

中信科技大學 進修部
 二年制 機械工程系課程規劃表
 (適用113學年度入學)

CTBC University of Technology Curriculum of Mechanical Engineering Department
 for Two-Year Bachelor's Degree Program -Night Division (Effective from Fall 2024)

| 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 | 4/ 4 | | | |
| | 高等電腦輔助繪圖 Advanced Computer Aided Drawing | 4/ 4 | | | |
| | 工程熱力學 Engineering Thermodynamics | | 2/ 2 | | |
| | 可程式控制實習 Programmable Logic Controller Practice | | 4/ 4 | | |
| | 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 | |
| | 數控工具機實務 Practice of Computer Numerical Control Tool Machine | | | | 4/ 4 |
| | 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 | | | 4/ 4 | |
| | 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 | | | | 4/ 4 |
| | 微控器應用與實習 Microcontroller Application and Practice | | | | 4/ 4 |
| | 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 | 113年07月30日 校課程發展委員會會議通過Amended Date：2024-07-30 | | | | |
| | 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. | | | | |