

中信科技大學 四年制 機械工程系 進修部 課程規劃表(適用114學年度入學)
 CTBC University of Science and Technology
 Curriculum of Mechanical Engineering Department
 for Four-Year Bachelor's Degree Program-Night Division (Effective from Fall 2025)

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科目名稱 Subject			第一學年 1st school year				第二學年 2nd school year				第三學年 3rd school year				第四學年 4th school year			
			上學期 1st semester		下學期 2nd semester		上學期 1st semester		下學期 2nd semester		上學期 1st semester		下學期 2nd semester		上學期 1st semester		下學期 2nd semester	
			學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours	學分 Credits	時數 Hours
	系必修課程 Required Department Courses	AI輔助機械製造 AI-Aided Manufacturing Processes						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										
		可程式控制實習 Programmable Logic Controller Practice								2/ 2								
		工程材料與實驗 Engineering Materials and Test								2/ 2								
		氣液壓學 Pneumatics and Hydraulics									2/ 2							
		氣壓實習 Pneumatics Practice									2/ 2							
		實務專題(1)(2)(3)(4) Project(1)(2)(3)(4)					2/ 2		2/ 2		2/ 2		2/ 2					
		機電整合 Mechatronic												2/ 2				
		機電整合實習 Mechatronic Practice												2/ 2				
		小 計	0/ 0		0/ 0		8/ 8		8/ 8		6/ 6		6/ 6		4/ 4		0/ 0	
		系專業選修 課程 Professional Elective Courses	工程力學 Engineering Mechanics					2/ 2										
			飛機維修概論 Aircraft Maintenance					2/ 2										
			電腦輔助立體製圖 Computer-Aided 3D Drawing							2/ 2								
			機械加工實習 Machine Work Practice							2/ 2								
無人飛機概論 Introduction of UAV								2/ 2										
飛機系統實務 Aircraft System Practices								2/ 2										
工程數學 Engineering Mathematics								2/ 2										
材料力學 Mechanics of Materials								2/ 2										
熱力學 Thermodynamics								2/ 2										
機構學 Mechanism										2/ 2								
機械設計 Mechanical Design										2/ 2								
流體力學 Fluid Mechanics										2/ 2								
微控器應用與實習 Microcontroller Application and Practice										2/ 2								
表面處理 Surface Treatment										2/ 2								
能源工程 Energy Engineering												2/ 2						

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	冷凍空調 Refrigeration and Air Conditioning											2/ 2					
	模具設計實務 Mold Design Practice											2/ 2					
	自動控制 Automatic Control											2/ 2					
	半導體製程 Introduction of Semiconductor Process											2/ 2					
	材料機械性質 Mechanical property of Materials													2/ 2			
	粉末冶金 Powder Metallurgy													2/ 2			
	品質管制 Quality Control													2/ 2			
	智慧生活應用與實習 Application and Practice of Smart life													2/ 2			
	智慧製造技術 Intelligent Manufacturing Technology													2/ 2			
	熱流實驗 Experimentation of thTrmal-Fluid Engineering													2/ 2			
	電腦監控應用與實習 PC-Based Control Application and Practice													2/ 2			
	半導體廠務 Semiconductor Factory Works														2/ 2		
	電動車 Electric Vehicle														2/ 2		
	專利與工程創新 Patents and Engineering Innovation														2/ 2		
	田口式實驗法 Taguchi Experimental Methods														2/ 2		
	空調工程 Air Conditioning Engineering and Design														2/ 2		
	太陽能工程 Solar Energy Engineering														2/ 2		
	陶瓷製程 Process of Ceranics														2/ 2		
	射出成型實務 Injection Molding Technology and Practice														2/ 2		
	模流分析實務 Molding Flow Analysis and Practice														2/ 2		
		小 計	0/ 0		0/ 0		4/ 4		14/ 14		10/ 10		10/ 10		14/ 14		18/ 18
擬開最低選修學分 Proposed Minimum Elective Credits	合 計 Total	0/ 0		0/ 0		2/ 2		6/ 6		8/ 8		8/ 8		10/ 10		12/ 12	
	114年07月08日 校課程發展委員會會議通過Amended Date：2025-07-08																

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備註

一、畢業總學分至少128學分：
 The total number of credits completed to be eligible to graduate shall not be less than 128 credits.
 1.校訂必修36學分(含通識基礎必修18學分、通識博雅必修18學分)。
 The stipulated compulsory credits shall be 36 credits.(18 credits for required general education courses, and 18 credits for required liberal arts courses.)
 2.專業必修46學分(院必修14學分、系必修32學分)。
 The professional compulsory credits shall be 46 credits.(14 credits for required college courses, and 32 credits for required department courses.)
 3.系專業選修至少34學分。
 The professional elective credits shall be not less than 34 credits.
 4.跨系選修至多12學分。
 The number of inter-department elective credits shall be not less than 12 credits.
 ※「微學分課程」最多採計12學分。
 The number of 'Micro-Credit Courses' credits shall be up to 12credits.
 二、畢業門檻 Graduation Threshold：
 1.學生於修業年限內，應修畢「校訂必修」、「專業必修」、「系專業選修」、「跨系選修」共計128學分。
 Students are required to complete a total of 128 credits of "Stipulated Compulsory Course", "Professional Compulsory Course", "Department Professional Elective Course", and "Inter-College Elective Courses " within their academic years.
 三、校訂課程 Stipulated Courses：
 1.校訂課程不須依先後順序修課，不得互抵者，包括「中文閱讀與表達(1)(2)、英文聽力與閱讀(1)(2)、體育(1)(2)(3)」課程。
 Stipulated courses are not required to be taken in sequence and the credits shall not be mutually transferred, including 「Chinese Reading and Expression(1)(2), English listening and reading (1)(2), and physical education (1)(2)(3)」 courses.
 2.校訂課程不須依先後順序修課，得互抵者，包括「服務教育與大學社會責任(1)(2)」、「健康生活領域」、「跨域探索領域(1)(2)(3)(4)(5)(6)」、「生命與永續領域」課程。
 Stipulated courses are not required to be taken in sequence, and those that may be mutually substituted include 「Service Education and University Social Responsibility (1)(2)」, 「Health and Life category」, 「Liberal Arts and Interdisciplinary Learning category (1)(2)(3)(4)(5)(6)」, and 「Life and Sustainability category」 courses.
 四、專業課程 Professional Courses：
 1.「實務專題(1)(2)(3)(4)」課程應依先後順序修課，得互抵。
 「Project(1)(2)(3)(4)」 shall be taken in sequence and may complement each other.