建國科技大學 日間部 113學年度入學 四年制 電子工程系 開課表 Curriculum for Department of Electrical Engineering, 2024, Day School, Chienkuo Technology University

| | | | 一年級Freshm | an an | — | — | | 二年級Sophm | ore | | | | 三年級Junior | | | | | 四年級Senior | | | | - 1 | | |
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| | 1 | | 國文 | Credit | + | +- | +- | 職場英文 | Credi | _ | Credit | Hour | 博雅(一) | Credit | Hour | Credit | Hour | | Credit | Hour (| Credit | Hour C | redit Hour | |
| 共 | | | Chinese | 2 | 2 | 2 | 2 | Workplace English | 2 | 2 | | | Libral Arts (I) | 2 | 2 | | | | \sqcup | _ | | _ | | |
| | | 通 | 英文 English | 2 | 2 | 2 | 2 | 歷史與人生 Historiography & Life | 2 | 2 | | | 博雅(二) Libral Arts (II) | 2 | 2 | | | | | | | | | |
| | 诚 | | 運動與健康(一)(二) Exercise and Health(一)(二) | 2 | 2 | 2 | 2 | 公民社會 Civil Society | | | 2 | 2 | 博雅(三) Libral Arts (III) | | | 2 | 2 | | | | | | | |
| | Gener | al Education | 藝術入門 The Gateway to Arts | | | 2 | 2 | | | | | | 博雅(四) Libral Arts (IV) | | | 2 | 2 | | | | | | | |
| 多必 | | | 小計total | 6 | 6 | 8 | 8 | 小計total | 4 | 4 | 2 | 2 | 小計total | 4 | 4 | 4 | 4 | 小計total | 0 | 0 | | | 28 28 | |
| 修 Common Required | | | 基礎數學 Foundation mathematic: | 3 | 3 | | | | | | | | | | | | | | | | | | | |
| | | * | 化學 Chemistry | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | 7 | | |
| | | 葉 基 | 物理 | 3 | 3 | 3 | 3 | | 1 | | | | | | | | | | | h | | 7 | | |
| | ## Professional Basics | | Physics 微積分 | Ť | Ť | 3 | 3 | | | | | | | | | | | | | - | | - | | |
| | | | Calculus | 8 | 8 | 8 | 8 | d about | 0 | 0 | 0 | 0 | l ake-e-l | 0 | 0 | 0 | 0 | A MALLEL I | 0 | 0 | 0 | 0 | 16 16 | |
| | | | 小計total 数位邏輯與實習 | 3 | 4 | 8 | 8 | 小計total 電子學(−)(二) | 3 | 3 | 3 | 3 | 小計total 專題製作(一)(二) | 1 | 2 | 1 | 2 | 小計total | U | U | U | 0 | 16 16 | |
| | | | Digital logic and experimental | 3 | + | ₩ | - | Electronics(1)(2) | 3 | 3 | 3 | 3 | Graduation Projects(1)(2) 半導體概論與實習 | 1 | - 2 | 1 | 2 | | | | | - | | |
| | | | 計算機概論 Introduction to Computer Science | 3 | 3 | | | 電子實習(一)(二) Electronics Practicum(1)(2) | 2 | 3 | 2 | 3 | practicum and Introduction to Semiconductors | 3 | 4 | | | | | | | | | |
| | | | 印刷電路板製作實習 | 2 | 3 | T | + | 電路學(一) | 3 | 3 | | | 科技英文 | | | 2 | 2 | | t | T | | _ | | |
| | 專業 | | PCB Design and Manufacturing Lal 電腦軟體應用 | 1 | ╁ | H | ╁ | Electronic Circuits (1) 微算機應用與實習(一)(二) | 1 | <u> </u> | | | Technology Englist 電子科技創意 | | | | | | H | _ | _ | \dashv | | |
| | 必 修 | | Application of computer software | 1 | 2 | | | Microcomputer Applications and Practicum (1)(2) | 3 | 4 | 3 | 4 | Electronic-technology innovation | | | 3 | 3 | | | | | | | |
| | Professional R | Required | 計算機程式 Computer Programming | | | 2 | 3 | 光電工程與實習 Photonic Engineering and Experiment | | | 3 | 4 | | | | | | | | | | | | |
| | | | 數位系統設計與實習 | | T | 3 | 4 | 物件導向程式設計 | | | 3 | 3 | | | | | | | t | T | | _ | | |
