淡江大學 113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 2024 Academic Year)

科目名稱 /Subjects		學分 Credits	第1學年 1st Academic Year		第2學年 2nd Academic Year		第3學年 3rd Academic Year		第4學年 4th Academic Year		備註 Remarks
			第1學期 1st Semester	第2學期 2nd Semester	第1學期 1st Semester	第2學期 2nd Semester	第1學期 1st Semester	第2學期 2nd Semester	第1學期 1st Semester	第2學期 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								
	地熱與工業餘熱最佳化開發及再利用 Optimal Development and Reuse of Geothermal and Industrial Waste Heat	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								
	進階熱傳應用數值分析 Advanced Practical Based Computational Fluid Dynamics for Heat Transfer Applications	1	1								
	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							
	綠電與綠能最佳化設計與建置 Green Power and Green Energy Optimal Design and Construction	3		3							
	小樣本建模、預測及檢驗方法之設計與應用 Design and Application of Small Sample Modeling, Prediction and Testing Methods	3		3							
	海洋能最佳化設計與開發 Ocean Energy Optimization Design and Development	3		3							
	智慧系統晶片設計要論 essentials of SOC Design	1		1							
	熱傳應用數值分析practical Based Computational Fluid Dynamics for Heat Transfer Applications	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：21學分
(2)Minimum Credits Required for Departmental Elective Courses: 21 credits

畢業總學分數：25學分
Total Number of Credits Required for Graduation: 25 credits