

DEPARTMENT OF INDUSTRIAL AND INFORMATION MANAGEMENT

MASTER PROGRAM

To get the degree students have to meet all requirements below:

- **Prerequisite requirement:** at least 5 courses

Students will be required to pass the prerequisite courses during their undergraduate period, or students have to take the undergraduate courses proved in our school to fulfill the prerequisite requirement.

| Management (at least 2 courses) | Quantitative Methods (at least 2 courses) | Information Technology (at least 1 course) |
|--|---|--|
| 1. Human Resource Management 2. Production and Operation Management 3. Marketing Management 4. Quality Management 5. Financial Management 6. Management 7. Resource and Development Management | 1. Statistics 2. Operation Research 3. Probability 4. Linear Algebra | 1. Introduction of Computer Science 2. Computer Programming and Application |

Note:

- (1) The prerequisite courses must be completed before graduation.
- (2) The prerequisite courses can be taken from other departments.
- (3) The prerequisite courses do not count as part of the credits required for graduation.
- (4) The prerequisite course may be waived for students who have completed the similar courses in undergraduate study for more than 1 semester (3 credits) with an average mark of 60 or above.

- **English Proficiency Verification Prior to Graduation**

Students have to take one of the full English courses. Otherwise, they shall pass one of the following English proficiency tests.

- First stage of high-intermediate level of GEPT
- CBT-TOEFL 193/ Paper-based TOEFL 523
- IELTS 5.0.
- TOEIC 700

- **Thesis**

Students are required to complete a thesis which is related to Industrial Management, and the thesis has to be student's independent research.

- **Minimum credits required for graduation: 30 credit hours**

Including core courses: 12 credit hours; elective courses: 12 credit hours; Seminar: 6 credit hours.

- **Core courses:** at least 4 courses. And core courses are not allowed to take for other departments.

| Management Technology (at least 2 courses) | Decision Analysis (at least 2 courses) |
|--|---|
| <ol style="list-style-type: none"> 1. Experimental Design 2. Project Management 3. Supply Chain Management 4. Reliability Management (full English course) 5. Optimization Models and Applications (full English course) 6. Advanced Production and Operations Management (full English course) 7. Organizational Development 8. Sustainable Operations Management (full English course) | <ol style="list-style-type: none"> 1. Stochastic Processes 2. System Simulation 3. Mathematic Programming 4. Decision-Making under Uncertainty 5. Strategic Game Theory (full English course) 6. Managerial Decision Analysis (full English course) 7. Applied Physical Ergonomics (full English course) 8. Quality Engineering (full English course) |

- **Seminar for 4 semesters:** 6 credit hours

For Seminars 1 and 2: 1 credit hour each; for Seminars 3 and 4: 2 credit hours each. And students are not allowed to take Seminars from other department.

- **Elective courses:** 12 credit hours

For elective courses, students can take courses inside or outside the department. If students take more than 4 courses from the core course, that will automatically become the elective courses. Or students can attain the courses from other department as the elective course, but each semester at most 2 courses (6 credit hours), and at most 3 courses (9 credit hours) can be admitted.