國立勤益科技大學 111 學年度智慧製造與資訊應用學程碩士班 學分計畫表 Curriculum Planning for 2022 Master program in Smart Manufacturing and Applied **Information Science**

科目	Subjects	上學期 First Semester		下學期 Second Semester	
		學分 Credits	學時 Hour	學分 Credits	學時 Hour
	必修科目 (8 學分) Compulsory subjects (8 credi	ts)			
	第一學年 First Year				
書報討論(一)	Seminar (I)	1	2		
書報討論(二)	Seminar (II)			1	2
H 155-4 -114 (.)	第二學年 Second Year			-	
論文	Thesis	3	3	3	3
科目	Subjects	J		學分 Credits	學時 Hour
	專業選修 (30 學分) Professional elective subjects (30	credits)			
	智慧製造領域 (Field of Smart Manufacturing)				
電腦輔助製造	Computer Aided Manufacturing	3	3	1	
製造系統模擬	Manufacturing System Simulation	3	3		
*製程能力分析	Process Capability Analysis and Application	3	3		
智慧物流	Smart Logistic	3	3		
精實生產	Lean Production	3	3		
*高等生產管理	Advanced Production Management	3	3		
*高等作業研究	Advanced Production Management Advanced Operations Research	3	3		
*自動檢測系統	Automatic inspection system	3	3		
*實驗設計	Design of Experiment	3		3	3
模糊決策分析	Fuzzy Analytic Hierarchy Process			3	3
*高等統計品質管制	Advanced Statistical Quality Control			3	3
專案管理學	Information System of Project Management			3	3
全面品質管理	Total Quality Management			3	3
*科技英文	English for Science and Technology			3	3
多準則決策分析	Multiple Criteria Decision Making			3	3
2 / 100 100 11	大數據與數據科學領域 (Field of Big data and Data S	cience)		<u></u>	
類神經網路	Neural Network	3	3		
*資料探勘	Data Mining	3	3		
人工智慧導論	Introduction of Artificial Intelligence	3	3		
統計分析與資料科學	Statistical Analysis and Data Science	3	3		
*機器學習	machine learning	3	3		
*物聯網應用與實務	Application and Practice of IoT			3	3
*巨量資料分析	Big Data Analytics			3	3
進化式演算法	Evolutionary algorithms			3	3
*多媒體與科技應用	Multimedia Technology Applications			3	3
*網路可靠度	Network Reliability			3	3
資訊系統開發與管理	Development and Management of Information system			3	3
研究方法	Research Method			3	3

畢業至少應修38學分(書報討論2學分、碩士論文6學分、核心選修6學分、專業選修24學分)。

Before graduation, each student should complete at least 38 credits, including 8 required credits (Thesis 6 credits and Seminar 2 credits) and 30

學生於畢業前須修過「學術研究倫理教育課程」必修 0 學分(6 小時)課程。

Before graduation, each student should complete Academic Research Ethics Education Course, which is 6hours required course with 0 credit.

註記「*」為全英文授課 Remarks"*" are all taught in English.

110 學年度入學適用。

The regulation shall be applied starting 2021.

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 application.

Before graduation, each student should complete at least 58 credits, including 8 required credits (Tinesis 6 credits and Schinhai Zeredits) and 50 elective credits (Fundamental elective 6 credits and Professional elective 24 credits). 核心選修課程為:「高等生產管理」、「資料採勘」、「物聯網應用與實務」與「實驗設計」。
Fundamental elective subjects include: 「Advanced Production Management」,「Data Mining」,「Application and Practice of IoT」,「Design