

淡江大學 115學年度 機械與機電工程學系博士班 入學新生課程規劃表
Curriculums of the Department of Mechanical and Electro-Mechanical Engineering
Doctoral Program at Tamkang University
(Applicable to Newly-Admitted Students for the 2026 Academic Year)

科目名稱 /Subjects		學分 Credits	第1學年		第2學年		第3學年		第4學年		備註 Remarks	
			1st Academic Year		2nd Academic Year		3rd Academic Year		4th Academic Year			
			第1學期	第2學期	第1學期	第2學期	第1學期	第2學期	第1學期	第2學期		
			1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester		
■本系必修課程：4學分 Required Courses：4 credits	書報討論（一） Seminar(I)	1	1									
	書報討論（二） Seminar(II)	1		1								
	書報討論（三） Seminar(III)	1			1							
	書報討論（四） Seminar(IV)	1				1						
	資格考試 Qualifying Exam	0				0						
	論文 Thesis	0				0						
	■本系系選修課程：至少須修14學分以上。 Department Elective Courses: A minimum of 14 credits must be completed.	進階能源轉換 Advanced Energy Conversion	3	3								附註： 系選修課程之開設科目，將依據本校規定可開課學分數開課。不是每個科目都會開課。 Note: The elective courses offered by the department will be arranged based on the number of credits permitted under the university' s regulations. Not all listed courses will necessarily be offered.
流體機械及冷凍空調實務 Practice of Turbomachinery and Air		3	3									
企業研發實務 Practice of Business Research and Development		3	3									
結合實驗設計與基因演算法於製程最佳化設計 Combining Experimental Design and Genetic Algorithms for Process		3	3									
超臨界二氧化碳在有機朗特循環的發電最佳化 Power Generation Optimization with Supercritical Carbon Dioxide in the Organic		3	3									
AI陸海空水下多介質無人載具設計製造技術 AI-Powered Design and Manufacturing Technology for Multi-Media Unmanned Vehicles Across Land, Sea, Air, and Underwater		3	3									
熱管科學與技術 Heat Pipe Science and Technology		3		3								
感測器與驅動器 Sensors and Actuators		3		3								
產業與城市低碳化與智慧化之設計與建置 Design and Construction of Low-Carbon and Smart Industries and Cities		3		3								
磁浮軸承ORC發電機設計、開發與應用 Design, Development and Application of Magnetic Levitation (mag-lev) Bearing ORC Generator		3		3								
AI陸海空水下多介質無人載具協同與集群 AI-Enabled Multi-Domain Unmanned Vehicle Cooperation and Swarm Systems (Air, Land, Sea,		3		3								
雷射製造技術 Laser Based Manufacturing		1		1								

(1)必修科目總學分數：4學分

(1)Total Credits for Required Courses: 4 credits

(2)最低應修本系選修科目總學分數：14學分

(2)Minimum Credits Required for Departmental Elective Courses: 14 credits

畢業總學分數：18學分

Total Number of Credits Required for Graduation: 18 credits