

國立高雄大學 資訊工程學系 碩士班 課程表

The Curriculum of the Master's Program,
Department of Computer Science and Information Engineering,
National University of Kaohsiung

115 學年以後(含)入學學生適用

Applicable to students admitted in the 115th academic year and thereafter (inclusive)

	一年級 Year 1		二年級 Year 2	
	第一學期 Semester 1	第二學期 Semester 2	第一學期 Semester 1	第二學期 Semester 2
選修課程 Elective Courses	書報討論 (一) Seminar (I) (1) 專題研究(一) Special Topics Studies (I) (3)	書報討論 (二) Seminar (II) (1) 專題研究(二) Special Topics Studies (II) (3)	書報討論 (三) Seminar (III) (1) 專題研究(三) Special Topics Studies (III) (3)	書報討論 (四) Seminar (IV) (1) 專題研究(四) Special Topics Studies (IV) (3)
	在學期間，每學期均需修習「專題研究」與「書報討論」課程 "Seminar" and "Special Topics Studies" must be taken every semester.			
核心選修課程 Core Elective Courses	I. 高等演算法 Advanced Computer Algorithms (3) II. 計算機結構 Computer Architecture (3) III. 高等電腦網路 Advanced Computer Networks (3)			
	三選一課程，畢業前至少須修習通過其中一門 At least one of the three courses must be passed before graduation.			
專業選修 Professional Elective Courses	物聯網(3) Internet of Things 量子計算(3) Quantum Computation 無線網路(3) Wireless Network 科技論文寫作(3) Technical Paper Writing 擴增實境(3) Augmented Reality 雲端運算(3) Cloud Computing 虛擬化技術(3) Virtualization Technology 智慧型系統(3) Intelligent Systems			

專業選修 Professional Elective Courses	電腦視覺(3) Computer Vision	進階機器學習(3) Advanced Machine Learning
	裝置端人工智慧(3) On-device artificial intelligence	深度學習(3) Deep Learning
	高等資料壓縮(3) Advanced Data Compression	巨量資料分析(3) Big Data Analytics
	醫學影像處理(3) Medical Image Processing	網路安全(3) Network Security
	即時計算機系統(3) Real-Time Systems	醫療資訊學導論(3) Introduction to Medical Informatics
	資料探勘與機器學習(3) Data Mining and Machine Learning	人工智慧與金融科技(3) Artificial Intelligence and Financial Technology
	資訊檢索與生成式人工智慧(3) Information Retrieval and Generative Artificial Intelligence	高等資料探勘(3) Advanced Data Mining
	嵌入式多核心系統與軟體(3) Embedded Multi-Core Systems and Software	高等資料庫系統(3) Advanced Database Systems
	文字與語音資料處理與應用(3) Text and Speech Data Processing and Applications	大語言模型應用(3) Applications of Large Language Models

- 畢業門檻：論文、學分數至少 28 學分，其中含選修課程（8 學分）與核心選修科目（3 學分）、專業選修（21 學分）。

Graduation Requirements: A thesis and a minimum of 28 credits, including Elective Courses (4 credits), Core Elective Courses (3 credits), and Professional Elective Courses (21 credits).