited to the Institute of College of Engineering, the Institute of Asset Management, and the Institute of Industrial Management), but only two courses are allowed.
- 選修課程皆與工程科技研究所合開。
 Elective courses are offered jointly with the Graduate School of Engineering Science and Technology.
- 經指導教授之同意後，可修習暑期進階產業實務實習、進階產業實務實習(一)或進階產業實務實習(二)課程。
 With the consent of the Professor, students can take the Summer Advanced Industrial Practical Internship, Advanced Industrial Practical Internship (I) or Advanced Industrial Practical Internship (II) courses.
- 研究生不得全學年至校外實習，進階產業實務實習(一)及進階產業實務實習(二)課程，僅限修習其中一門。
 Graduate students are not allowed to practice off-campus throughout the academic year. They can only take one of the Advanced Industrial Practical Practical Internship (I) and Advanced Industrial Practical Practical Practical (II) courses.