

日間部 113 學年度資工系四技備註修正表

| 修正後                                                                                                        | 修正前                                             |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1.最低畢業學分：128 學分，其中專業選修 <u>41</u> 學分(本系至少 <u>29</u> 學分，其餘可跨系)。                                              | 1.最低畢業學分：128 學分，其中專業選修 32 學分(本系至少 20 學分，其餘可跨系)。 |
| 8.四年級上、下學期校外實習選修各 9 學分，科目名稱為資訊實務、資訊技術，僅限參與校外實習者選修。                                                         | 無                                               |
| 9.本系學生必須於大三下學期以及大四上學期修習實務專題課程，若修習未通過者，仍需於後續之學期中加選本系之實務專題課程，直至修習通過滿兩學期之實務專題課程為止，方可認定通過實務專題(一)與實務專題(二)課程之修習。 | 無                                               |
|                                                                                                            |                                                 |
|                                                                                                            |                                                 |
|                                                                                                            |                                                 |

資工系課務規劃委員會

資工系主任 陳美支

工程學院  
副院長 戴任詔

代

# 113學年度日間部四技資訊工程系必修課程變動表

| 原113學年度科目 | 第_學年/學期 | 學分/時數 | 新113學年度科目 | 第_學年/學期 | 學分/時數 | 變動類別(停開、新增、更改課程名稱、學分) | 修訂及重補修原則說明 |
|-----------|---------|-------|-----------|---------|-------|-----------------------|------------|
| 實務專題(一)   | 三上      | 1/1   | 實務專題(一)   | 三下      | 1/1   | 更改課程上課學期              |            |
| 實務專題(二)   | 三下      | 1/1   | 實務專題(二)   | 四上      | 1/1   | 更改課程上課學期              |            |
| 校外實習(一)   | 四上      | 9/9   |           |         |       | 停開                    | 改為選修       |
|           |         |       |           |         |       |                       |            |
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系課務委員簽章：

