

國立勤益科技大學 112 學年度日間部四年制資訊管理系學分計畫表  
National Chin-Yi University of Technology  
Curriculum Planning of 2023 Four-Year Degree in Department of Information Management

111.11.15.系課程會議審議通過  
111.11.16.系務會議審議通過  
111.11.29.院課程委員會審議通過  
111.12.13.校課程會議及 111.12.22.臨時教務會議審議通過

| 科目   | Courses  | 上學期 First Semester |            |            | 下學期 Second Semester |            |             |
|--|--|--------------------|------------|------------|---------------------|------------|-------------|
|  |  | 學分 Credits         | 正課 Lecture | 實習 Interns | 學分 Credits          | 正課 Lecture | 實習 Internsh |
| <b>共同必修科目 (28 學分) General Required Courses (28 credits hours)</b>    |  |                    |            |            |                     |            |             |
| <b>第一學年 First Year</b>   |  |                    |            |            |                     |            |             |
| 國文(一)  | Chinese (I)                                      | 2                  | 2          | 0          |                     |            |             |
| 大一英文(一)  | Freshman English (I)                             | 2                  | 2          | 0          |                     |            |             |
| 英文聽講(一)  | Listening and Speaking (I)                       | 1                  | 1          | 0          |                     |            |             |
| 歷史與文化(一)   | History and Culture (I)                          | 2                  | 2          | 0          |                     |            |             |
| 體育(一)  | Physical Education (I)                           | 0                  | 2          | 0          |                     |            |             |
| 全民國防教育軍事訓練(一)  | All-Out Defense Education Military Training (I)  | 0                  | 2          | 0          |                     |            |             |
| 音樂鑑賞   | Music Appreciation                               | 1                  | 1          | 0          |                     |            |             |
| 國文(二)  | Chinese (II)                                     |                    |            |            | 2                   | 2          | 0           |
| 大一英文(二)  | Freshman English (II)                            |                    |            |            | 2                   | 2          | 0           |
| 英文聽講(二)  | Listening and Speaking (II)                      |                    |            |            | 1                   | 1          | 0           |
| 歷史與文化(二)   | History and Culture (II)                         |                    |            |            | 2                   | 2          | 0           |
| 體育(二)  | Physical Education (II)                          |                    |            |            | 0                   | 2          | 0           |
| 全民國防教育軍事訓練(二)  | All-Out Defense Education Military Training (II) |                    |            |            | 0                   | 2          | 0           |
| 藝術鑑賞   | Art Appreciation                                 |                    |            |            | 1                   | 1          | 0           |
| <b>第二學年 Second Year</b>  |  |                    |            |            |                     |            |             |
| 體育(三)  | Physical Education (III)                         | 0                  | 2          | 0          |                     |            |             |
| 博雅通識課程   | Liberal Education                                | 2                  | 2          | 0          |                     |            |             |
| 體育(四)  | Physical Education (IV)                          |                    |            |            | 0                   | 2          | 0           |
| 博雅通識課程   | Liberal Education                                |                    |            |            | 2                   | 2          | 0           |
| 憲法與民主  | Constitution and Democracy                       |                    |            |            | 2                   | 2          | 0           |
| <b>第三學年 Third Year</b>   |  |                    |            |            |                     |            |             |
| 博雅通識課程   | Liberal Education                                | 2                  | 2          | 0          |                     |            |             |
| 博雅通識課程   | Liberal Education                                |                    |            |            | 2                   | 2          | 0           |
| 博雅通識課程   | Liberal Education                                |                    |            |            | 2                   | 2          | 0           |
| <b>第四學年 Fourth Year (無必修課程 No General Required Courses)</b>          |  |                    |            |            |                     |            |             |
| <b>專業必修科目 (61 學分) Department Required Courses (61 credits hours)</b> |  |                    |            |            |                     |            |             |
| <b>第一學年 First Year</b>   |  |                    |            |            |                     |            |             |
| 商管知識 Business Management Knowledge                                   |  |                    |            |            |                     |            |             |
| 微積分(一)   | Calculus (I)                                     | 2                  | 2          | 0          |                     |            |             |
| 會計學(一)   | Accounting (I)                                   | 2                  | 2          | 0          |                     |            |             |
| 微積分(二)   | Calculus (II)                                    |                    |            |            | 2                   | 2          | 0           |
| 會計學(二)   | Accounting (II)                                  |                    |            |            | 2                   | 2          | 0           |
| 企業管理   | Business Management                              |                    |            |            | 3                   | 3          | 0           |
| 資訊科技 Information Technology  |  |                    |            |            |                     |            |             |
| 計算機概論  | Introduction to Computer Science                 | 3                  | 3          | 0          |                     |            |             |
| △物件導向程式設計  | Object-Oriented Programming Language             | 3                  | 2          | 2          |                     |            |             |
| △●商用程式設計   | Programming in Business                          |                    |            |            | 3                   | 2          | 2           |
| ●資訊網路  | Information Networks                             |                    |            |            | 3                   | 3          | 0           |
| <b>第二學年 Second Year</b>  |  |                    |            |            |                     |            |             |
| 商管知識 Business Management Knowledge                                   |  |                    |            |            |                     |            |             |
| 行銷學  | Marketing  | 3                  | 3          | 0          |                     |            |             |
| 生產與作業管理  | Production and Operation Management              | 3                  | 3          | 0          |                     |            |             |
| 統計學(一)   | Statistics (I)                                   | 3                  | 3          | 0          |                     |            |             |
| 統計學(二)   | Statistics (II)                                  |                    |            |            | 3                   | 3          | 0           |
| 管理數學   | Management Mathematics                           |                    |            |            | 3                   | 3          | 0           |
| 資訊科技 Information Technology  |  |                    |            |            |                     |            |             |
| ●資料庫管理系統   | Database Management System                       | 3                  | 3          | 0          |                     |            |             |
| 系統分析與設計  | System Analysis and Design                       |                    |            |            | 3                   | 3          | 0           |
| 資料結構   | Data Structures                                  |                    |            |            | 3                   | 3          | 0           |
| 商管系統 Business Management System                                      |  |                    |            |            |                     |            |             |
| 資訊管理導論   | Management Information System                    | 3                  | 3          | 0          |                     |            |             |
| ●企業資源規劃導論  | Introduction to Enterprise Resource Planning     |                    |            |            | 3                   | 3          | 0           |
| <b>第三學年 Third Year</b>   |  |                    |            |            |                     |            |             |
| 商管知識 Business Management Knowledge                                   |  |                    |            |            |                     |            |             |
| 企業倫理   | Business Ethics                                  |                    |            |            | 1                   | 1          | 0           |
| 資訊科技 Information Technology  |  |                    |            |            |                     |            |             |
| 商管系統 Business Management System                                      |  |                    |            |            |                     |            |             |
| ●顧客關係管理  | Customer Relationship Management                 | 3                  | 3          | 0          |                     |            |             |
| 實務專題(一)  | Project Study (I)                                | 2                  | 0          | 6          |                     |            |             |
| 實務專題(二)  | Project Study (II)                               |                    |            |            | 2                   | 0          | 6           |
| <b>第四學年 Fourth Year (無排定 No Department Required Courses)</b>         |  |                    |            |            |                     |            |             |

