



課 綱 Course Outline
企業管理學系博士班資訊管理組

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| 中文課程名稱 Course Name in Chinese | 人工智慧 | | | | |
| 英文課程名稱 Course Name in English | Artificial Intelligence | | | | |
| 科目代碼 Course Code | BM__80600 | 班 別 Degree | 博士班 Ph. D. | | |
| 修別 Type | 選修 Elective | 學分數 Credit(s) | 3.0 | 時 數 Hour(s) | 3.0 |
| 先修課程 Prerequisite | | | | | |
| 課程目標 Course Objectives | | | | | |
| 介紹智慧型系統之理論、設計、實作與應用。 | | | | | |
| 系教育目標 Dept.'s Education Objectives | | | | | |
| 1 | 培育具備資訊技術解決問題思維能力之高級人才 Cultivate senior personnel with the capability of information technology to solve problems with thinking skills | | | | |
| 2 | 以資訊技術為核心，培育具有高度專業能力之技術人才 Cultivate professional personnel with the capability of information technology | | | | |
| 3 | 以管理為對象，培育具有創新、研發、企劃整合能力之高級人才 Cultivate senior personnel with the capability of innovation, research and development and integrated planning | | | | |
| 4 | 提供數位內容、電子商務與知識管理所需之人才 Cultivate personnel with the capability of digital content, electronic commerce and knowledge management | | | | |
| 5 | 培育符合國家與區域發展所需之資訊管理人才 Cultivate information management personnel and regional to meet the needs of national development | | | | |
| 系專業能力 Basic Learning Outcomes | | | | 課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives | |
| A | 培育具備資訊管理相關理論與應用的知識 Cultivate the knowledge of information management application | | | ○ | |

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| B | 培育具備邏輯推演、問題解決與獨立研究的能力 Cultivate the capability of logical deduction, problem solving and independent research | ● |
| C | 培養具備資訊專業知識與技能 Cultivate the professional ability and skill regarding information | ● |
| D | 培養具備資訊科技與管理領域之知識整合應用能力 Cultivate the integrated ability regarding information technology and management | ● |
| E | 培養具備創新思維、領導智能與國際觀的能力 Cultivate the ability regarding innovative thinking, leadership and international view | ● |

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

課程大綱
Course Outline

1. 人工智慧理論、應用、程式語言與發展。
2. 人工智慧語言簡介。
3. 智慧型遊戲。
4. 知識表示法。
5. 專家系統。
6. 電腦視覺。
7. 機器學習。
8. 類神經網路

資源需求評估 (師資專長之聘任、儀器設備的配合 . . . 等)
Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)

具資訊管理或資訊工程專長之師資與相關軟體工具。

課程要求和教學方式之建議
Course Requirements and Suggested Teaching Methods

課堂講授為主，輔以LISP, Prolog 等人工智慧語言及類神經網路之系統習作

其他
Miscellaneous

參考書目:

1. "Artificial Intelligence / Structures and Strategies for Complex problem Solving"
2. Artificial intelligence, 3rd ed