國立勤益科技大學 113 學年度四年制日間部四年制產學攜手合作計畫 2.0 專班資訊工程系智慧科技僑生專班學分計畫表

National Chin-Yi University of Technology Curriculum for 2024 Four-Year Bachelor Program of Overseas Chinese Program in Smart Technology

112.10.20 系課程會議審議通過 112.10.31 系務會議審議通過

112.11.22 院課程會議審議通過

112.12.07.校課程委員會議及 112.12.21.臨時教務會議審議通過 113.05.23 系課程會議審議通過

113.03.23 京蘇柱曾城奋城通過 113.08.28 系務會議審議通過 113.11.20 院課程會議審議通過

113.12.05 校課程委員會議及 113.12.24 臨時教務會議審議通過

| | | 上 学期 First Semester 下 学期 Second Semester | | | | | | | | | | |
|------------------------|--|--|---------------|------------------|--|--|--|--|--|--|--|--|
| 科目 | Courses | | 班 First Se. | 實習 Internship | 下学男 學分 Credits | 正課 Lecture | 實習 Internship | | | | | |
| | 共同必修科目(24 學分) General Required | Courses (24credi | ts hours) | | | | | | | | | |
| | 第一學年First Year | | | | | | | | | | | |
| 華語聽力與口語表達(一) | Mandarin Listening and Speaking (I) | 2 | 2 | 0 | | | | | | | | |
| 科技英文(一) | English for Science and Technology (I) | 2 | 2 | 0 | | | | | | | | |
| 微積分(一) | Calculus (I) | 2 | 2 | 0 | | | | | | | | |
| 體育(一) | Physical Education (I) | 0 | 2 | 0 | | | | | | | | |
| 華語聽力與口語表達(二) | Mandarin Listening and Speaking (II) | | | | 2 | 2 | 0 | | | | | |
| 科技英文(二) | English for Science and Technology (II) | | | | 2 | 2 | 0 | | | | | |
| 體育(二) | Physical Education (II) | | | | 0 | 2 | 0 | | | | | |
| 微積分(二) | Calculus (II) | | | | 2 | 2 | 0 | | | | | |
| | 第二學年Second Yea | ır | | | | | | | | | | |
| 華語閱讀與書寫(一) | Mandarin Reading and Writing (I) | 2 | 2 | 0 | | | | | | | | |
| 職場職能與倫理 | Occupational Competency and Ethics | 2 | 2 | 0 | | | | | | | | |
| 華語閱讀與書寫(二) | Mandarin Reading and Writing (II) | | | | 2 | 2 | 0 | | | | | |
| 台灣歷史與文化 | Taiwan's History and Culture | | | | 2 | 2 | 0 | | | | | |
| | 第三學年Third Yea | r | | | | | | | | | | |
| 博雅通識課程(I) | Liberal Education(I) | 2 | 2 | 0 | | | | | | | | |
| 博雅通識課程(II) | Liberal Education(II) | | | | 2 | 2 | 0 | | | | | |
| 11 th Quarter 11 () | 第四學年Fourth Year(無必修課程No Gen | eral Required Co | ourses) | | | | | | | | | |
| | 專業必修科目(66 學分) Department Require | | | | | | | | | | | |
| | 第一學年First Year | | uits ilouis) | | | | | | | | | |
| △程式設計與實習(一) | Computer Programming and Experiment (I) | 3 | 1 | 2 | | Т | T | | | | | |
| 計算機概論 | Introduction to Computer | 3 | 3 | 0 | | + | + | | | | | |
| 產業實務實習(一) | Industrial Practice Internship (I) | 3 | 0 | 6 | | + | + | | | | | |
| △數位邏輯概論 | Introduction to Digital Logic | 3 | 3 | 0 | | + | + | | | | | |
| △程式設計與實習(二) | Computer Programming and Experiment (II) | 3 | - 3 | | 3 | 1 | 2 | | | | | |
| | Industrial Practice Internship (II) | | + | + | 1 | | | | | | | |
| 產業實務實習(二) | • • • | | + | + | 3 | 0 | 6 | | | | | |
| △數位邏輯與實習 | Digital Logic and Experiment | | + | + | 3 | 3 | 0 | | | | | |
| 基本電學 | Basic Electricity | | | | 3 | 3 | 0 | | | | | |
| 文业库功库羽(一) | 第二學年Second Yea | | Τ ο | Τ . | | т | T | | | | | |
| 產業實務實習(三) | Industrial Practice Internship (III) | 3 | 0 | 6 | | | | | | | | |
| △資料結構 | Data Structures | 3 | 3 | 0 | | | | | | | | |
| 電子電路與實習 | Experiment of Electronics Circuit | 3 | 1 | 2 | | | | | | | | |
| △Web 程式設計與實習 | Web Programming | 3 | 1 | 2 | | | | | | | | |
| 電腦網路概論 | Introduction to Computer Network | | | | 3 | 3 | 0 | | | | | |
| 離散數學 | Discrete Mathematics | | | | 3 | 3 | 0 | | | | | |
| 產業實務實習(四) | Industrial Practice Internship (IV) | | ļ | | 3 | 0 | 6 | | | | | |
| 計算機組織與結構 | Computer Organization and Architecture | | | | 3 | 3 | 0 | | | | | |
| | 第三學年Third Yea | r | | | | | | | | | | |
| 資料庫概論 | Introduction to Database System | 3 | 3 | 0 | | | | | | | | |
| 產業實務實習(五) | Industrial Practice Internship (V) | 3 | 0 | 6 | <u> </u> | | | | | | | |
| 產業實務實習(六) | Industrial Practice Internship (VI) | | | | 3 | 0 | 6 | | | | | |
| 作業系統 | Operating System | | | | 3 | 3 | 0 | | | | | |
| | 第四學年Fourth Yea | | | | | | | | | | | |
| 產業實務實習(七) | Industrial Practice Internship (VII) | 3 | 0 | 6 | | | <u> </u> | | | | | |
| 產業實務實習(八) | Industrial Practice Internship (VIII) | | | | 3 | 0 | 6 | | | | | |
| | | 上學期 Fi | | | | | | | | | | |
| 科目 | Courses | 學分 Credits | 正課 Lecture | 實習 Internship | 學分 Credits | | | | | | | |
| | 專業選修科目 Department Elec | | | | | | | | | | | |
| | 第一學年 First Year (無遷修課程 No Depar | | Courses) | | | | | | | | | |
| -h2 - de he se | 第二學年 Second Yes | | | T ^ | | | | | | | | |
| 資訊與多媒體工程實務 | Information and Multimedia Engineering | 3 | 3 | 0 | 1 | 1 | 1 | | | | | |
| 線性代數 | Linear Algebra | 3 | 3 | 0 | | + | + | | | | | |

