

明志科技大學「114入學年」工業人工智慧學士學位學程四技(日)課表

115/07/07 校課程委員會審議通過  
115/07/02 中心課程委員會審議通過  
115/07/02 學程課程委員會審議通過

|                    |                   | 科目名稱                                                                                               | 一上  |    | 一下  |    | 二上 |    | 二下 |    | 三上 |    | 三下 |     | 四上 |    | 四下 |    |                                                 |
|--------------------|-------------------|----------------------------------------------------------------------------------------------------|-----|----|-----|----|----|----|----|----|----|----|----|-----|----|----|----|----|-------------------------------------------------|
|                    |                   |                                                                                                    | 學分  | 時數 | 學分  | 時數 | 學分 | 時數 | 學分 | 時數 | 學分 | 時數 | 學分 | 時數  | 學分 | 時數 | 學分 | 時數 |                                                 |
| 共同必修<br>(應修畢共42學分) | 基礎課程<br>(開設22學分)  | 全民國防教育軍事訓練(一)(All-out Defense Education Military Training I)                                       | 0.5 | 2  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 永續發展與社會實踐(Sustainable Development and Social Practice)                                             | 1   | 1  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 體育(一)(Physical Education I)                                                                        | 1   | 2  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 文學鑑賞與情意表達(Appreciation of Literature and Emotional Expression)                                     | 2   | 2  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 生活與職場英文(一)(English for Life and Business I)                                                        | 3   | 3  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 全民國防教育軍事訓練(二)(All-out Defense Education Military Training II)                                      |     |    | 0.5 | 2  |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 體育(二)(Physical Education II)                                                                       |     |    | 1   | 2  |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 藝文涵養與社會參與(Art Literacy and Social Participation)                                                   |     |    | 2   | 2  |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 生活與職場英文(二)(English for Life and Business II)                                                       |     |    | 3   | 3  |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 英文實務(一)(Practical English I)                                                                       |     |    |     |    |    |    |    |    |    |    |    |     | 1  | 2  |    |    |                                                 |
|                    |                   | 英語聽講(一)(Aural-Oral English I)                                                                      |     |    |     |    | 1  | 2  |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 體育(三)(Physical Education III)                                                                      |     |    |     |    | 1  | 2  |    |    |    |    |    |     |    |    |    |    | 於大二至大四，採興趣選項教學                                  |
|                    |                   | 歷史思維與多元文化領域(Historical Thinking and Multicultural Studies)                                         |     |    |     |    | 2  | 2  |    |    |    |    |    |     |    |    |    |    | 「近代世界的形成」、「歷史思辨」、「數位科技與應用歷史」課程三擇一修課             |
|                    |                   | 英文實務(二)(Practical English II)                                                                      |     |    |     |    |    |    |    |    |    |    |    |     |    |    | 1  | 2  |                                                 |
|                    |                   | 英語聽講(二)(Aural-Oral English II)                                                                     |     |    |     |    |    |    | 1  | 2  |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 體育(四)(Physical Education IV)                                                                       |     |    |     |    |    |    | 1  | 2  |    |    |    |     |    |    |    |    | 於大二至大四，採興趣選項教學                                  |
|                    |                   | 合計                                                                                                 | 7.5 | 10 | 6.5 | 9  | 4  | 6  | 2  | 4  | 0  | 0  | 0  | 0   | 1  | 2  | 1  | 2  | 22                                              |
|                    | 核心課程<br>(開設2學分)   | 大學之道(The Goal of Unirersity Education)                                                             | 1   | 2  |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 設計思考(Design Thinking)                                                                              |     |    | 1   | 1  |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |
|                    |                   | 合計                                                                                                 | 1   | 2  | 1   | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | 0  | 0  | 0  | 0  | 2                                               |
|                    | 校共同課程<br>(開設18學分) | 多元學習前素養訓練模組(Pre-Multiple Learning Literacy Training)                                               |     |    |     |    |    |    |    |    | 1  | 1  |    |     |    |    |    |    | 「專業研究實習前素養訓練」、海外交換學習前素養訓練」、工讀實務實習前素養訓練」課程三擇一修課。 |
|                    |                   | 多元學習模組(一) (Multi-Learning Module I)                                                                |     |    |     |    |    |    |    |    |    |    | 4  | 40  |    |    |    |    | 「工讀實務實習(一)」、「專業研究實習(一)」、「海外交換學習(一)」課程三擇一修課。     |
|                    |                   | 多元學習模組(二) (Multi-Learning Module II)                                                               |     |    |     |    |    |    |    |    |    |    | 4  | 40  |    |    |    |    |                                                 |
|                    |                   | 多元學習模組(三) (Multi-Learning Module III)                                                              |     |    |     |    |    |    |    |    |    |    | 4  | 40  |    |    |    |    |                                                 |
|                    |                   | 多元學習模組(四) (Multi-Learning Module IV)                                                               |     |    |     |    |    |    |    |    |    |    | 5  | 40  |    |    |    |    |                                                 |
|                    |                   | 合計                                                                                                 | 0   | 0  | 0   | 0  | 0  | 0  | 0  | 0  | 1  | 1  | 17 | 160 | 0  | 0  | 0  | 0  | 18                                              |
