淡江大學 112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 2023 Academic Year)

	(Аррттсавте	to ne					ne 2023 Academ		1		T
科目名稱 /Subjects			第1學年		第2學年		第3學年		第4學年		備註 Remarks
		學分 Credits	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	2nd	1st	2nd	1st	2nd	1st	2nd	. Reliai KS
			Semester	Semester	Semester	Semester	Semester	Semester	Semester	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	0				0					
	Qualifying Exam 論文	0				0					
	Thesis	U				0					
■本系系選修課程:至少須修21	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.
學分以上。	感測原理與時頻譜分析	_	_								
Department Elective	Principles of Sensors and Time-Frequency Analysis	3	3								
Courses: A	高解析黎曼算則與應用										
minimum of 21 credits must	High Resolution Riemann Solver and Applications	3	3								
be completed.	流體機械及冷凍空調實務	2									
	Practice of Turbomachinery and Air	3	3								
	企業研發實務 Practice of Business	3	3								
	Research and Development 高超音速和高溫氣體動力學										
	Hypersonic and High Temperature Gas Dynamics	3	3								
	雷射銲接積層製造簡介 Introduction to Laser Welding Additive	1	1								
	熱管科學與技術										
	Heat Pipe Science and	3		3							
	Technology 感測器與驅動器	3		3							
	Sensors and Actuators 雨相流數值方法專論										
	Special Topic in The Computational Modelling of Two-Phase Flows	3		3							
	多相流體力學 Multiphase Flow Dynamics	3		3							
	奈米生醫光子學應用	1		1							
	nanobiophotonics: 熱傳應用數值分析practical										
	Based Computational Fluid Dynamics For Heat Transfer Applications	1		1							
	綠電與綠能最佳化設計與建置 Green Power and Green Energy Optimal Design and Construction	3		3							
	無人機系統設計與開發 Unmanned Aerial Vehicle System Design and	3		3							

(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