中信科技大學 進修部
二年制 機械工程系課程規劃表
（適用115學年度入學）

CTBC University of Science and Technology
Curriculum of Mechanical Engineering Department
for Two-Year Bachelor's Degree Program -Night Division (Effective from Fall 2026)

科目名稱 Subject		第一學年1st School Year		第二學年2nd School Year	
		上學期 1st semester (學分/時數) (Credits/Hours)	下學期 2nd semester (學分/時數) (Credits/Hours)	上學期 1st semester (學分/時數) (Credits/Hours)	下學期 2nd semester (學分/時數) (Credits/Hours)
共同必修 General Required Courses	應用英文(1)(2) Applied English(1)(2)	2/ 2	2/ 2		
	通識課程(1)(2)(3)(4) General Studies(1)(2)(3)(4)	2/ 2	2/ 2	2/ 2	2/ 2
	小計Subtotal	4/ 4	4/ 4	2/ 2	2/ 2
專業必修 Professional Required Courses	工程數學 Engineering Mathematics	2/ 2			
	動力學 Dynamics	2/ 2			
	程式設計 Computer Programming	2/ 2			
	AI輔助程式設計 AI-assisted programming	2/ 2			
	高等電腦輔助繪圖 Advanced Computer Aided Drawing	2/ 2			
	AI輔助電腦繪圖 AI Computer-Aided Drawing	2/ 2			
	工程熱力學 Engineering Thermodynamics		2/ 2		
	可程式控制原理 Programmable Logic Controller Principle		2/ 2		
	可程式控制實習 Programmable Logic Controller Practice		2/ 2		
	材料力學 Mechanics of Materials		2/ 2		
	感測器原理與應用 Application and Theory of Sensor		2/ 2		
	流體力學 Fluid Mechanics			2/ 2	
	自動控制 Automatic Control			2/ 2	
	機械元件設計與原理 Design and Principle of Machine Elements			2/ 2	
	半導體概論 Introduction of Semiconductor			2/ 2	
	數控工具機 Computer Numerical Control Tool Machine				2/ 2
	數控工具機實習 Computer Numerical Control Machine Tools Practice				2/ 2
	機械製造實務 Practice of Manufacturing Engineering				2/ 2
	小計Subtotal	12/ 12	10/ 10	8/ 8	6/ 6
	減碳實務 Carbon reduction practices	2/ 2			
	精密量測 Precision Measurement	2/ 2			
	熱傳學 Heat Transfer		2/ 2		

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專業選修 Professional Elective Courses	氣液壓學 Pneumatics and Hydraulics		2/ 2		
	綠色循環科技 Green circular technology		2/ 2		
	汽車修護實習 Practice of Automobile Maintenance			2/ 2	
	能源工程 Energy Engineering			2/ 2	
	物理冶金 Physical Metallurgy			2/ 2	
	專利與工程創新 Patents and Engineering Innovation			2/ 2	
	新能源概論 Introduction of New Energy			2/ 2	
	熱處理 Heat Treatment				2/ 2
	粉末冶金 Powder Metallurgy				2/ 2
	機電整合實務 Mechatronic Practice				2/ 2
	表面處理 Surface Treatment				2/ 2
	微控器應用與實習 Microcontroller Application and Practice				2/ 2
	太陽能工程 Solar Energy Engineering				2/ 2
	冷凍空調原理 Introduction of Refrigeration and Air Condition				2/ 2
擬開最低專業選修學分 Proposed Minimum Professional Elective Credits		2/ 2	4/ 4	8/ 8	10/ 10
合計Total		18/ 18	18/ 18	18/ 18	18/ 18

備註 Note	
	115年07月22日 校課程發展委員會會議通過Amended Date： 2026-07-22
	一、畢業總學分至少72分： The total number of credits completed to be eligible to graduate shall not be less than 72 credits. 1.共同必修12學分；專業必修36學分；專業選修至少18學分。 General Required Courses:12 credits. Professional Required Courses:36 credits. Professional Elective Courses:Not less than18 credits. 2.一般選修至多6學分(開放學生自由選修本系或外系課程)。 The general elective credits shall be up to 6 credits. (Open for students to freely choose courses within their own or other departments) 二、畢業門檻：Graduation threshold 1.學生於修業年限內應修畢「共同必修」、「專業必修」、「專業選修(含一般選修)」共計72學分。 Students are required to complete a total of 72 credits of " General Required Courses", "Professional Required Courses", and "Professional Elective Courses" ("General Elective Course" included) within their academic years.