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

For students admitted after the 2023 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109年4月27日108學年度第二學期第二次課程委員會會議修通過過

民國109年5月12日108學年度第二學期第一次院課程委員會通過

民國109年5月28日108學年度第二次校課程委員會會議通過

| **Required courses：72 credits** | | | | | | | | | | | |
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| Course Name | Type | Credits | S1 Year 1 | S2 Year 1 | S1 Year 2 | S2 Year 2 | S1 Year 3 | S2 Year 3 | S1 Year 4 | S2 Year 4 | Note |
| Economics | Required | 3 |  |  |  |  |  |  |  |  |  |
| Business Management | Required | 3 |  |  |  |  |  |  |  |  |  |
| Introduction to Computer | Required | 3 |  |  |  |  |  |  |  |  |  |
| Program Design | Required | 3 |  |  |  |  |  |  |  |  |  |
| Calculus | Required | 3 |  |  |  |  |  |  |  |  |  |
| Accounting | Required | 3 |  |  |  |  |  |  |  |  |  |
| Object-Oriented Programming(I) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Introduction to Information Management | Required | 3 |  |  |  |  |  |  |  |  |  |
| Object-Oriented Programming(II) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Statistics(I) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Computer Network | Required | 3 |  |  |  |  |  |  |  |  |  |
| Marketing Management | Required | 3 |  |  |  |  |  |  |  |  |  |
| Web Pages Programming | Required | 3 |  |  |  |  |  |  |  |  |  |
| Database Management | Required | 3 |  |  |  |  |  |  |  |  |  |
| Electronic Commerce | Required | 3 |  |  |  |  |  |  |  |  |  |
| Statistics(II) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Management Information Systems | Required | 3 |  |  |  |  |  |  |  |  |  |
| Data Structures | Required | 3 |  |  |  |  |  |  |  |  |  |
| Project Management | Required | 3 |  |  |  |  |  |  |  |  |  |
| Systems Analysis and Design | Required | 3 |  |  |  |  |  |  |  |  |  |
| Project Development(I) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Operating Systems | Required | 3 |  |  |  |  |  |  |  |  |  |
| Project Development(II) | Required | 3 |  |  |  |  |  |  |  |  |  |
| Information Ethics and Law | Required | 3 |  |  |  |  |  |  |  |  |  |

| **Elective courses 24 credits** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course Name | Type | Credits | S1 Year 1 | S2 Year 1 | S1 Year 2 | S2 Year 2 | S1 Year 3 | S2 Year 3 | S1 Year 4 | S2 Year 4 | Note |
| Network Planning and Management Study | Elective | 2 |  |  |  |  |  |  |  |  |  |
| Information Technology Trend and Practical Business English | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Data and Design Thinking | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Python Programing | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Customer Relationship and Service Management | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Organizational Behavior | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Social Media Management and Analysis | Elective | 3 |  |  |  |  |  |  |  |  |  |
| SCM and Enterprise Resource Planning | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Creative Thinking and Problem Solving | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Information Technology & Service Innovation | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Data Analysis Techniques and Applications | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Information and Technology Management | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Sustainable Commerce Research | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Smart Campus Information Technology Application Implementation Project | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Patent Information for Technology Management | Elective | 2 |  |  |  |  |  |  |  |  |  |
| Investment and Financial Management Practice | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Human Resource Management | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Mobile Commerce | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Advanced Network Protocol and Software Defined Network | Elective | 2 |  |  |  |  |  |  |  |  |  |
| Enterprise Visiting | Elective | 4 |  |  |  |  |  |  |  |  |  |
| Managerial Mathematics | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Digital Marketing | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Internet of Things | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Unmanned Vehicle Design and Application | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Internet of Things Technology Application Implementation Project | Elective | 3 |  |  |  |  |  |  |  |  |  |
| English Presentation Practice | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Financial and Economic News Study | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Artificial Intelligence System and Practice I | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Open Data System and Practice I | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Social Network System and Practice I | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Information Technology and Practice I | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Internship Ⅱ | Elective | 6 |  |  |  |  |  |  |  |  | Classes are only offered during the summer vacation. |
| Front-End Web Development | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Java Script Application Design | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Information Retrieval | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Information Technology and Corporate Strategy | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Data Analytics and Visualization | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Knowledge Management Research | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Artificial Intelligence System and Practice(II) | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Open Data System and Practice(II) | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Social Network System and Practice(II) | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Information Technology and Practice(II) | Elective | 1 |  |  |  |  |  |  |  |  |  |
| Internship I | Elective | 9 |  |  |  |  |  |  |  | |  |
| Internship Ⅲ | Elective | 9 |  |  |  |  |  |  |  | |  |
| Information Technology and Business Models | Elective | 6 |  |  |  |  |  |  |  |  |  |
| Data Mining and Knowledge Discovery | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Supply Chain Management | Elective | 3 |  |  |  |  |  |  |  |  |  |
| Applications of Artificial Intelligence in Business | Elective | 1 |  |  |  |  |  |  |  |  |  |

* The minimum required credits for graduation are 128, with 72 credits from required courses in the major (department), 8 credits of required courses designated by NUK, 24 credits from general education electives, and 24 credits from other electives. ①Among the other elective courses, students must complete at least 15 credits within the IM Department and can take up to 9 credits of compulsory or elective courses from other departments. ② Alternatively, students can select to complete all 24 elective credits by taking courses within the IM Department.
* For the Form 5 graduates : The student graduated from a senior secondary school in a foreign country, Hong Kong, or Macao, and their graduating year is academically equivalent to the second grade of a senior secondary school in Taiwan. Those admitted with equivalent qualifications must have a minimum of 140 credits upon graduation.

Students who take the courses that meet the requirements (Note 1) can apply for exemption before enrollment.

Note 1: Standards for Recognition of Equivalent Educational Levels for University Admission; Regulations Governing the Assessment and Recognition of Mainland Area Academic Records; Regulations Governing the Examination and Recognition of Educational Records from Hong Kong and Macao; Students who take courses organized by Taiwan’s universities/ colleges Continuing Education Programs.

* NUK fulltime undergraduate students are required to pass the basic competency tests for graduation:

1. English proficiency qualification examination (according to NUK's Implementation Regulations for Graduation Requirements on English Proficiency Assessment.)
2. Information literacy qualification examination (according to NUK's Implementation Regulations for the Basic Information Competence Assessment.)

* According to NUK's graduation rules, the Department of Information Management recognizes the professional applied law course Information Ethics and Law (3 credits).
* The minimum number of credits required for graduation from Department of Information Management includes credits from professional applied law courses.