|  |                    |                     |
|--|--------------------|---------------------|
|  | 上學期 First Semester | 下學期 Second Semester |
|--|--------------------|---------------------|

| 科目   | Courses  | 學分<br>Credits | 正課<br>Lecture | 實習<br>Internship | 學分<br>Credits | 正課<br>Lecture | 實習<br>Internship |
|--|--|---------------|---------------|------------------|---------------|---------------|------------------|
| <b>共同選修科目 General Elective Courses</b>                         |  |               |               |                  |               |               |                  |
| <b>第一學年 First Year (無排定共同選修課程 No General Elective Courses)</b> |  |               |               |                  |               |               |                  |
| <b>第二學年 Second Year</b>  |  |               |               |                  |               |               |                  |
| 全民國防教育軍事訓練(三)  | All-Out Defense Education Military Training ( III )    | 1             | 2             | 0                |               |               |                  |
| 全民國防教育軍事訓練(四)  | All-Out Defense Education Military Training ( IV )     |               |               |                  | 1             | 2             | 0                |
| <b>第三學年 Third Year</b>   |  |               |               |                  |               |               |                  |
| 體育選修   | Physical Elective Course                               | 1             | 2             | 0                | 1             | 2             | 0                |
| 全民國防教育軍事訓練(五)  | All-Out Defense Education Military Training ( V )      | 1             | 2             | 0                |               |               |                  |
| <b>第四學年 Fourth Year</b>  |  |               |               |                  |               |               |                  |
| 體育選修   | Physical Elective Course                               | 1             | 2             | 0                | 1             | 2             | 0                |
| <b>專業選修科目 Department Elective Courses</b>                      |  |               |               |                  |               |               |                  |
| <b>第二學年 Second Year</b>  |  |               |               |                  |               |               |                  |
| <b>企業電子化應用 Enterprise electronic applications</b>              |  |               |               |                  |               |               |                  |
| 經濟學  | Economics  | 3             | 3             | 0                |               |               |                  |
| 管理會計   | Managerial Accounting Applications                     | 3             | 3             | 0                |               |               |                  |
| 企業資源規劃系統★  | Enterprise Resource Planning Systems                   |               |               |                  | 3             | 3             | 0                |
| ●網路行銷  | Internet Marketing                                     |               |               |                  | 3             | 3             | 0                |
| <b>企業電子化技術 Enterprise Electronic Technology</b>                |  |               |               |                  |               |               |                  |
| 離散數學   | Discrete Mathematics                                   | 3             | 3             | 0                |               |               |                  |
| 影像處理與應用  | Image Processing and Applications                      | 3             | 3             | 0                |               |               |                  |
| 互動式網頁設計  | Interactive Web Page Design                            | 3             | 3             | 0                |               |               |                  |
| △網頁應用程式設計★   | Web Application Programming                            | 3             | 3             | 0                |               |               |                  |
| 多媒體設計  | Multimedia Design                                      |               |               |                  | 3             | 3             | 0                |
| 網路服務與管理  | Network Services and Management                        |               |               |                  | 3             | 3             | 0                |
| △行動裝置應用程式設計★   | Programming for Mobile Devices                         |               |               |                  | 3             | 3             | 0                |
| <b>其它專業選修課程 Other Elective Courses</b>                         |  |               |               |                  |               |               |                  |
| 組織行為   | Organizational Behavior                                | 3             | 3             | 0                |               |               |                  |
| 消費者行為  | Consumer Behavior                                      |               |               |                  | 3             | 3             | 0                |
| 商用英文   | Commercial English                                     |               |               |                  | 3             | 3             | 0                |
| 師徒實務專題(一)  | Mentor-Apprentice Project study ( I )                  |               |               |                  | 3             | 0             | 3                |