| Chip Design Practice SOC Chip Design SOPC Introduction to Microcontroller | 3 | 3 | 0 | | l | |
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| Object-Oriented System Analysis | 3 | 3 | 0 | | | |
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| Probability | | | 0 | | | |
| Introduction to Digital Image Processing | | 3 | 0 | | | |
| Introduction to Artificial Intelligence Systems | | 3 | 0 | | | |
| Introduction to IoT | 3 | 3 | 0 | | | |
| Introduction to Big Data and its Processing | 3 | 3 | 0 | | | |
| Algorithms | | | | 3 | 3 | 0 |
| Embedded System and Experiment | | | | 3 | 2 | 2 |
| Career Planning and Development | | | | 3 | 3 | 0 |
| Practice of Cloud Application | | | | 3 | 2 | 2 |
| Introduction to Wireless Network | | | | 3 | 3 | 0 |
| Introduction to Information Security | | | | 3 | 3 | 0 |
| Introduction to Innovative Electronic Design | | | | 3 | 3 | 0 |
| Numerical Analysis | | | | 3 | 3 | 0 |
| Image Recognition | | | | 3 | 3 | 0 |
| Introduction to Cloud Computing | | | | 3 | 3 | 0 |
| 第四學年 Fourth Year | | | | | | |
| Introduction to Electronic Assembly Technology | 3 | 3 | 0 | | | |
| Introduction to Deep Learning | 3 | 3 | 0 | | | |
| Technical Report Writing | 3 | 3 | 0 | | | |
| Wireless Sensor Network Applications and Design | 3 | 3 | 0 | | | |
| Introduction to Programming Methodology | 3 | 3 | 0 | | | |
| | 3 | 3 | 0 | | | |
| | 3 | 3 | 0 | 1 | | |
| | 3 | 3 | 0 | 1 | | |
| | 3 | 3 | 0 | | | |
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| 9 | 3 | | | 3 | 3 | 0 |
| Semiconductor Manufacturing Process | | | | 3 | 3 | 0 |
| | | | - | | | |
| 9 | | | | 1 | ٠ ، | |
| Machine Vision Applications | | | | 3 | 3 | 0 |
| 9 | | | | 3 3 | 3 3 | 0 0 |
| | Introduction to Digital Image Processing Introduction to Artificial Intelligence Systems Introduction to IoT Introduction to Big Data and its Processing Algorithms Embedded System and Experiment Career Planning and Development Practice of Cloud Application Introduction to Wireless Network Introduction to Information Security Introduction to Innovative Electronic Design Numerical Analysis Image Recognition Introduction to Cloud Computing 第四季年 Fourth Year Introduction to Electronic Assembly Technology Introduction to Deep Learning Technical Report Writing | Generalization of Computer Graphics 3 Interface Technology and Experiment 3 Introduction to Multimedia 3 Application and Design of Computer Software 3 Interpersonal Communication 1 Labor Standards Act and its Enforcement Rule Application of Microcontroller Work Study C# Programming Language Web Design 1 Introduction to Flat-Panel Displays Verilog Hardware Description Language System Conformity Design and Practice IP Design 3 Introduction to Flat-Panel Displays Verilog Hardware Description Language System Conformity Design and Practice IP Design 3 Introduction to Embedded Systems 3 Application and Practice of IoT 3 3 Python Programming 3 3 3 Engineering Mathematics 3 3 1 Introduction to Integrated Circuit 3 3 Practical Guide to Linux Administration 3 3 3 Network Programming 3 3 3 3 Multi-Platform Game Design Practice 3 3 3 Multi-Platform Game Design Practice 3 3 3 Multi-Platform Game Design Practice 3 3 3 3 Introduction to Digital Image Processing 3 3 1 1 1 1 1 1 1 1 | Generalization of Computer Graphics 3 | Generalization of Computer Graphies 3 3 0 Interface Technology and Experiment 3 2 1 Introduction to Multimedia 3 3 0 Application and Design of Computer Software 3 3 0 Interpersonal Communication 1 Lahor Standards Act and its Enforcement Rule 4 Application of Microcontroller Work Study C#Programming Language C#Programming Language C#Programming Language C#Programming Language Verlog Hardware Description Language Verlog Hardware Description Language System Conformity Design and Practice IP Design | Generalization of Computer Graphics 3 3 0 | Interface Technology and Experiment |

