



課 綱 Course Outline

資訊工程學系人工智慧與創新應用碩士班

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| 中文課程名稱 Course Name in Chinese | 推薦系統 | | | | |
| 英文課程名稱 Course Name in English | Recommender System | | | | |
| 科目代碼 Course Code | AIIA50070 | 班 別 Degree | 碩士班 Master' s | | |
| 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 | | | | | |
| The goal of this course is to teach the basic methods and theories of recommendation systems and cultivate the practical ability to develop basic recommendation systems. | | | | | |
| 系教育目標 Dept.' s Education Objectives | | | | | |
| 1 | 探究學科知識，善用專業技能 Explore academic knowledge, utilize professional skills. | | | | |
| 2 | 訓練評析思考，創新解決問題 Exercise analytical thinking, enhance creative problem solving skills. | | | | |
| 3 | 學習團隊分工，強化溝通表達 Participate in teamwork, strengthen communication skills. | | | | |
| 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 | 統合資工知識技術之能力 Ability to integrate knowledge and technologies of computer science and information engineering. | | | ● | |
| B | 設計技術理論驗證實驗之能力 Ability to design and conduct science experiments and to validate hypotheses. | | | ● | |
| C | 資訊軟硬體設計開發之能力 Ability to design and develop computer software and hardware. | | | ○ | |
| D | 團隊專案開發之能力 Ability to design and develop team projects. | | | ● | |

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| E | 批判性思考與創新研發之能力 Ability of analytical thinking, creative research planning, and innovative development. | ● |
| 圖示說明Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated | | |
| 課程大綱 Course Outline | | |
| 1. Introduction 2. Basic concepts 2.1 collaborative recommendation 2.2 content-based recommendation 2.3 knowledge-based recommendation 2.4 hybrid recommendation 3. Evaluating recommender systems 4. Advanced issues in recommendation 5. Tools for building a recommender system | | |
| 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.) | | |
| Existing suitable full-time teachers | | |
| 課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods | | |
| Class lectures, assignments, lab sessions and term project | | |
| 其他 Miscellaneous | | |
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