

Curriculum Plan for the Master Program of Mechatronics Department of Mechanical Engineering Taipei City University of Science and Technology
(applicable to 110-114 semester year admission)

類別 Category	科目名稱 subject name	第一學年 1st semester year				科目名稱 subject name	第二學年 2nd semester year			
		上學期 fall		下學期 spring			上學期 fall		下學期 spring	
		學分 credit	時數 hour	學分 credit	時數 hour		學分 credit	時數 hour	學分 credit	時數 hour
專業必修 Required for Majors	書報討論(一) Seminar I	2	3			論文 Thesis	3	3	3	3
	書報討論(二) Seminar II			2	3					
	類別學分小計 Subtotal of Credits	2	3	2	3	類別學分小計 Subtotal of Credits	3	3	3	3
專業選修 professional electives	機電科技應用 Electromechanical Technology Application	3	3			科技論文選讀與撰寫 Reading and Writing for Technical Papers	3	3		
	智慧型控制 Intelligent Control and Its Applications	3	3			高等機器人學 Advanced Robotics	3	3		
	新興能源 New Emerging Energy Source	3	3			趨勢科技 Advanced Technology	3	3		
	機電學 Mechatronics	3	3			電子冷卻技術與應用 Electronics Cooling Applications	3	3		
	應用數值分析 Applied Numerical Analysis	3	3			液壓伺服控制 Hydraulic Servo Control	3	3		
	數位影像處理 Digital Image Processing	3	3			最佳控制 Optimal Control			3	3
	燃料電池特論 Special Topics on Fuel Cells			3	3	工具機動態分析 Machine Tool Dynamic Analysis			3	3
	實驗設計法 Design and Analysis of Experiments			3	3	最佳化設計 Optimal Design			3	3
	材料特性分析 Materials Characterization			3	3					
	進階電腦輔助工程分析 Advanced Computer Aided Engineering Analysis			3	3					
	尖端材料 Advanced Materials			3	3					
	嵌入式系統程式設計 Embedded System Programming			3	3					
	感測元件與應用 Sensing Components and Applications			3	3					
	有限元素分析 Finite Element Analysis			3	3					
	APP程式設計與開發 APP Program Design and Development			3	3					
	類別學分小計 Subtotal of Credits	18	18	27	27	類別學分小計 Subtotal of Credits	15	15	9	9
備註 remark	碩士論文Master's Thesis：6	1.每學期修課之學分數不得少於3學分或多於13學分。 2.論文在第二學年上下學期各必修3學分，且論文口試通過後一次授予6學分成績(延修同學論文為必修，論文口試通過後一次授予6學分成績)。 3.論文的時數以實際選修的人數為基準。 4.其餘未說明之處，依學校規則辦理。 1.The number of credits taken each semester shall not be less than 3 credits nor more than 13 credits. 2.The thesis is a required course of 3 credits in each semester of the second academic year. After passing the oral defense, a total of 6 credits will be granted at once. (For extended-study students, the thesis remains a required course, and 6 credits will be granted upon passing the oral defense.) 3.The hours of the thesis shall be determined based on the actual number of enrolled students. 4.Matters not specified herein shall be handled in accordance with the university regulations.								
	專業必修Required Professional Courses：4									
	專業選修Elective Professional Courses：20									
	畢業最低學分數Minimum Credits for Graduation：30									