| 學分學時總數計算表 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|--------------|-----|----|--------------|-----|------------------|---------|------------|-----|----|------------|-----|------------------|-----|-------------|-----|----|-------------|-----|------------------|----|--------------|-----|----|--------------|---|
| 第一學年 | | | | | | 第. | 第三學年 | | | | | | | 第四學年 | | | | | | | | | | | | | |
| | 上學期 | | 下學期 | |] | 上學 | | 上學期 下學期 | | 期 | | 上學期 | | | 下學期 | | | | 上學期 | | 下學期 | | 期 | | | | |
| | 學分 | 正課 | 時實習 | 學分 | 學正課 | 時實習 | | 學分 | 學正課 | 時實習 | 學分 | 正 | 時實習 | | 學分 | 學正課 | 時實習 | 學分 | 學正課 | 時實習 | | 學分 | 學正課 | 時實習 | 學分 | 學正課 | 實 |
| 必修科目學分/時數 | 18 | 15 | 8 | 18 | 13 | 10 | 必修科目學分 /時數 | 16 | 13 | 6 | 16 | 13 | 6 | 必修科目學分/時 數 | 8 | 5 | 6 | 8 | 5 | 6 | 必修科目學分/ 時數 | 3 | 0 | 6 | 3 | 0 | 6 |
| 最低選修科目學分/ 時數 | 0 | 0 | 0 | 0 | 0 | | 最低選修科目 學分/時數 | 3 | 3 | 0 | 3 | 3 | 0 | 最低選修科目學 分/時數 | 9 | 9 | 0 | 9 | 9 | | 最低選修科目 學分/時數 | 9 | 9 | 0 | 6 | 6 | 0 |
| 總學分數及時數累計 | 18 | 15 | 8 | 18 | 13 | | 總學分數及時 數累計 | 19 | 16 | 6 | 19 | 16 | 6 | 總學分數及時數 累計 | 17 | 14 | 0 | 17 | 14 | | 總學分數及時 數累計 | 12 | 9 | 6 | 9 | 6 | 6 |
| 累積學分數 (必修/選修) | (1 | 18 18 / 0 |) | (3 | 36 6 / 0) | | 累積學分數 (必修/選修) | (5 | 55 52 / | | (| 74 68 / | | 累積學分數 (必修/選修) | (7 | 91 '6/ 1 | 5) | | 108 4/ 2 | | 累積學分數 (必修/選修) | | 120 7 / 3 | 3) | | 129 0 / 3 | |

備註 Note:

- 一、畢業至少應修滿 129 學分【必修 90 學分,選修至少 39 學分(須含本系專業選修至少 30 學分)】
 - Students should complete at least 128 credits before graduation, including 92 required credits, 36 elective credits (elective credits should have at least 30 credits from department elective courses).
- 二、課程名稱前有標示「△」符號者,為「程式設計課程」。
 - Courses with a "\(\triangle\)" refers to an application design course.
- 三、為因應法規變更、評鑑建議或政府計畫規定等外在因素,本系保有調整學分計畫之權利。若有修訂,將於學期開始前公告,並明確說明修訂內容、影響範圍及相關配套措施,以保障學生權益。

The department reserves the right to adjust the curriculum in response to external factors such as changes in regulations, suggestions of evaluation and accreditation, or government program regulations. If there are any revisions, will be announced before the start of the semester, and the revised content, scope of impact, and related supporting measures will be clearly stated to protect the rights and interests of students.