| <b>第三學年 Third Year</b>   |  |               |               |                  |               |               |                  |
| <b>企業電子化應用 Enterprise electronic applications</b>              |  |               |               |                  |               |               |                  |
| ●進銷存管理資訊系統★  | Distribution Systems                                   | 3             | 3             | 0                |               |               |                  |
| 行銷與銷售管理資訊系統  | Marketing and Sales Application Systems                | 3             | 3             | 0                |               |               |                  |
| AI 巨量資料分析★   | Big Data Analysis                                      | 3             | 3             | 0                |               |               |                  |
| 科技創新與管理  | Management of Technological Innovation                 |               |               |                  | 3             | 3             | 0                |
| 電子商務   | Electronic Commerce                                    |               |               |                  | 3             | 3             | 0                |
| 專案管理★  | Project Management                                     |               |               |                  | 3             | 3             | 0                |
| ●生產管理資訊系統★   | Manufacture Systems                                    |               |               |                  | 3             | 3             | 0                |
| ●財務會計資訊系統★   | Financial Accounting Systems                           |               |               |                  | 3             | 3             | 0                |
| 虛擬實境與擴增實境  | Augmented and Virtual Reality                          |               |               |                  | 3             | 3             | 0                |
| <b>企業電子化技術 Enterprise Electronic Technology</b>                |  |               |               |                  |               |               |                  |
| 演算法  | Algorithms   | 3             | 3             | 0                |               |               |                  |
| 作業系統   | Operating System                                       | 3             | 3             | 0                |               |               |                  |
| 資訊安全★  | Information Security                                   | 3             | 3             | 0                |               |               |                  |
| 物聯網應用與實務★  | IoT Application and Practice                           | 3             | 3             | 0                |               |               |                  |
| 3D 造型設計與列印實務   | Three Dimensional Shape Design and Printing Technology | 3             | 3             | 0                |               |               |                  |
| 網站資訊系統開發實務   | Web Information System Development                     | 3             | 3             | 0                |               |               |                  |
| 企業應用系統開發   | Enterprise System Developments                         | 3             | 3             | 0                |               |               |                  |
| 雲端運算★  | Cloud Computing  |               |               |                  | 3             | 3             | 0                |
| AI 人工智慧★   | Artificial Intelligence                                |               |               |                  | 3             | 3             | 0                |
| AI 資料探勘★   | Data Mining  |               |               |                  | 3             | 3             | 0                |
| 資料壓縮   | Data Compression                                       |               |               |                  | 3             | 3             | 0                |
| 物件導向系統分析與設計  | Object-Oriented Systems Analysis and Design            |               |               |                  | 3             | 3             | 0                |
| <b>其它專業選修課程 Other Elective Courses</b>                         |  |               |               |                  |               |               |                  |
| 人力資源管理   | Human Resource Management                              | 3             | 3             | 0                |               |               |                  |
| 萃思創意思考與應用  | TRIZ-Innovative Thinking and Application               | 3             | 3             | 0                |               |               |                  |
| 市場調查與分析  | Marketing Research Methods and Analysis                | 3             | 3             | 0                |               |               |                  |
| 科技管理   | Management of Technology                               |               |               |                  | 3             | 3             | 0                |
| ●資料分析  | Data Analysis  |               |               |                  | 3             | 3             | 0                |
| 商事法  | Law of Commercial Affairs                              |               |               |                  | 3             | 3             | 0                |
| 服務創新與管理  | Service Innovation and Management                      |               |               |                  | 3             | 3             | 0                |
| 校外實習 (暑期)  | Intern Course ( summer session )                       |               |               |                  | 3             | 0             | 3                |