| 共同（應修畢至少8學分）       | 通識選修              | 一、開課清冊請參考「通識課程彙總表」<br>二、通識五類型課程「語言與全球化、人文藝術、社會研究與未來趨勢、自然科學與環境永續、自主學習。」<br>通識選修至少8學分(五類型，任選四類型各2學分) |     |    |     |    |    |    |    |    |    |    |    |     |    |    |    |    |                                                 |

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |   |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---|---|----|----|----|----|----|----|---|---|----|----|---|---|-------------------|-------------------|--------------------|--------------------|
| 專業必修<br>(應修畢共50學分)                                   | 中心專業必修<br>(開設20學分)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 微積分(一)(Calculus I)                                                                               | 3 | 3 |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 普通物理(General Physics)                                                                            | 3 | 3 |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 普通化學(General Chemistry)                                                                          | 3 | 3 |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 微積分(二)(Calculus II)                                                                              |   |   | 3  | 3  |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(一)(Interdisciplinary Capstone Course I)                                                  |   |   | 1  | 2  |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(二)(Interdisciplinary Capstone Course II)                                                 |   |   |    |    | 1  | 2  |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(三)(Interdisciplinary Capstone Course III)                                                |   |   |    |    |    |    | 1  | 2  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(四)(Interdisciplinary Capstone Course IV)                                                 |   |   |    |    |    |    |    |    | 1 | 2 |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(五)(Interdisciplinary Capstone Course V)                                                  |   |   |    |    |    |    |    |    |   |   |    |    | 1 | 2 |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 工程倫理與工業人工智慧講座(一)(Special Topics on Engineering Ethics and Industrial Artificial Intelligence I)  |   |   |    |    |    |    |    |    |   |   |    |    | 1 | 2 |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 工程倫理與工業人工智慧講座(二)(Special Topics on Engineering Ethics and Industrial Artificial Intelligence II) |   |   |    |    |    |    |    |    |   |   |    |    |   |   | 1                 | 2                 |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 跨領域頂石專題(六)(Interdisciplinary Capstone Course VI)                                                 |   |   |    |    |    |    |    |    |   |   |    |    |   |   | 1                 | 2                 |                    |                    |
|                                                      | 合計                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9                                                                                                | 9 | 4 | 5  | 1  | 2  | 1  | 2  | 1  | 2 | 0 | 0  | 2  | 4 | 2 | 4                 | 20                |                    |                    |
|                                                      | 學程專業必修<br>(開設30學分)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | C程式語言(C Programming Languages)                                                                   | 3 | 3 |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   | 資訊工程模組<br>(開設15學分) |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Python程式設計(Python Programming)                                                                   |   |   | 3  | 3  |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 網路概論(Introduction to Network)                                                                    |   |   | 3  | 3  |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 資料結構(Data Structures)                                                                            |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 演算法(Algorithms)                                                                                  |   |   |    |    |    |    | 3  | 3  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 工業人工智慧概論(Introduction to Industrial Artificial Intelligence)                                     | 2 | 2 |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   | 智慧辨識模組<br>(開設8學分)  |                    |
| 線性代數(Linear Algebra)                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   | 3 | 3  |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
| 機器學習(Machine Learning)                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |   |    |    |    | 3  | 3  |    |   |   |    |    |   |   |                   |                   |                    |                    |
| 工程機率與統計(一)(Engineering Probability and Statistics I) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |   | 3  | 3  |    |    |    |    |   |   |    |    |   |   | 資料科學模組<br>(開設3學分) |                   |                    |                    |
| 工業物聯網概論( Introduction to Internet of Things)         | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                |   |   |    |    |    |    |    |    |   |   |    |    |   |   |                   | 智慧機電模組<br>(開設4學分) |                    |                    |
| 智慧機械概論(Introduction of Automated Machine)            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                                                                                |   |   |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
| 合計                                                   | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9                                                                                                | 9 | 9 | 6  | 6  | 6  | 6  | 0  | 0  | 0 | 0 | 0  | 0  | 0 | 0 | 0                 | 30                |                    |                    |
