**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)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **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 Intelligence  3-0-3 | 深度學習  Deep Learning  3-0-3 | 碩士論文  Thesis  3-0-3 | 碩士論文  Thesis  3-0-3 |
| 科技論文閱讀與寫作  Technical Reading and Writing  2-0-2 | 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 Mining  3-0-3 | 機器學習  Machine Learning  3-0-3 | 人工智慧於財務金融  Artificial Intelligence in Finance  3-0-3 | 人機互動  Human-Computer Interaction  3-0-3 |
| 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 Applications  3-0-3 | 人工智慧於資訊安全  Artificial Intelligence in Computer Security  3-0-3 | 物聯網應用  Applications of Internet of Things  3-0-3 |
| 決策分析  Decision Analysis  3-0-3 | 分散式計算  Distributed Computing  3-0-3 | 人工智慧於醫療  Artificial Intelligence in Medicine  3-0-3 |  |
|  | 人工智慧之數學基礎  Mathematics for Artificial Intelligence  3-0-3 |  |  |
| **電腦視覺領域Computer Vision Field** | | | |
| 數位影像處理  Digital Image Processing  3-0-3 |  | 高等電腦視覺  Advanced Computer Vision  3-0-3 |  |
| **自然語言領域Natural Language Field** | | | |
|  | 自然語言處理  Natural Language Processing  3-0-3 |  |  |
| **機器人領域Robotic Field** | | | |
|  |  | 機器人學  Robotics  3-0-3 | 無人機與自駕車專題  Special Topics in Unmanned Aerial Vehicles and Autonomous Vehicles  3-0-3 |

**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.