資工系課務規劃委員會

系主任簽章：

資工系主任 陳美支

院長簽章：

工程學院 戴任詔 副院長

代



113學年度課程規劃表

資訊工程系

日間部四技

| 第一學年(113)        |            |     |    |     |    | 第二學年(114)        |            |     |    |     |    | 第三學年(115)        |            |     |    |     |    |
|------------------|------------|-----|----|-----|----|------------------|------------|-----|----|-----|----|------------------|------------|-----|----|-----|----|
|                  | 科目         | 上學期 |    | 下學期 |    |                  | 科目         | 上學期 |    | 下學期 |    |                  | 科目         | 上學期 |    | 下學期 |    |
|                  |            | 學分  | 時數 | 學分  | 時數 |                  |            | 學分  | 時數 | 學分  | 時數 |                  |            | 學分  | 時數 | 學分  | 時數 |
| 校<br>必<br>修      | 分類通識       | 2   | 2  | 2   | 2  | 校<br>必<br>修      | 分類通識       | 2   | 2  | 2   | 2  | 校<br>必<br>修      |            |     |    |     |    |
|                  | 分類通識       | 2   | 2  | 2   | 2  |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | 體育         | 2   | 2  | 2   | 2  |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | 小計         | 6   | 6  | 6   | 6  |                  | 小計         | 2   | 2  | 2   | 2  |                  | 小計         |     |    |     |    |
| 院<br>必<br>修      | 科技英文(一)(二) | 2   | 2  | 2   | 2  | 院<br>必<br>修      | 科技英文(三)(四) | 2   | 2  | 2   | 2  | 院<br>必<br>修      | 人工智慧       | 3   | 3  |     |    |
|                  | 應用中文(一)(二) | 2   | 2  | 2   | 2  |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | 微積分(一)(二)  | 3   | 3  | 3   | 3  |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | 物理(一)(二)   | 2   | 2  | 2   | 2  |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | C程式設計(一)   | 3   | 3  |     |    |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  | 小計         | 12  | 12 | 9   | 9  |                  | 小計         | 2   | 2  | 2   | 2  |                  | 小計         | 3   | 3  |     |    |
| 專<br>業<br>必<br>修 | 計算機概論      | 2   | 2  |     |    | 專<br>業<br>必<br>修 | Java程式設計   | 3   | 3  |     |    | 專<br>業<br>必<br>修 | 作業系統       | 2   | 2  |     |    |
|                  | 基礎數位實務     | 2   | 2  |     |    |                  | 數位邏輯設計與實習  | 3   | 3  |     |    |                  | Python程式應用 | 3   | 3  |     |    |
|                  | C程式設計(二)   |     |    | 3   | 3  |                  | 資料結構       | 3   | 3  |     |    |                  | 軟體工程       |     |    | 3   | 3  |
|                  | 多人多工系統實務   |     |    | 2   | 2  |                  | 電腦網路       | 3   | 3  |     |    |                  | 計算機架構      |     |    | 2   | 2  |
|                  | 工程倫理       |     |    | 2   | 2  |                  | 資料庫系統概論    |     |    | 3   | 3  |                  | 實務專題(一)    |     |    | 1   | 1  |
|                  |            |     |    |     |    |                  | 嵌入式微算機系統   |     |    | 2   | 2  |                  |            |     |    |     |    |
|                  |            |     |    |     |    |                  | 資訊數學       |     |    | 3   | 3  |                  |            |     |    |     |    |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  |            |     |    |     |    |
|                  |            |     |    |     |    |                  | 小計         | 12  | 12 | 8   | 8  |                  | 小計         | 5   | 5  | 6   | 6  |
| 專<br>業<br>選<br>修 |            |     |    |     |    | 專<br>業<br>選<br>修 | 多人多工系統應用   | 2   | 2  |     |    | 專<br>業<br>選<br>修 | 物聯網系統概論    | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 競賽機器人      | 2   | 2  |     |    |                  | 網路安全       | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 資訊科技應用趨勢   | 2   | 2  |     |    |                  | 資料庫實務      | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 辦公室軟體應用    |     |    | 2   | 2  |                  | 網頁程式設計     | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 競賽機器人實務    |     |    | 2   | 2  |                  | 演算法        | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 物件導向程式設計   |     |    | 3   | 3  |                  | 雲端系統管理     | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  | 多媒體概論      |     |    | 3   | 3  |                  | 自媒體實務應用    | 3   | 3  |     |    |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 物聯網系統程式設計  |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 深度學習       |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 行動裝置程式設計   |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 網路安全實務     |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 智慧農業概論     |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 網際服務軟體工程   |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  | 雲端運算       |     |    | 3   | 3  |
|                  |            |     |    |     |    |                  |            |     |    |     |    |                  |            |     |    |     |    |
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| 第四學年(116)        |            |     |    |     |    |
|------------------|------------|-----|----|-----|----|
|                  | 科目         | 上學期 |    | 下學期 |    |
|                  |            | 學分  | 時數 | 學分  | 時數 |
| 校<br>必<br>修      |            |     |    |     |    |
|                  | 小計         |     |    |     |    |
| 院<br>必<br>修      |            |     |    |     |    |
|                  | 小計         |     |    |     |    |
| 專<br>業<br>必<br>修 | 實務專題(二)    | 1   | 1  |     |    |
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|                  |            |     |    |     |    |
|                  | 小計         | 1   | 1  | 0   | 0  |
|                  | 資訊實務(校外實習) | 9   | 9  |     |    |
|                  | 資訊技術(校外實習) |     |    | 9   | 9  |
|                  | 資料科學       | 3   | 3  |     |    |
|                  | 數位影像處理     | 3   | 3  |     |    |
|                  | 軟體專案管理     | 3   | 3  |     |    |
| 專<br>業<br>選<br>修 | 證照專題       |     |    | 3   | 3  |
|                  | 資料探勘       |     |    | 3   | 3  |
|                  | 物聯網安全      |     |    | 3   | 3  |
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## 【科目類別】

通識科目(分類通識):校必修

共同科目(體育):校必修

專業科目:院必修、專業必修、專業選修

| 【科目類別】    |      | 學分  | 時數  |
|-----------|------|-----|-----|
| 通識科目、共同科目 | 校必修  | 16  | 16  |
|           | 院必修  | 28  | 28  |
| 專業科目      | 專業必修 | 43  | 43  |
|           | 專業選修 | 41  | 41  |
| 合計        |      | 128 | 128 |

## 【注意事項】

- 1.最低畢業學分:128學分,其中專業選修41學分(本系至少29學分,其餘可跨系)。
- 2.一、二、三年級每學期修課16~30學分,四年級每學期修課9~30學分。
- 3.表列專業選修課程,得依實際情況進行調整。
- 4.請依本校「學生基本能力與畢業門檻實施辦法」實施。
- 5.校外實習課程,請依相關實施要點辦理。
- 6.畢業年級相當於國內高級中等學校二年級之國外或香港、澳門同類同級學校畢業生,以同等學歷修讀本校學士學位者,最低畢業學分:140學分,可延長修業年限三年。
- 7.軟體工程學程、人工智慧微學程之所有選修學分皆可承認列入專業選修學分。
- 8.四年級上、下學期校外實習各選修9學分,科目名稱為資訊實務、資訊技術,僅限參與校外實習者選修。
- 9.本系學生必須於大三下學期以及大四上學期修習實務專題課程,若修習未通過者,仍需於後續之學期中加選本系之實務專題課程,直至修習通過滿兩學期之實務專題課程為止,方可認定通過實務專題(一)與實務專題(二)課程之修習。

