

資訊工程學系進修學士班  
111-112 學年度入學新生課程規劃表

校訂必修(通識核心課程)

共計26學分

| 類別                        |              | 課程/學門        | 學分 | 開課年級           |
|---------------------------|--------------|--------------|----|----------------|
| 基 本<br>知 能<br>(12)        | 外國語文學門       | 英文(一)        | 4  | 一              |
|                           | (Q)          | 大二外文自由選      | 4  | 二              |
|                           | 語文表達         | 中國語文能力表達     | 2  | 一下             |
|                           | 學習與發展(N)     | 大學學習         | 1  | 一上             |
|                           | 社團學習與實作(K)   | 課外活動與團隊發展    | 1  | 一下             |
| 通 識<br>核 心<br>課 程<br>(14) | 探索永續/AI與程式語言 |              | 1  | 一上             |
|                           | 人文領域         | 文學經典學門(L)    | 2  | 1. 每學門至多修習 2 科 |
|                           |              | 歷史與文化學門(P)   |    |                |
|                           |              | 哲學與宗教學門(V)   |    |                |
|                           |              | 藝術欣賞與創作學門(M) |    |                |
|                           | 社會領域         | 全球視野學門(T)    | 2  |                |
|                           |              | 未來學學門(R)     |    |                |
|                           |              | 社會分析學門(W)    |    |                |
|                           |              | 公民社會及參與學門(S) |    |                |
|                           | 科學領域         | 資訊教育學門(O)    | 2  |                |
|                           |              | 全球科技革命學門(Z)  |    |                |
|                           |              | 自然科學學門(U)    |    |                |
| 全民國防教育軍事訓練（一）-國防科技        |              |              | 0  |                |
| 體育                        |              |              | 0  |                |
| 校園與社區服務學習                 |              |              | 0  |                |

系訂必修

共計66學分

| 科目名稱           | 學分數 | 開課年級 |
|----------------|-----|------|
| 計算機概論          | 3   | 1    |
| 網路概論           | 3   | 1    |
| 計算機程式語言        | 3/3 | 1    |
| 靜態網頁設計         | 3   | 1    |
| Javascript網頁設計 | 3   | 1    |
| 開源軟體實務         | 3   | 1    |
| 機率統計           | 3   | 1    |
| 資料庫            | 3   | 2    |
| 資料結構與處理        | 3   | 2    |
| 行動裝置程式設計(一)    | 3   | 2    |
| 行動裝置程式設計(二)    | 3   | 2    |
| Web程式設計(一)     | 3   | 2    |
| Web程式設計(二)     | 3   | 2    |
| 資料分析(一)        | 3   | 2    |
| 資料分析(二)        | 3   | 2    |
| 演算法            | 3   | 3    |
| 作業系統           | 3   | 3    |
| 數據視覺化          | 3   | 3    |
| 人工智慧概論         | 3   | 3    |
| 專題製作(一)        | 3   | 3    |
| 專題製作(二)        | 3   | 3    |
|                |     |      |
|                |     |      |
|                |     |      |
|                |     |      |
|                |     |      |
|                |     |      |
|                |     |      |
|                |     |      |