| | | | Digital Systems Design and Laboratory | \vdash | + | Ť | + | Object-Oriented Programming | \vdash | + | Ė | Ě | | | \vdash | | ┢ | | H | | | \dashv | | |
| | | | 小計total | 9 | 12 | 5 | 7 | 小計total | 11 | 13 | 14 | 17 | 小計total | 4 | 6 | 6 | 7 | 小計total | 0 | 0 | 0 | 0 | 49 62 | |
| | | 必修合 | t+ Total | 23 | 26 | 21 | 23 | ., ., | 15 | 17 | 16 | 19 | | 8 | 10 | 10 | 11 | *** | 0 | 0 | 0 | _ | 93 106 | |
| | | | | | Т | Т | T | 工程數學(必選) | 2 | 2 | Ė | Ė | 技能實務訓練(必選) | 3 | 4 | | П | 工業安全與衛生 | 3 | 3 | | 1 | | |
| | | | ——— | + | + | \vdash | + | Engineering Mathematics(Required 電路學(二) | \vdash | t | H | H | Practical technique training(Required) 電子學(三) | | Н | | H | Industrial Safety & Health 智慧財產與專利申請實務 | | | | \dashv | | |
| | | 基礎 | | 1 | 1 | 1 | 1 | 電路学(二) Electronic Circuits (2) | L | L | 3 | 3 | モナザ(三) Electronics(三) | 3 | 3 | _ | L | Intellectual Property and The Practice of Patent Application | 3 | 3 | _ | [| | |
| | | undation | | | Г | | 1 | 讯號與系統 Signals and System: | | | 3 | 3 | 校外實習 Industrial practice | 2 | 2 | | | 工業電子與實習 Industrial Electronics Lab | 3 | 4 | | \neg | | |
| | | | | 1 | T | \vdash | \dagger | prince wise oystells | t | t | | T | 電磁學 | | | | t. | 電子產品生產實務 | H | T | | \forall | | |
| | | | | <u>L</u> | <u>L</u> | <u>L</u> | <u> </u> | | <u> </u> | <u> </u> | <u>L</u> | <u>L</u> | Electromagnetics | | <u> </u> | 3 | 3 | Manufacture and Practice of Electronic Products | | 1 | 3 | 3 | | |
| | | | | | | | | 電動車等論 | 3 | 3 | | | 物聯網應用實務 | 3 | 3 | | | 雲端服務應用與實習 | 3 | 4 | | ٦ | | |
| | | | | ₩ | ₩ | ₩ | 1 | Introduction to Electric Vehicles | Ľ | Ľ | <u> </u> | <u> </u> | | Ľ | Ĺ | | <u> </u> | Cloud Service Application and Practicum | <u> </u> | | | 4 | | |
| | | | | | | | | 網路架設 Network Setup | 3 | 3 | | | 人工智慧應用與實習 Artificial Intelligence Application Practice | 3 | 4 | | | 互動式網頁設計 Active Web Page Programming | 3 | 3 | | | | |
| | 前 | 讯科技 | | ₩ | ╁ | ⊢ | ╁ | 手機app程式設計 | - | | 3 | 3 | 智慧生活設計與實習 | | | 2 | 4 | 多媒體編輯實務 | | - | , | 2 | | |
| | Information Technology | | | ₩ | ╄ | ⊢ | + | Smartphone app program design | <u> </u> | <u> </u> | 3 | 3 | Smart Life Design and Practice 大數據應用设計 | | | 3 | ! | Multimedia editing practices | \vdash | _ | 3 | 3 | | |
| | | | | Щ | ▙ | ـــــ | | | | | | | Big Data Applications and Design | | | 3 | 3 | | | | | _ | | |
| | | | | <u>L</u> | $oxed{oxed}$ | | | | | | | | 數位影像處理與實習 Digital image processing and experimen | | | 3 | 4 | | | | | | | |
| | | | | Щ | 丄 | ㄴ | | | | | | | | | | | | | | | | | | |
| 專業 | 3. | | | | | | | 视窗程式设计 | 3 | 3 | | | 感測元件與應用實務 Introduction of common sensors and its | 3 | 3 | | | 微控制器應用 | 3 | 3 | | | | |
| 選 | | 微電腦應用 Microcomputer applications | | ₩ | ┾ | ₩ | - | Windows Programming Languages | - | 1 | | | applications 圖控軟體程式設計與應用 | | | | | Microprocessor application 印刷電路板進階設計與製作 | \vdash | _ | | - | | |