## 資工系課務規劃委員會

資工系主任陳美支

工程學院院長戴任詔

代



MUST Curriculum Planning for Undergraduate Students for Academic Years 2024-2028  
Department of Computer Science and Information Engineering

| 1 <sup>st</sup> year(113)  |                                    |                          |     |                          | 2 <sup>nd</sup> year(114)     |                                |                                  |                          |                         | 3 <sup>rd</sup> year(115) |          |                                        |                               |                          |                  |                          |     |
|----------------------------|------------------------------------|--------------------------|-----|--------------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|-------------------------|---------------------------|----------|----------------------------------------|-------------------------------|--------------------------|------------------|--------------------------|-----|
|                            | Course                             | 1 <sup>st</sup> semester |     | 2 <sup>nd</sup> semester |                               |                                | Course                           | 1 <sup>st</sup> semester |                         | 2 <sup>nd</sup> semester  |          |                                        | Course                        | 1 <sup>st</sup> semester |                  | 2 <sup>nd</sup> semester |     |
|                            |                                    | Cr.                      | hr. | Cr.                      | hr.                           |                                |                                  | Cr.                      | hr.                     | Cr.                       | hr.      |                                        |                               | Cr.                      | hr.              | Cr.                      | hr. |
| MUST Core Required Courses | Classified general Education       | 2                        | 2   | 2                        | 2                             | MUST Core Required Courses     | Classified general Education     | 2                        | 2                       | 2                         | 2        | MUST Core Required Courses             |                               |                          |                  |                          |     |
|                            | Classified general Education       | 2                        | 2   | 2                        | 2                             |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            | Physical Education                 | 2                        | 2   | 2                        | 2                             |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            | Subtotal                           | 6                        | 6   | 6                        | 6                             |                                | Subtotal                         | 2                        | 2                       | 2                         | 2        |                                        | Subtotal                      | 0                        | 0                | 0                        | 0   |
| College compulsory courses | Calculus(I)(II)                    | 3                        | 3   | 3                        | 3                             | College compulsory courses     | Technical English(III)(IV)       | 2                        | 2                       | 2                         | 2        | College compulsory courses             | Artificial Intelligence       | 3                        | 3                |                          |     |
|                            | Physics(I)(II)                     | 2                        | 2   | 2                        | 2                             |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            | Applied Chinese(I)(II)             | 2                        | 2   | 2                        | 2                             |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            | Technical English(I)(II)           | 2                        | 2   | 2                        | 2                             |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            | C Programming(I)                   | 3                        | 3   |                          |                               |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
| Compulsory courses         | Subtotal                           | 12                       | 12  | 9                        | 9                             | Compulsory courses             | Subtotal                         | 2                        | 2                       | 2                         | 2        | Compulsory courses                     | Subtotal                      | 3                        | 3                | 0                        | 0   |
|                            | C Programming(II)                  |                          |     | 3                        | 3                             |                                | Java Programming                 | 3                        | 3                       |                           |          |                                        | Operating System              | 2                        | 2                |                          |     |
|                            | Introduction to Computer Science   | 2                        | 2   |                          |                               |                                | Digital Logic Design and Lab     | 3                        | 3                       |                           |          |                                        | Applications ofPython Program | 3                        | 3                |                          |     |
|                            | Practice of Basic Digital Circuits | 2                        | 2   |                          |                               |                                | Data Structures                  | 3                        | 3                       |                           |          |                                        | Software Engineering          |                          |                  | 3                        | 3   |
|                            | Practice of UNIX Operating System  |                          |     | 2                        | 2                             |                                | Computer Networks                | 3                        | 3                       |                           |          |                                        | Computer Architectures        |                          |                  | 2                        | 2   |
|                            | Ethics for Engineers               |                          |     | 2                        | 2                             |                                | Introduction to Database Systems |                          |                         | 3                         | 3        |                                        | Special Topic Project(I)      |                          |                  | 1                        | 1   |
|                            |                                    |                          |     |                          | Embedded Microcomputer System |                                |                                  |                          | 2                       | 2                         |          |                                        |                               |                          |                  |                          |     |
|                            |                                    |                          |     |                          | Information Mathematics       |                                |                                  |                          | 3                       | 3                         |          |                                        |                               |                          |                  |                          |     |
|                            |                                    |                          |     |                          | Subtotal                      |                                | 12                               | 12                       | 8                       | 8                         | Subtotal |                                        | 5                             | 5                        | 6                | 6                        |     |
|                            | Elective Courses                   |                          |     |                          |                               |                                |                                  | Elective Courses         | Applications of UNIX OS | 2                         | 2        |                                        |                               |                          | Elective Courses | Introduction to IoT      | 3   |
|                            |                                    |                          |     |                          |                               | Competition Robot              | 2                                |                          | 2                       |                           |          | Network Security                       | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | IT Application Trends          | 2                                |                          | 2                       |                           |          | Practice of Database Management System | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | Application of Office Software |                                  |                          |                         | 2                         | 2        | Web Programming                        | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | Practice of Competition Robot  |                                  |                          |                         | 2                         | 2        | Algorithms                             | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | Practice of Java Programming   |                                  |                          |                         | 3                         | 3        | Mobile Devices Programming             | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | Website Programming            |                                  |                          |                         | 3                         | 3        | Self-media application                 | 3                             | 3                        |                  |                          |     |
|                            |                                    |                          |     |                          |                               | Introduction to Multi-Media    |                                  |                          |                         | 3                         | 3        | IoT System Programming                 |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          | Smart Agriculture                      |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          | Deep Learning                          |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          | Network Security Practice              |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          | Internet Service Software Engineering  |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          | Cloud Computing                        |                               |                          |                  | 3                        | 3   |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |
|                            |                                    |                          |     |                          |                               |                                |                                  |                          |                         |                           |          |                                        |                               |                          |                  |                          |     |

