National University of Kaohsiung, Department of Information Management, Master's Program Required and Elective Courses List

For students admitted after the 2022 Academic Year

民國96年3月5日95學年度第2學期第1次系務會議修正通過

民國96年4月30日95學年度第2學期第2次系務暨課程會議修正通過

民國101年12月3日101學年度第1學期第3次課程委員會議修正通過

民國101年10月29日101學年度第1學期第3次系務會議與課程會議修正通過

民國101年12月24日101學年度第1學期第五次系務會議修正通過

民國104年12月7日104學年度第1學期第1次課程委員會修正通過

民國105年5月11日104學年度第2學期第1次院程程委員會通過

民國105年5月26日104學年度第2學期校課程會議備查

民國106年9月18日106學年度第1學期第1次課程委員會修正通過

民國106年11月09日106學年度第1學期第1次院程程委員會通過

民國106年11月30日106學年度第1學期校課程會議備查

民國110年12月8日110學年度第1學期教務會議備查

| **Required courses：15 credits** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Course Name | Type | Credits | S1 Year 1 | S2 Year 1 | S1 Year 2 | S2 Year 2 | Note |
| Research Methodology(I) | Required | 3 |  |  |  |  |  |
| Information Management | Required | 3 |  |  |  |  |  |
| Seminar for Information Management Issues(I) | Required | 1 |  |  |  |  |  |
| Research Methodology(II) | Required | 3 |  |  |  |  |  |
| Introduction to Information Technology | Required | 3 |  |  |  |  |  |
| Seminar for Information Management Issues(II) | Required | 1 |  |  |  |  |  |
| Seminar for Information Management Issues(II) | Required | 1 |  |  |  |  |  |

| **Elective courses 15 credits** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Course Name | Type | Credits | S1 Year 1 | S2 Year 1 | S1 Year 2 | S2 Year 2 | Note |
| Special Topics in Information Management(I) | Elective | 1 |  |  |  |  |  |
| Information Technology and Corporate Strategy | Elective | 3 |  |  |  |  |  |
| Information Technology Trend and Practical Business English | Elective | 3 |  |  |  |  |  |
| Electronic Commerce Research | Elective | 3 |  |  |  |  |  |
| Investment and financial management practice | Elective | 3 |  |  |  |  |  |
| Information Technology & Service Innovation | Elective | 3 |  |  |  |  |  |
| Special Topics in Information Technology(I) | Elective | 1 |  |  |  |  |  |
| Information Retrieval | Elective | 3 |  |  |  |  |  |
| Advanced Database Management | Elective | 3 |  |  |  |  |  |
| Advance Network Management | Elective | 3 |  |  |  |  |  |
| Information and Technology Management | Elective | 3 |  |  |  |  |  |
| Data Analytics and Visualization | Elective | 3 |  |  |  |  |  |
| Information Systems Research | Elective | 3 |  |  |  |  |  |
| Deep Neural Network I | Elective | 3 |  |  |  |  |  |
| Deep Reinforcement Learning I | Elective | 3 |  |  |  |  |  |
| Special Topics in Information Management(II) | Elective | 1 |  |  |  |  |  |
| Web Consumer Behavior | Elective | 3 |  |  |  |  |  |
| Knowledge Management Research | Elective | 3 |  |  |  |  |  |
| Supply Chain Management | Elective | 3 |  |  |  |  |  |
| Digital Marketing | Elective | 3 |  |  |  |  |  |
| English Presentation Skills | Elective | 3 |  |  |  |  |  |
| Information Technology and Business Models | Elective | 3 |  |  |  |  |  |
| Enterprise Visiting | Elective | 4 |  |  |  |  |  |
| Special Topics in Information Technology(II) | Elective | 1 |  |  |  |  |  |
| Data Mining and Knowledge Discovery | Elective | 3 |  |  |  |  |  |
| Digital Games Design | Elective | 3 |  |  |  |  |  |
| Social media management and analysis | Elective | 3 |  |  |  |  |  |
| Internet of Things | Elective | 3 |  |  |  |  |  |
| Managerial Mathematics | Elective | 3 |  |  |  |  |  |
| Introduction to Deep Learning | Elective | 3 |  |  |  |  |  |
| Application of Deep Learning Techniques to Real World Problems | Elective | 3 |  |  |  |  |  |
| Unmanned Vehicle Design and Application | Elective | 3 |  |  |  |  |  |
| Indoor Localization Tracking and Unmanned Vehicle Application | Elective | 3 |  |  |  |  |  |
| Special Topics in Information Management(III) | Elective | 1 |  |  |  |  |  |
| Internship Ⅱ | Elective | 6 |  |  |  |  | Classes are only offered during the summer semester. |
| Internship I | Elective | 9 |  |  |  | |  |
| Internship Ⅲ | Elective | 3 |  |  |  | |  |
| Special Topics in Information Technology(III) | Elective | 1 |  |  |  |  |  |
| Special Topics in Information Management(IV) | Elective | 1 |  |  |  |  |  |
| Special Topics in Information Technology(IV) | Elective | 1 |  |  |  |  |  |
| Seminar for Information Management Issues(IV) | Elective | 1 |  |  |  |  |  |

1. Prerequisite courses(0 credits)：
   * Database Management、Systems Analysis and Design、Computer Network (Select two out of three).
   * Take at least two courses related to Program Design.
   * Business Management、Introduction to Information Management (Choose one out of two).
   * Statistics(II).
2. Each semester, course enrollment must be approved and signed by the advisor.
3. In elective courses, students must select at least one course from the management category and one course from the technical category.