國立勤益科技大學114學年度進修部碩士在職專班
工業工程與管理系學分計畫表

National Chin-Yi University of Technology Continuing Education Division
Curriculum for 2025 In-Service Master Program Department of Industrial Engineering and Management

科目	Courses	上學期First Semester			下學期Second Semester		
		學分 Credit	正課 Lecture	實習 Internship	學分 Credit	正課 Lecture	實習 Internship
共同必修科目(8學分)General Required Courses(8credits hours)							
第一學年First Year							
書報討論	Seminar	1	1	0			
書報討論	Seminar				1	1	0
第二學年Second Year							
論文	Thesis	3	3	0			
論文	Thesis				3	3	0
專業選修科目Department Electives Courses							
實驗設計	Design of Experiment	3	3	0			
科技管理	Management of Technology	3	3	0			
自動檢測系統	Automatic Inspection System	3	3	0			
財務管理	Financial Management	3	3	0			
生產規劃與排程	Production Planning & Scheduling	3	3	0			
高等作業研究	Advanced Operations Research	3	3	0			
產品協同設計	Product Collaborative Design	3	3	0			
知識管理	Knowledge Management	3	3	0			
全球運籌管理	Global Logistics Management	3	3	0			
高等人因工程	Advanced Human Factors	3	3	0			
電腦整合製造	Computer-Integrated Manufacturing	3	3	0			
高等工程經濟	Advanced Engineering Economy	3	3	0			
類神經網路	Neural Networks	3	3	0			
高等統計學	Advanced Statistics	3	3	0			
安全工程	Safety Engineering	3	3	0			
進化式演算法	Evolutionary Algorithms	3	3	0			
產業電子化專題	Special Topics on E-Business	3	3	0			
多目標規劃	Multiobjective Optimization	3	3	0			
企業策略與競爭分析	Strategic and Competitive Analysis for Enterprise	3	3	0			
限制理論實務與應用	Theory of Constraints Practice and Application	3	3	0			
高等生產管理	Advanced Production Management	3	3	0			
管理經濟	Managerial Economics	3	3	0			
海外研習	Overseas Study	3	3	0			
研究技巧	Research Techniques	3	3	0			
電腦圖學理論與應用	Computer Graphics Theory and Applications	3	3	0			
人類訊息處理	Human Information Processing	3	3	0			
深度學習	Deep Learning	3	3	0			
高等品質管理	Advanced Quality Management				3	3	0
品質工程	Quality Engineering				3	3	0
企業資源規劃	Enterprise Resource Planning				3	3	0
產品生命週期管理	Product Lifecycle Management				3	3	0
國際品質保證	International Quality Assurance				3	3	0
績效評估方法	Performance Evaluation Method				3	3	0
經營診斷與管理	Business Diagnosis				3	3	0
高等統計製程管制	Advanced Statistics Process Control				3	3	0
多變量分析	Multivariate Analysis				3	3	0
最佳化演算法	Optimization				3	3	0
系統模擬	System Simulation				3	3	0
資料探勘技術與應用	Data Mining Techniques and Applications				3	3	0
創業與創新	Entrepreneurship and Innovation				3	3	0
供應鏈管理	Supply Chain Management				3	3	0
人機介面	Human and Computer Interface				3	3	0
全面品質管理	Total Quality Management				3	3	0
先進產業科技	Advanced Industrial Technology				3	3	0
投資管理	Investment Management				3	3	0
模糊決策分析	Fuzzy Analytic Hierarchy Process				3	3	0
風險危害評估	Risk and Hazard Assessment				3	3	0
專利與創新發明	Patent and Invention Innovation				3	3	0
智慧製造與管理	Intelligent Manufacturing and Management				3	3	0

						3	3	0
創新理論及其應用	Innovation Theory and Its Application					3	3	0
獨立研究	Independent Study					3	3	0
商務企劃管理	Business Planning and Management					3	3	0
精實生產系統	Lean Production System					3	3	0
中國式管理策略	Chinese Approach to Management					3	3	0
人因測試與評估	Ergonomic Testing and Evaluation					3	3	0
溫室氣體盤查管理實務	Greenhouse Gas Verify Management Practice					3	3	0

備註Note:

一、 畢業至少應修滿38學分【必修8學分(含論文6學分、書報討論2學分)，選修至少30分】，選修學分至少於本系(所)選修21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 elective credits (at least 21 credits should be completed in department elective courses).

二、 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.

三、 非工業工程與管理類報考之新生須於大學部補修生產管理或工業工程與管理導論任一科，及格標準分數為70分，但不列入畢業學分內。
Freshmen who apply for non-industrial engineering and management must apply for reimbursement in the Department of Production Management or Introduction to Industrial Engineering and Management. The passing standard score is 70 but not included in the graduation credit.

四、 通路策略與管理(流管)、企業資源規劃(資管)、全面品質管理(工管)、財務管理(企管)等課程為管理學院共同選修課程。
Courses such as Strategic Marketing Channel Management, Enterprise Resource Planning, Total Quality Management and Financial Management are general electives courses for the College of Management.

五、 課程名稱前有標示「△」符號者，為「程式設計課程」。
Courses with a "△" refers to an application design course.

六、 課程名稱前有標示「●」符號者，為「職能專業課程」。
Courses with a "●" refer to a professional competence course.

七、 課程名稱前有標示「AI」符號者，為「人工智慧相關課程」。
Courses with an "AI" refer to an artificial intelligence related course.

八、 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.