| 4 <sup>th</sup> year(116)  |                                               |                          |     |                          |     |
|----------------------------|-----------------------------------------------|--------------------------|-----|--------------------------|-----|
|                            | Course                                        | 1 <sup>st</sup> semester |     | 2 <sup>nd</sup> semester |     |
|                            |                                               | Cr.                      | hr. | Cr.                      | hr. |
| MUST Core Required Courses |                                               |                          |     |                          |     |
|                            | Subtotal                                      | 0                        | 0   | 0                        | 0   |
| College compulsory courses |                                               |                          |     |                          |     |
|                            | Subtotal                                      | 0                        | 0   | 0                        | 0   |
| General education          |                                               |                          |     |                          |     |
|                            | Subtotal                                      | 0                        | 0   | 0                        | 0   |
| Compulsory courses         | Special Topic Project(II)                     | 1                        | 1   |                          |     |
|                            |                                               |                          |     |                          |     |
|                            |                                               |                          |     |                          |     |
|                            |                                               |                          |     |                          |     |
|                            | Subtotal                                      | 1                        | 1   | 0                        | 0   |
| Elective Courses           | Information Practice(Off-campus Internship)   | 9                        | 9   |                          |     |
|                            | Information Technology(Off-campus Internship) |                          |     | 9                        | 9   |
|                            | Data Science                                  | 3                        | 3   |                          |     |
|                            | Image processing                              | 3                        | 3   |                          |     |
|                            | Software Project Management                   | 3                        | 3   |                          |     |
|                            | Certified Project                             |                          |     | 3                        | 3   |
|                            | Data Mining                                   |                          |     | 3                        | 3   |
|                            | Security of IoT                               |                          |     | 3                        | 3   |

| Item                          | Cr.        | hr.        |
|-------------------------------|------------|------------|
| MUST Core Required Courses    | 16         | 16         |
| College compulsory courses    | 28         | 28         |
| Department compulsory courses | 43         | 43         |
| Department Elective Courses   | 41         | 41         |
| <b>Total</b>                  | <b>128</b> | <b>128</b> |

Cr./hr.=Credit/hour

Remarks:

- Minimum credits required for graduation: 128 credits including 41 elective credits. No fewer than 29 CSIE professional elective credits are required.
- In the first three years, students must take 16-30 credits per semester, and 9-30 credits per semester in the 4<sup>th</sup> year.
- Elective courses are subject to change if necessary.
- Implement according to the school's "Implementation Measures for Students' Basic Abilities and Graduation Thresholds".
- For off-campus internship courses, follow the relevant implementation points.
- Students having graduated from a foreign country, including Hong Kong and Macau, with the equivalent of the second year of high school study of the ROC's high school sophomore level, or with a high school equivalent degree, need to take 140 credits credits). The program can be extended up to 3 academic years.
- All courses taken in the Software Engineering Program and Artificial Intelligence Micro Program can be approved as professional elective credits.
- There are 9 credits of off-campus internship electives in the first and second semesters of the fourth grade. The subjects are Information Practice and Information Technology. They can only be taken by those who participate in off-campus internships.
- The Special Topic Project(I) and the Special Topic Project(II) are both compulsory courses in different semesters. In order to graduate, each student must take Special Topic Project credits in two separate semesters.

資工系課務規劃委員會

資工系 主任 陳美支

工程學院 院長 戴任詔

代