**111學年國際人工智慧管理研究所課程流程圖**

**111 School Year**

Curriculum Flowchart\_International Graduate Institute of Artificial Intelligence (IAI)

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| --- | --- | --- |
|  | **第一學年First Academic Year** | **第二學年Second Academic Year** |
| **第一學期****First Semester** | **第二學期****Second Semester** | **第一學期****First Semester** | **第二學期****Second Semester** |
| **必修****Compulsory****18** | 人工智慧Artificial Intelligence3-0-3 | 深度學習Deep Learning3-0-3 | 碩士論文Thesis3-0-3 | 碩士論文Thesis3-0-3 |
| 科技論文閱讀與寫作Technical Reading and Writing2-0-2 | 人工智慧書報討論(I)Seminar in Artificial Intelligence (I)2-0-2 | 人工智慧書報討論(II)Seminar in Artificial Intelligence (II)2-0-2 |  |
| **選修** **Elective****15** | **理論與應用領域Theory and Application Field** |
| 資料探勘Data Mining3-0-3 | 機器學習Machine Learning3-0-3 | 人工智慧於財務金融Artificial Intelligence in Finance3-0-3 | 人機互動Human-Computer Interaction3-0-3 |
| 高等資料結構與演算法Advanced Data Structures and algorithms 3-0-3 | 最佳化理論與應用Optimization Theory and Applications3-0-3 | 人工智慧於資訊安全Artificial Intelligence in Computer Security3-0-3 | 物聯網應用Applications of Internet of Things3-0-3 |
| 決策分析Decision Analysis3-0-3 | 分散式計算Distributed Computing3-0-3 | 人工智慧於醫療Artificial Intelligence in Medicine3-0-3 |  |
|  | 人工智慧之數學基礎Mathematics for Artificial Intelligence3-0-3 |  |  |
| **電腦視覺領域Computer Vision Field** |
| 數位影像處理Digital Image Processing3-0-3 |  | 高等電腦視覺Advanced Computer Vision3-0-3 |  |
| **自然語言領域Natural Language Field** |
|  | 自然語言處理Natural Language Processing3-0-3 |  |  |
| **機器人領域Robotic Field** |
|  |  | 機器人學Robotics3-0-3 | 無人機與自駕車專題Special Topics in Unmanned Aerial Vehicles and Autonomous Vehicles3-0-3 |

**備註Notes：**

1. 本所承認外系研究所課程相同或相近且以英文授課之課程學分，其餘英文授課之外系課程以六學分為限。

IAI department admits the credits of all the courses with the same or similar titles with IAI’s from other departments. Otherwise, other courses from other departments are admitted for 6 credits at most. The admitted courses must be taught in English.

1. 碩士班英語畢業門檻為新多益（NEW TOEIC）測驗成績700分以上或其他具同等效力之英語、第二外語成績證明。

Postgraduates need to reach one of the requirements for English ability before graduation: (1) TOEIC score of 700 or above, (2) equivalent to CEFR B2 or above, (3) Second foreign language can be an alternative to English.