

淡江大學 114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 2025 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21學分以上。 Department Elective Courses: A minimum of 21 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								
	工業4.0理論的設計與應用 Design and Application of Industry 4.0 Theory	3	3								
	廢棄物氣化發電系統最佳化開發與再利用 Optimal Development And Reuse of Waste Gasification Power Generation System	3	3								
	無人飛行器網路、通訊、導航與反制 Unmanned Aerial Vehicle Networks, Communications, Navigation and Counterattack	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							
	海洋能最佳化設計與開發 Ocean Energy Optimization Design and Development	3		3							
	生成式AI與自然語言處理 Generative AI and Natural Language Processing	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