| 專業選修<br>(應修畢至少48學分)                                  | 學程專業選修<br>(開設68學分)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 視窗程式設計(Windows Programming Design)                                                               |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   | 資訊工程模組<br>(開設24學分) |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 進階Python程式設計(Advanced Python Programming)                                                        |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 網路實務(Network Practice)                                                                           |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 數位邏輯(Digital Logic)                                                                              |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 網頁程式語言設計(Web Programming Languages)                                                              |   |   |    |    |    |    | 3  | 3  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 作業系統(Operating Systems)                                                                          |   |   |    |    |    |    |    |    | 3 | 3 |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 資訊安全(Information Security)                                                                       |   |   |    |    |    |    |    |    | 3 | 3 |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 雲端技術實務(Cloud Technology Practice)                                                                |   |   |    |    |    |    |    |    |   |   |    |    | 3 | 3 |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 數位訊號處理(Digital Signal Processing)                                                                |   |   |    |    | 3  | 3  |    |    |   |   |    |    |   |   |                   |                   | 智慧辨識模組<br>(開設18學分) |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 數位影像處理(Digital Image Processing)                                                                 |   |   |    |    |    |    | 3  | 3  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 深度學習(Deep Learning)                                                                              |   |   |    |    |    |    |    |    | 3 | 3 |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 電腦視覺(Computer Vision)                                                                            |   |   |    |    |    |    |    |    |   |   |    | 3  | 3 |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 生成式人工智慧(Generative Artificial Intelligence)                                                      |   |   |    |    |    |    |    |    |   |   |    |    |   |   | 3                 | 3                 |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 自然語言處理(Natural Language Processing)                                                              |   |   |    |    |    |    |    |    |   |   |    |    | 3 | 3 |                   |                   |                    | 資料科學模組<br>(開設16學分) |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 資料庫實務(Database Practices)                                                                        |   |   |    |    |    |    | 3  | 3  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 工程機率與統計(二)(Engineering Probability and Statistics II)                                            |   |   |    |    |    |    | 3  | 3  |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 最佳化方法(Optimization Methods)                                                                      |   |   |    |    |    |    |    |    |   |   |    |    |   |   | 3                 | 3                 |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 人工智慧應用規劃實務(Artificial Intelligence Application Plan Practices)                                   |   |   |    |    |    |    |    |    |   |   |    |    | 1 | 1 |                   |                   |                    |                    |
|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 時間序列分析(Time Series Analysis)                                                                     |   |   |    |    |    |    |    |    |   |   |    |    |   |   | 3                 | 3                 |                    |                    |
|                                                      | AI智慧決策與營運分析(AI-Driven Decision Making and Business Analytics)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |   |   |    |    |    |    |    |    |   |   |    | 3  | 3 |   |                   |                   |                    |                    |
|                                                      | 微控制器實務(Microprocessor Controlled Unit Practice)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |   |    |    |    | 3  | 3  |    |   |   |    |    |   |   |                   |                   | 智慧機電模組<br>(開設9學分)  |                    |
|                                                      | 可程式邏輯控制實務(Programmable Logic Controller Practice)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |   |   |    |    |    |    |    | 3  | 3 |   |    |    |   |   |                   |                   |                    |                    |
|                                                      | 智慧製造技術(Smart Manufacturing Technology)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |   |   |    |    |    |    |    |    |   |   |    | 3  | 3 |   |                   |                   |                    |                    |
| 海外移地教學(Overseas Field Study)                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |   |    |    |    |    | 1  | 1  |   |   |    |    |   |   |                   |                   |                    |                    |
| 合計                                                   | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                | 0 | 0 | 15 | 15 | 15 | 15 | 13 | 13 | 0 | 0 | 16 | 16 | 9 | 9 | 68                |                   |                    |                    |
| 課程總表<br>備註                                           | 1.最低畢業學分最少應修畢148學分，認定如下：<br>(1)共同必修42學分，通識選修至少8學分(五類型，任選四類型各2學分)，專業必修50學分(含中心專業必修20學分、學程專業必修30學分)，專業選修48學分，合計148學分。<br>(2)學程專業選修中，共有「資料科學模組」、「資訊工程模組」、「智慧辨識模組」和「智慧機電模組」四模組，可跨組選修。<br>2.修課限制：每學期選課上限為 27 學分，大一、大二選課下限為 16 學分，大三、大四選課下限為9學分。<br>3.必修體育(三)、體育(四)，於大二至大四，採興趣選項教學。<br>1.A minimum of 148 credits are required for graduation, and at least one credit program must be completed. Standards for recognition are listed as follows:<br>(1)42 credits from common required courses, at least 8 credits from elective General Education courses (choose four categories from the given five categories; 2 credits for each category) , and 98 credits from major required/elective courses, totaling 148 credits in all.<br>(2)In the IAI program, there are four modules: “Data Science Module,” “Information Engineering Module,” “Intelligent Recognition Module,” and “Intelligent Electromechanical Module.” Students may take courses across different modules.<br>2.Course Restrictions: The maximum number of credits allowed per semester is 27. For freshmen and sophomores, the minimum number of credits for course enrollment is 16, while for juniors and seniors, it is 9.<br>3.Students are required to take Physical Education (III) and Physical Education (IV). PE courses can be selected based on students' interest in their second to fourth years. |                                                                                                  |   |   |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |
|                                                      | 通識總表<br>備註                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |   |   |    |    |    |    |    |    |   |   |    |    |   |   |                   |                   |                    |                    |