**第四學年 Fourth Year**

**企業電子化應用 Enterprise electronic applications**

|   |  |   |   |   |   |   |   |
|---|--|---|---|---|---|---|---|
| 創新 IT 應用與個案研討                                   | Innovative IT Applications & Cases           | 3 | 3 | 0 |   |   |   |
| 系統導入與個案分析                                       | Systems Implement and Case Analysis          | 3 | 3 | 0 |   |   |   |
| <b>企業電子化技術 Enterprise Electronic Technology</b> |  |   |   |   |   |   |   |
| 軟體工程  | Software Engineering                         | 3 | 3 | 0 |   |   |   |
| AI 深度學習   |  | 3 | 3 | 0 |   |   |   |
| <b>其它專業選修課程 Other Elective Courses</b>          |  |   |   |   |   |   |   |
| 供應鏈管理   | Supply Chain Management                      | 3 | 3 | 0 |   |   |   |
| 管理心理學   | Management Psychology                        | 3 | 3 | 0 |   |   |   |
| 資訊與法律   | Information and Law                          | 3 | 3 | 0 |   |   |   |
| 進階試算表分析   | Advanced Trial Balance Analysis              | 3 | 3 | 0 |   |   |   |
| 師徒實務專題 (二)                                      | Mentor-Apprentice Project study ( II )       | 3 | 0 | 3 |   |   |   |
| 校外實習 (一)  | Intern Course (I)                            | 9 | 0 | 9 |   |   |   |
| 校外實習 (二)  | Intern Course (II)                           |   |   |   | 9 | 0 | 9 |
| 專利與智慧財產權管理                                      | Patents and Intellectual Property Management |   |   |   | 3 | 3 | 0 |

備註 Note:

- 一、畢業至少應修滿 131 學分【必修 89 學分，選修至少 42 學分(須含本系專業選修至少 28 學分)】  
Students should complete at least 134 credits before graduation, includes 89 required credits, 42elective credits (elective credits should have at least 28 credits from department elective courses).
- 二、本校訂有「國立勤益科技大學學生畢業門檻辦法」，畢業門檻條件：英文能力及自主學習，請依規定辦理。  
Our school has established the "National Chin-yi University of Science and Technology Student Graduation Threshold Measures", Graduation threshold: English proficiency and independent study, please follow the regulations.
- 三、通識教育學院所開設之「博雅通識課程」學分數(時)為 2 學分 2 學時或 3 學分 3 學時，經 101 學年度第二學期校課程委員會會議通過。  
Liberal Arts General Study courses opened by College of General Education, are divided into 2 hours course with 2 credits or 3 hours course with 3 credits, ratified by Course Committee in 2012.
- 四、一般入學學生專業選修課程規範  
Standards for elective subject for general admission and special achievement-based admission  
『企業電子化應用』與『企業電子化技術』二領域，任選一領域選修 4 門，另一領域選修 2 門，累計至少 6 門不同之選修課程；選修『企業電子化應用』領域者，應於該領域標示「★」課程中必選修兩門；選修『企業電子化技術』領域者，應於該領域標示「★」課程中必選修兩門。  
In the two fields of "Enterprise Electronic Application" and "Enterprise Electronic Technology", choose 4 elective subjects in one field and 2 elective subjects in the other field, with a total of at least 6 different elective subjects; those who take the field of "Enterprise Electronic Application", Two compulsory subjects should be marked "★" in the field; those who take the field of "Enterprise Electronic Technology" should be marked "★" in this field. Two compulsory subjects should be taken.
- 五、『系統導入與個案分析』、『創新 IT 應用與個案研討』課程為『企業電子化應用』與『企業電子化技術』二領域中擇一承認。  
Systems Implement and Case Analysis and Innovative IT Applications & Cases are recognized as one of the two areas of "Enterprise Electronic Application" and "Enterprise Electronic Technology".
- 六、證照畢業門檻：學生於入學後畢業前須取得至少 3 張專業證照(資訊應用類、資訊技能類(至少 1 張)，本系規定之相關專業證照另訂)方得畢業。  
Graduation threshold of license: Students must obtain at least 3 professional licenses before graduation.(information application, information technology (at least 1), the relevant professional license regulations comply with the standards of this department)
- 七、『全民國防教育軍事訓練』共同選修課程至多選修一學年。  
All-Out Defense Education Military Training (III) and All-Out Defense Education Military Training (IV) and All-Out Defense Education Military Training (V) choose up to one year.
- 八、課程名稱前有標示「●」符號者，為「職能專業課程」。  
Courses with a "●" refer to a professional competence course.
- 九、課程名稱前有標示「△」符號者，為「程式設計課程」。  
Courses with a "△" refers to an application design course.
- 十、課程名稱前有標示「AI」符號者，為「人工智慧相關課程」。  
Courses with an "AI" refer to an artificial intelligence related course.
- 十一、學生須選讀本系所訂跨領域學程課程，並有成績登錄。  
Students need to register for the course of inter-disciplinary program set by this department and have a record of grades

## 112 學年度 資訊管理系 跨領域學分學程

| 『企業電子化應用領域』跨領域學分學程 |    |           |    |    |                |    |      |
|--------------------|----|-----------|----|----|----------------|----|------|
| 本系                 |    |           |    | 外系 |                |    |      |
| 課程選別               | 學年 | 科目名稱      | 學分 | 學年 | 科目名稱           | 學分 |      |
| 必修                 | 二上 | 資訊管理導論    | 3  |    | 工管系-物流與供應鏈系統設計 |    | 任選二門 |
| 必修                 | 二下 | 企業資源規劃導論  | 3  |    | 企管系-財務報表分析     |    |      |
| 選修                 | 二上 | 經濟學       | 3  |    | 企管系-績效管理       |    |      |
| 選修                 | 二下 | 管理會計      | 3  |    | 企管系-服務業行銷與管理   |    |      |
| 選修                 | 三上 | 巨量資料分析    | 3  |    | 企管系-商業簡報理論與實務  |    |      |
| 選修                 | 三上 | 進銷存管理資訊系統 | 3  |    | 休管系-休閒產業資訊管理   |    |      |
| 選修                 | 三下 | 科技創新與管理   | 3  |    | 流管系-賣場規劃與管理    |    |      |

| 『企業電子化科技領域』跨領域學分學程 |    |      |    |    |      |    |  |
|--------------------|----|------|----|----|------|----|--|
| 本系                 |    |      |    | 外系 |      |    |  |
| 課程選別               | 學年 | 科目名稱 | 學分 | 學年 | 科目名稱 | 學分 |  |

|    |    |            |      |   |  |                                |      |   |
|----|----|------------|------|---|--|--------------------------------|------|---|
| 必修 | 二上 | 資料庫管理系統    |      | 3 |  | 工管系-機聯網設計                      |      | 3 |
| 必修 | 二下 | 系統分析與設計    |      | 3 |  | 工管系-電腦整合製造系統                   |      | 3 |
| 選修 | 二上 | 網頁應用程式設計   | 任選三門 | 3 |  | 工管系-物流與供應鏈系統設計                 | 任選二門 | 3 |
| 選修 | 二下 | 行動裝置應用程式設計 |      | 3 |  | 工管系-自動化資料蒐集系統                  |      | 3 |
| 選修 | 三上 | 企業應用系統開發   |      | 3 |  | 工管系- EPC Global RFID 應用實務技術與認證 |      | 3 |
| 選修 | 三下 | 人工智慧       |      | 3 |  | 休管系-旅行業票務系統                    |      | 3 |
|    |    |            |      |   |  | 流管系-賣場規劃與管理                    |      | 3 |
|    |    |            |      |   |  |                                |      |   |