系選修

20學分

| 科目名稱            | 學分數 | 開課年級 |
|-----------------|-----|------|
| 知識商務            | 3   | 三    |
| 個人通訊系統          | 3   | 三    |
| 統計學             | 3   | 三    |
| 無線區域及個人網路       | 3   | 三    |
| 無線網路概論          | 3   | 三    |
| 無線區域網路          | 3   | 三    |
| 電子商務概論          | 3   | 三    |
| 機器學習概論          | 3   | 三    |
| 深度學習概論          | 3   | 三    |
| 工程數學            | 3   | 三    |
| 組合語言與系統程式       | 3   | 三    |
| 編譯程式            | 3   | 三    |
| 虛擬化技術           | 3   | 三    |
| 進階C語言實務         | 3   | 三    |
| 行動裝置程式設計        | 3   | 三    |
| 正規語言與自動機理論      | 3   | 四    |
| 雲端計算            | 3   | 四    |
| 多媒體處理技術         | 3   | 四    |
| 物件導向軟體工程        | 3   | 四    |
| 軟體專案管理          | 3   | 四    |
| 無線網路安全          | 3   | 四    |
| 資料探勘            | 3   | 四    |
| 管理資訊系統          | 3   | 四    |
| 網路安全            | 3   | 四    |
| 網路程式設計          | 3   | 四    |
| 影像處理            | 3   | 四    |
| 大數據分析技法         | 3   | 四    |
| 物聯網概論           | 3   | 四    |
| 數據科學實務：使用Python | 3   | 四    |
| 物聯網安全           | 3   | 四    |
| 數位影像處專題         | 3   | 四    |
| 人工智慧之深度計算入門     | 3   | 四    |
| 資料壓縮            | 3   | 四    |
| 金融科技安全          | 3   | 四    |
| 資訊通訊安全管理        | 3   | 四    |
| 人工智慧與專家系統概論     | 3   | 四    |
| 決策支援系統          | 3   | 四    |
| 軟體開發與專案管理       | 3   | 四    |
| 系統分析與設計         | 3   | 四    |
| J A V A 程式設計    | 3   | 四    |
| 進階程式設計          | 3   | 四    |
| 企業系統開發實境        | 3   | 四    |
| 行動通訊安全          | 3   | 四    |
| 企業資訊系統          | 3   | 四    |
| 資訊安全導論          | 3   | 四    |
|                 |     |      |
|                 |     |      |

◎系選修課程依當學期開課課程為主，以上列表僅供參考。

校訂必修：26學分  
系訂必修：66學分  
系選修：20學分  
自由選修：16學分  
程式能力檢定：0學分  
畢業總學分數：128學分

Department of Computer Science and Information Engineering(Evening Bachelor Degree)  
111-112 Academic Year Freshman Course Planning Table

| School Compulsory Courses                               |   |  |        | 26 Credits  |
|---|---|--|--------|---|
| Field   |   | Course Name  | credit | Grade   |
| Fundamental courses<br>(12)                             | Foreign Language (Q)                                | English (I)  | 4      | 1 <sup>st</sup> year  |
|   |   | optional foreign language for sophomore year           | 4      | 2nd year  |
|   | Ability of Expressing in Spoken and Written Chinese | Ability of Expressing in Spoken and Written Chinese    | 2      | 1 <sup>st</sup> year  |
|   | Learning and Development (N)                        | Learning in University                                 | 1      | 1 <sup>st</sup> year  |
|   | Learning and Practice of Club (K)                   | Learning and Practice of Club                          | 1      | 1 <sup>st</sup> year  |
|   | General Education & Core Courses<br>(14)            | Exploring Sustainability / AI and Programming Language |        | 1/1   |
| Humanity categories                                     |   | Classics in World Literature (L)                       | 2      | Each part from categories only can take up to 2 subjects for 4 credits. |
|   |   | History and Culture(P)                                 |        |   |
|   |   | Philosophy and Religion (V)                            |        |   |
|   |   | Arts Appreciation and Invention (M)                    |        |   |
| Science categories                                      |   | Global Outlook (T)                                     | 2      |   |
|   |   | Futures Studies (R)                                    |        |   |
|   |   | Social Analysis (W)                                    |        |   |
|   |   | Civil Society and Participation (S)                    |        |   |
| Science categories                                      |   | Information & Computer Education (O)                   | 2      |   |
|   |   | Global Technology Revolution (Z)                       |        |   |
|   |   | Natural Sciences (U)                                   |        |   |
| All-Out Defense Education Military Training and Nursing |   |  | 0      |   |
| Physical Education                                      |   |  | 0      |   |
| Campus And Community Service-Learning                   |   |  | 0      |   |

