中華大學資訊工程學系 114 級碩士班課程規劃

113 學年度第二學期第 2 次系課規會議通過(114/03/17)
113 學年度第二學期第 1 次系務會議通過(114/05/15)
113 學年度第 2 次院課規會議通過(114/05/15)
113 學年度第 2 次臨時課程規劃委員會會議通過(114/06/11)

選別 (學分/時數)	一年級		二年級	
必修 (0/2)	**書報討論 Seminar**	**書報討論 Seminar**	**書報討論 Seminar** **論文指導與研究 Thesis** **Seminar**	**書報討論 Seminar** **論文指導與研究 Thesis** **Seminar**
選修 (3/3)	高等線性代數 Advanced Linear Algebra 無人載具飛控系統與行動通訊 Control System and Mobile Communication of UAV 數位訊號處理 Digital Signal Processing 進階演算法 Advanced Computer Algorithms 無線網路 Wireless Networks 影像處理 Image Processing 電子商務 Electronic Commerce 人工智慧 Artificial Intelligence 模糊理論 Fuzzy Theory 類神經網路 Neural Networks 密碼學 Cryptography 物件導向軟體工程 Object-oriented Software Engineering 計算機圖學 Computer Graphics 科技英文閱讀與寫作 Technical Reading and Writing in English 機器學習 Machine Learning 網路安全 Network Security	多媒體系統 Multimedia Systems 資料庫管理實務 Database Administration 視訊處理 Video Processing 辨識技術 Pattern Recognition 色彩工程 Color Engineering 平行處理 Parallel Processing 嵌入式系統 Embedded System 大數據分析與應用 Big Data Analysis and Applications 深度學習 Deep Learning 高等機率與統計 Advanced Probability and Statistics	音訊處理 Digital Audio Signal Processing 演化式計算 Evolutionary Computation 專家系統 Expert Systems 電腦視覺 Computer vision 無線隨意及感測網路技術與應用 Wireless Sensor Networks 資料探勘 Data Mining 深度學習專題 Deep Learning Project	最佳化理論 Optimization Theory 語音辨識 Speech Recognition 人工智慧專論 Special Topics on Artificial Intelligence 具體數學 Concrete Mathematics 多媒體資訊擷取 Multimedia Information Retrieval 物聯網理論與實作 Internet of Things - Therory and Implementation 數位學習 Digital Learning 雲端安全 Cloud Security

畢業學分數: 24 學分(含四學期書報討論及二學期論文指導與研究)，始符合畢業資格。其他規定參照研究生修業辦法
註：1. 選修課應當學期實際情形開立。

Curriculum planning for the 114th grade master class of the Department of Information Engineering, Chunghwa University

Approved at the 2nd department meeting of academic year 113, on March 17, 2025
May 15, 2025 Passed by the Departmental meeting at its 1st meeting, spring semester, Academic Year 2025
Approved at the 2nd College Curriculum Meeting of academic year 113, on May 15, 2025
Approved at the 2nd Temporary University Curriculum Committee Meeting of academic year 113, on June 11, 2025

Sorting (credits/hour)	First grade		second grade	
Compulsory (0/2)	Seminar	Seminar	Seminar Thesis Seminar	Seminar Thesis Seminar
Elective (3/3)	Advanced Linear Algebra Control System and Mobile Communication of UAV Digital Signal Processing Advanced Computer Algorithms Wireless Networks Image Processing Electronic Commerce Artificial Intelligence Fuzzy Theory Neural Networks Cryptography Object-oriented Software Engineering Computer Graphics Technical Reading and Writing in English Machine Learning Network Security	Multimedia Systems Database Administration Video Processing Pattern Recognition Color Engineering Parallel Processing Embedded System Big Data Analysis and Applications Deep Learning Advanced Probability and Statistics	Digital Audio Signal Processing Evolutionary Computation Expert Systems Computer vision Wireless Sensor Networks Data Mining Deep Learning Project	Optimization Theory Speech Recognition Special Topics on Artificial Intelligence Concrete Mathematics Multimedia Information Retrieval Internet of Things - Therory and Implementation Digital Learning Cloud Security

Graduation credits: 24 credits (including four-semester book discussion and two-semester thesis guidance and research) are eligible for graduation.
For other regulations, please refer to the regulations for postgraduate studies. Note:

1. Elective courses should be opened according to the actual situation of the semester.