

國立勤益科技大學 113 學年度 資訊工程系 「智慧科技產業碩士專班」 (秋季班) 學分計畫表
Curriculum Planning of 2024 Master's Degree in Department of Computer Science and Information
Engineering Master's Program in Smart Technology Industry (Spring Semester)

112.10.20 系課程會議審議通過
112.10.31 系務會議審議通過
112.11.22 院課程會議審議通過
112.12.07.校課程委員會議及 112.12.21.臨時教務會議審議通過
113.02.27 系課程會議審議通過
113.02.29 系務會議審議通過
113.04.30 院課程會議審議修正通過
113.5.21.校課程委員會議及 113.6.6.臨時教務會議審議修正通過
113.12.5.校課程委員會議及 113.12.24.臨時教務會議審議修正通過

科目	Subjects	上學期		下學期	
		First Semester		Second Semester	
		學分 Credits	學時 Hour	學分 Credits	學時 Hour
必修科目(14 學分) Required Courses (10credits hours)					
第一學年 First Year					
專題研究(一)	Seminar (I)	2	2		
專題研究(二)	Seminar (II)			2	2
論文	Thesis			3	3
第二學年Second Year					
專題研究(三)	Seminar (III)	2	2		
論文	Thesis	3	3		
專題研究(四)	Seminar (IV)			2	2
專業選修科目(24 學分)Department Required Courses (24credits hours)					
第一學年 First Year					
嵌入式系統	Embedded Systems	3	3		
信號處理	Signal Processing	3	3		
信號處理程式設計	Signal Processing Program Design	3	3		
可編程矽智產設計	Programmable Silicon Smart Design	3	3		
影像處理	Image Processing	3	3		
系統性創新理論與應用	Systematic Innovation Theory and Application	3	3		
奈米科技	NanoTechnology	3	3		
物聯網理論與應用	IoT Theory and Application	3	3		
工業 4.0 實務	Industry 4.0 Practice	3	3		
工業 4.0 專論	Industry 4.0 Seminar	3	3		
科技英文	Scientific English	3	3		
光機電整合技術	Optical Machinery Integration Technology	3	3		
產業自動化技術	Industrial Automation Technology	3	3		
AI/機器學習	AI/Machine Learning	3	3		
產業經營與策略管理	Industrial Operation and Strategy Management			3	3
數位影像處理	Digital Image Processing			3	3
深度與機器學習	Deep and Machine Learning			3	3
通信網路系統	Communication Network System			3	3
數據分析與深度學習	Data Analysis and Deep Learning			3	3
物聯網通訊技術	IoT Communication Technology			3	3
網際網路系統設計專論	Internet System Design Theory			3	3
產業自動化技術	Industrial Automation Technology			3	3
介面技術專論	Interface Technology			3	3
資訊系統開發專論	Information System Development Seminar			3	3
企業經營法則	Corporate Management			3	3
產業發展佈局實務	Industrial Development Layout Practice			3	3
商業英文	Commercial English			3	3
數據分析與深度學習	Data Analysis and Deep Learning			3	3
第二學年 Second Year					
智慧機械專論	Smart Machinery Seminar	3	3		
系統性創新理論與應用	Systematic Innovation Theory and Application	3	3		
電資專利策略與管理	Electricity Patent Strategy and Management	3	3		
管理資訊系統	Manage information System	3	3		
多媒體資訊系統	Multimedia Information System	3	3		
超啟發式演算法	Metaheuristic Algorithm	3	3		
資訊應用專論	Information Application Seminar	3	3		
虛擬實境理論與應用	Virtual reality Theory and Application	3	3		
多媒體理論與應用	Multimedia Theory and Application	3	3		
機器人程式設計專論	Robot Program Design Theory	3	3		
海外研習	Overseas Study	3	3		
資通訊專案管理專論	ICT Project Management Seminar			3	3
產業管理資訊系統	Industrial Management Information System			3	3
光機電整合技術	Optical Machinery Integration Technology			3	3

雲端計算與服務	Cloud Computing and Service			3	3
高科技專利攻防	High-tech Patent Offense and Defense			3	3
伺服系統管理	Servo System Management			3	3
生產管理專論	Production Management Seminar			3	3
品質管理專論	Quality Management Seminar			3	3
資通訊專案管理	ICT Project Management			3	3
策略管理	Strategic Management			3	3
中小企業管理專論	SME Management Theory			3	3
企劃實務	Planning Practice			3	3

備註 Note：

- 畢業至少應修滿 32 學分（必修課程 14 學分，含論文 6 學分；選修 18 學分）。

Graduation should at least reach 32 credits [Compulsory 14 credits, Thesis 6 credits, and elective at least 18 credits].

- 選修本校他所課程，需經指導教授及所長同意，其學分准列入畢業學分之計算。學分數以不超過當學期總修習學分數三分之一為原則。

Choose courses from other departments of our school must be approved by the advice professor and department chair, and the credits will be included in the calculation of graduation credits. The number of credits should not exceed one-third of the total credits for the semester.

- 學業成績以一百分為滿分，七十分為及格。不及格者不得補考，必修科目應予重修。

Academic performance is based on 100 points as a perfect score and 70 points as a passing grade. Those who fail are not allowed to make up the exam, and the required subjects must be retaken.

- 研究生必須通過碩士班論文口試方准畢業。論文以技術報告或實作性論文為主、學術論文為輔。以電資研發產業技術及管理為主要方向，針對合作廠商之需求為主。畢業時依法授予工學碩士學位。

Graduate students must pass the master's thesis oral examination in order to graduate. The papers are mainly technical reports or practical papers, supplemented by academic papers. The main direction is electric power R&D industry Technology and Management, focusing on the needs of partner manufacturers. Upon graduation, a master's degree in engineering is awarded according to law.

- 本專班研究生之修業相關準則，悉依入學簽訂之培訓合約書、本所「研究生修業規則」及本校相關法規規範之。

The relevant standards for the Study of postgraduate students in this special class are strictly governed by the training contract signed upon admission, the "Graduate Study Rules" of the institute and the relevant regulations of the school.

- 學生應於申請學位考試前至「教育部臺灣學術倫理教育資源中心」網路平臺完成學術研究倫理教育課程，至少 6 小時課程。

Students need to complete the academic research ethics education course for at least 6 hours before the final defence applicaiton.

- 為因應法規變更、評鑑建議或政府計畫規定等外在因素，本系保有調整學分計畫之權利。若有修訂，將於學期開始前公告，並明確說明修訂內容、影響範圍及相關配套措施，以保障學生權益。

The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.