| Department Compulsory Courses           |  | 66 credits |                      |
|---|--|------------|----------------------|
| Course Name                             |  | credit     | Grade                |
| Introduction to Computers               |  | 3          | 1 <sup>st</sup> year |
| Introduction to Computer Network        |  | 3          | 1 <sup>st</sup> year |
| Computer Programming                    |  | 3/3        | 1 <sup>st</sup> year |
| Static Web Design                       |  | 3          | 1 <sup>st</sup> year |
| Javascript Web Design                   |  | 3          | 1 <sup>st</sup> year |
| Open Source Practice                    |  | 3          | 1 <sup>st</sup> year |
| Probability and Statistics              |  | 3          | 1 <sup>st</sup> year |
| Database                                |  | 3          | 2nd year             |
| Data Structure & Processing             |  | 3          | 2nd year             |
| Mobile Device Programming I             |  | 3          | 2nd year             |
| Mobile Device Programming Ii            |  | 3          | 2nd year             |
| Web Programming I                       |  | 3          | 2nd year             |
| Web Programming Ii                      |  | 3          | 2nd year             |
| Data Analysis I                         |  | 3          | 2nd year             |
| Data Analysis Ii                        |  | 3          | 2nd year             |
| Algorithms                              |  | 3          | 3rd year             |
| Operating Systems                       |  | 3          | 3rd year             |
| Data Visualization                      |  | 3          | 3rd year             |
| Introduction to Artificial Intelligence |  | 3          | 3rd year             |
| Special Project I                       |  | 3          | 3rd year             |
| Special Project Ii                      |  | 3          | 3rd year             |
|   |  |            |                      |

| Department Elective Courses                                |  | 20 Credits |          |
|--|--|------------|----------|
| Course Name  |  | credit     | Grade    |
| Knowledge Commerce   |  | 3          | 3rd year |
| Personal Communication Systems                             |  | 3          | 3rd year |
| Statistics   |  | 3          | 3rd year |
| Wireless Lans and Pans                                     |  | 3          | 3rd year |
| Introduction Of Wireless Lan                               |  | 3          | 3rd year |
| Wireless Local Area Networks                               |  | 3          | 3rd year |
| Introduction to E-Business                                 |  | 3          | 3rd year |
| Introduction to Machine Learning                           |  | 3          | 3rd year |
| Introduction to Deep Learning                              |  | 3          | 3rd year |
| Engineering Mathematics                                    |  | 3          | 3rd year |
| Assembly Language and System Programs                      |  | 3          | 3rd year |
| Compilers  |  | 3          | 3rd year |
| Virtualization Technology                                  |  | 3          | 3rd year |
| Advanced C Programming                                     |  | 3          | 3rd year |
| Mobile Device Programming                                  |  | 3          | 3rd year |
| Formal Languages & Automata Theory                         |  | 3          | 4th year |
| Cloud Computing  |  | 3          | 4th year |
| Multimedia Processing Technology                           |  | 3          | 4th year |
| Object-Oriented Software Engineering                       |  | 3          | 4th year |
| Software Project Management                                |  | 3          | 4th year |
| Wireless Network Security                                  |  | 3          | 4th year |
| Data Mining  |  | 3          | 4th year |
| Management Information System                              |  | 3          | 4th year |
| Network Security   |  | 3          | 4th year |
| Network Programming  |  | 3          | 4th year |
| Image Processing   |  | 3          | 4th year |
| Big Data Analytic Techniques                               |  | 3          | 4th year |
| Introduction To Internet of Things *                       |  | 3          | 4th year |
| Practical Data Science on Python                           |  | 3          | 4th year |
| Security of The Internet of Things                         |  | 3          | 4th year |
| Digital Image Processing Project                           |  | 3          | 4th year |
| Introduction to Deep Computing In Artificial Intelligence  |  | 3          | 4th year |
| Data Compression   |  | 3          | 4th year |
| Fintech Security   |  | 3          | 4th year |
| Computer and Network Security                              |  | 3          | 4th year |
| Introduction to Artificial Intelligence and Expert Systems |  | 3          | 4th year |
| Decision Support Systems                                   |  | 3          | 4th year |
| Software Development and Project Management                |  | 3          | 4th year |
| System Analysis and Design                                 |  | 3          | 4th year |
| Java Programming   |  | 3          | 4th year |
| Advanced Computer Programming                              |  | 3          | 4th year |
| Workshop Of Enterprise System Development                  |  | 3          | 4th year |
| Mobile Communications Security                             |  | 3          | 4th year |
| Enterprise Information System                              |  | 3          | 4th year |
| Introduction to Information Security                       |  | 3          | 4th year |
|  |  |            |          |
|  |  |            |          |

◎ The department elective courses are mainly based on the courses offered in the current semester. The above list is for reference only. °

- ( 1 ) Total credits of compulsory subjects: 92 credits (including 26 credits of general education courses)
- ( 2 ) Minimum total number of credits required for elective courses in this department: 20 credits.
- ( 3 ) Total credits of other elective courses: 16 credits
- ( 4 ) Programming Examination
- Total credits for graduation: 128 credits