

元智大學機械工程學系「人工智慧」領域專長學程科目規劃表

Yuan Ze University Department of Mechanical Engineering

“Artificial Intelligence” Field Specialty Program Course Planning Table

(115學年度申請適用)

(For students applied in Academic Year 2026)

115.04.29 一一四學年度第七次教務會議通過

Passed by the 7th Academic Affairs Meeting, Academic Year 2025, on April 29, 2026

一、教學目標 **Teaching Objectives:**

本「人工智慧」領域專長學程以機械工程系學生之專業背景為基礎，結合程式設計、人工智慧理論與機器人系統應用，培養學生將人工智慧技術導入工程系統與機械相關應用之能力，使學生具備工程導向之人工智慧思維與實作基礎。

The “Artificial Intelligence” Field Specialty Program is designed based on the academic background of mechanical engineering students. By integrating programming, AI theories, and robotic system applications, the program aims to develop students’ ability to apply artificial intelligence techniques to engineering systems and mechanical-related applications, fostering an engineering-oriented AI mindset and practical foundation.

二、課程設計 **Curriculum Design:**

(一)基礎課程: Fundamental Courses

課號 Course ID	課程名稱 Course Name	學分 Credit(s)	開課系所 Department Offered the Present Course(s)	備註 Remarks
EG011	AI程式設計(一) Fundamentals of AI Programming (I)	2	工程學院 College of Engineering	
EG014	AI程式設計(二) Fundamentals of AI Programming (II)	2	工程學院 College of Engineering	

(二)專業課程: Professional Courses

課號 Course ID	課程名稱 Course Name	學分 Credit(s)	開課系所 Department Offered the Present Course(s)	備註 Remarks
ME384	人工智慧概論 Introduction to Artificial Intelligence	3	機械系 Department of Mechanical Engineering	

(三)核心課程: Core Courses

課號 Course ID	課程名稱 Course Name	學分 Credit(s)	開課系所 Department Offered the	備註 Remarks
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			Present Course(s)	
ME382	機器人作業系統 Robot Operating System	3	機械系 Department of Mechanical Engineering	
ME416	量子工程:原理與人工智慧 應用	3	機械系 Department of Mechanical Engineering	

三、學程證書授予標準Certificate Award Criteria：

本系生修畢本學程不發證書；外系生修畢全部課程可申請證書。

Certificate Award Criteria: Students of this department who complete the program will not be issued a certificate; students from other departments who complete all required courses may apply for a certificate.

四、領域別Fields of Study: 人工智慧 Artificial Intelligence

五、學程召集人 Program Director: 謝建興 Jiann-Shing Shieh

六、負責規劃單位 Responsible Planning Unit:

機械工程學系 Department of Mechanical Engineering