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

For students admitted after the 2022 Academic Year

Approved and amended on March 5, 2007, by the 1nd Department Meeting of the 2nd Semester of the 95th Academic Year

Approved and amended on April 30, 2007, by the 2nd Department Meeting and Curriculum Meeting of the 2nd Semester of the 95th Academic Year

Approved and amended on October 29, 2012, by the 3nd Department Meeting and Curriculum Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 3, 2012, by the 3nd Department Curriculum Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 24, 2012, by the 5nd Department Meeting of the 1nd Semester of the 101th Academic Year

Approved and amended on December 7, 2015, by the 1nd Department Curriculum Meeting of the 1nd Semester of the 104th Academic Year

Approved and amended on May 11, 2016, by the 1nd College Curriculum Meeting of the 2nd Semester of the 104th Academic Year

Approved and Recorded on May 26, 2016, by the University Curriculum Meeting of the 2nd Semester of the 104th Academic Year

Approved and amended on April 27, 2020, by the 2nd Department Curriculum Meeting of the 2nd Semester of the 108th Academic Year

Approved and amended on May 12, 2020 by the 1nd College Curriculum Meeting of the 2nd Semester of the 108th Academic Year

Approved and amended on May 28, 2020 by the University Curriculum Meeting of the 2nd Semester of the 108th Academic Year

| **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.