| 修 Professiona 1 Elective | | | | | | | | | | | | | Design and application of the graphic | 3 | 3 | | | Design and manufacture of printed circuit | 3 | 3 | | | | |
| | | | | _ | + | | + | | | | | | control software Programm 資料撷取與信號量測分析 | | | 3 | 3 | board advanced 嵌入式系統 | | - | 3 | 3 | | |
| | | | | ₩ | ┾ | ₩ | - | | - | 1 | | | Data acquisition and measuring analysi | | | 3 | 3 | Embedded System Overview 系統晶片設計應用與實習 | \vdash | _ | 3 | - | | |
| | 應用電子 Applied electronics | | | | | | | | | | | | | | | | | System Chip Design- Application and | | | 3 | 4 | | |
| | | 光電半導體 Optoelectronic semiconductors | | ${}^{+-}$ | 十 | H | + | | | | | | 真空設備及薄膜技術 | | | | | 超大型積體電路製程技術 | H | _ | | = | | |
| | | | | | | | | | | | | | vacuum thin film technology equipment | 3 | 3 | | | Very Large-Scale Integrated Circuit Process Technology | 3 | 3 | | | | |
| | | | | | | | | | | | | | 電子材料 Electronic Materials | | | 3 | 3 | 平面顯示器導論 Introduction to Flat Panel Display | 3 | 3 | | | | |
| | | | | | T | | | | | | | | LED照明系統之分析與設計 | | | 3 | 3 | 材料分析 | | , | | 7 | | |
| | | | | <u> </u> | L | L | | | | | | | Analysis and design of the LED lighting system | | | 3 | 3 | Analysis of Materials | 3 | 3 | | | | |
| | | | 3 | | | | | | | | | | 太陽能工程實務 Practice of Solar Energy Engineering | | | 3 | 3 | 半等體構裝技術 Semiconductor Fabrication Technology | | | 3 | 3 | | |
| | | | | | | | | | | | | | | | | | | 電池儲能系統設計 | | | 3 | 3 | | |
| | | | | ₩ | \vdash | ₩ | 1 | | 1 | <u> </u> | | <u> </u> | | | _ | | <u> </u> | Design of Battery Energy Storage System LED品和製造與構裝 | $\vdash \downarrow$ | _ ļ | · | _ | | |
| | | | | 1 | 1 | | | | | | | | | ĺ | | | | The technology of LED Die Manufacture | | | 3 | 3 | | |
| | | 技職 | 嵌入式遊戲製作基礎與實習 | \vdash | t | F | + | 嵌入式單品片應用實習 | | + | | H | 嵌入式線色節能技術與實習 | | | | H | and nackage 機器人之嵌入式系統設計與實作 | | + | | | | |
| | Vocations | 再造 al re-engineering | Basis and experiment of embedded game manufacture | | | 3 | 6 | Embedded Micro-controller Applied Practice | | | 3 | 6 | Theory and Practice of Embedded Green Energy Technology | | | 3 | 6 | Design and Implementation of Robotic Embedded Systems | 3 | 6 | | | | |
| | , rocauolia | gmccring | 全民國防教育軍事訓練(一)選修 | $\overline{}$ | Ħ | 一 | 2 | | T | İ | | Ī | ET COMPAGE | | | | Ī | 業界質習訓練研修(選修) | 4 | , i | | Ť | 1 | |
| | | | | | | | . 2 | | 1 | ì | 1 | Ì | i l | l | | | L | Practice and Research on Mechanical industry(Elective) | 4 | 4 | | \perp | | |
| | | | National Defense Education Military Training(I)(Elective) | 0 | 2 | 0 | Ľ | | _ | _ | _ | _ | | | | | | 業界實習報告研修(選修) | 1 | 2 | Ī | Γ | | |
| | | | National Defense Education Military Training(I)(Elective) 勞作教育 | 0.5 | 1 | 0.5 | 1 | | | | | | | | | | | Report and Research on Mechanical | 2 | 1 | | | | |
| | | | National Defense Education Military Training(I/Elective) 等件教育 Labor Education | 1 | 1 | - | - | | | | | | | | | | | industriy(Elective) | 2 | -+ | | | | |
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