

Department of Industrial Engineering and Management
Curriculum Requirements for Enrollees in the Academic Year 113 (Fall 2024)

| Program | Master's Program for the Day Division | | | | | | | | | | | | | | | |
|------------------------------------|---|--|-----------------|-----------------------------|-----------------|---------------|--|-----------------|-------|--|--|--|--|--|--|--|
| Group | None | | | | | | | | | | | | | | | |
| Class Type | Regular Class | | | | | | | | | | | | | | | |
| Special Program | None | | | | | | | | | | | | | | | |
| Curriculum Committee | Department Curriculum | 113. 04. 19 | | | | | | | | | | | | | | |
| | College Curriculum | 113. 05. 23 | | | | | | | | | | | | | | |
| | University Curriculum | 113. 06. 03 | | | | | | | | | | | | | | |
| | Academic Affairs | 113. 06. 03 | | | | | | | | | | | | | | |
| Graduation Credits /Study Duration | At least 30 credits required (plus 6 thesis credits), with a study period of 1 - 4 years; actual graduation credits based on the table below. | | | | | | | | | | | | | | | |
| Credit Load per Semester | The courses and credits required for each semester are determined by the respective departments (or institutes). However, during the first academic year, the total number of credits per semester must not be fewer than 6 credits and not exceed 18 credits. | | | | | | | | | | | | | | | |
| Required and Elective | Credits | Subject Category | | | | | | | | | | | | | | |
| Required | 9 Credits | Major Requirements (including Thesis) | | | | | | | | | | | | | | |
| Elective | 21 Credits | Major Elective | | | | | | | | | | | | | | |
| Graduation | Course Title | Regulations/Notes | | | | | | | | | | | | | | |
| Thesis | Thesis (6/6) | 1. Guidelines for Degree Conferment 2. Regulations for Graduate Degree Examinations 3. Implementation Guidelines for Thesis/Dissertation Review and Quality Assurance Mechanisms 4. Guidelines for the Deferred Public Release Review of Theses and Dissertations | | | | | | | | | | | | | | |
| Other Regulations | | | | | | | | | | | | | | | | |
| Remarks | <p>"Computer Course" means computer access is required (computer and internet usage fee).</p> <p>Graduation Requirements :</p> <p>「G07」 : Thesis</p> <p>Course Remark :</p> <p>「T02」 : EMI Courses (English-Medium Instruction) are offered as scheduled during the semester.</p> | | | | | | | | | | | | | | | |
| First Semester, First Year | | | | Second Semester, First Year | | | | | | | | | | | | |
| Course Category | Course Number | Course Name | Credit s/ Hours | Notes | Course Category | Course Number | Course Name | Credit s/ Hours | Notes | | | | | | | |
| Major Required | M06403 | Advanced Production and Operations Management | 3/3 | | Major Required | M06A02 | Seminar(2) | 0/2 | | | | | | | | |
| Major Required | M06A01 | Seminar(1) | 0/2 | | Major Required | M06A05 | Research Methods | 0/2 | | | | | | | | |
| Major Elective | M06N08 | Advanced Quality Management | 3/3 | | Major Elective | M06N03 | Introduction to Fuzzy Theory with Applications | 3/3 | | | | | | | | |
| Major Elective | M06N49 | Statistical Data Analysis | 3/3 | | Major Elective | M06N09 | Design and Analysis of Experiments | 3/3 | | | | | | | | |
| Major Elective | M06N56 | International Supply Chain Management | 3/3 | T02 | Major Elective | M06N13 | Inventory Management | 3/3 | | | | | | | | |
| Major Elective | M06N05 | Advanced Engineering Economy | 3/3 | | Major Elective | M06N15 | Manufacturing Management | 3/3 | | | | | | | | |
| Major Elective | M06N40 | Scheduling Theory and Strategy | 3/3 | | Major Elective | M06N19 | Six Sigma | 3/3 | | | | | | | | |

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|----------------|--------|---|-----|--|----------------|--------|--|-----|--|
| Major Elective | M06N52 | Project Management Seminar | 3/3 | | Major Elective | M06N24 | Multivariate Statistical Analysis | 3/3 | |
| Major Elective | M06N53 | Human Resource Management Speccoal theory | 3/3 | | Major Elective | M06N28 | Performance Evaluation and Management | 3/3 | |
| Major Elective | M06N23 | Marketing Strategy | 3/3 | | Major Elective | M06N41 | Data mining | 3/3 | |
| Major Elective | M06N64 | New Product development Management | 3/3 | | Major Elective | M06N42 | Multi-objective Programming | 3/3 | |
| Major Elective | M06N01 | Stochastic Models and Applications | 3/3 | | Major Elective | M06N43 | Automatic Production System | 3/3 | |
| Major Elective | M06N55 | Operations Research Speccoal theory | 3/3 | | Major Elective | M06N44 | Operation Risk Management | 3/3 | |
| Major Elective | M06N38 | Creative Thinking | 3/3 | | Major Elective | M06N50 | TRIZ Methods | 3/3 | |
| Major Elective | M06N30 | Regression Analysis | 3/3 | | Major Elective | M06N54 | Reliability engineering Special theory | 3/3 | |
| Major Elective | M06N34 | System Simulation | 3/3 | | Major Elective | M06N57 | Human factors engineering Special theory | 3/3 | |
| Major Elective | M06N68 | Taguchi Method Application | 3/3 | | Major Elective | M06N70 | Consumer Behavior | 3/3 | |
| Major Elective | M06N20 | Enterprise Management and Analysis | 3/3 | | Major Elective | M06N71 | International Marketing Management | 3/3 | |
| Major Elective | M06N51 | Seminars of Industrial Management | 3/3 | | Major Elective | M06N77 | Analytic Hierarchy Process Application | 3/3 | |

First Semester, Second Year

Second Semester, Second Year

| Course Category | Course Number | Course Name | Credit s/ Hours | Notes | Course Category | Course Number | Course Name | Credit s/ Hours | Notes |
|-----------------|---------------|---|-----------------|-------|-----------------|---------------|--|-----------------|-------|
| Major Required | M06A03 | Seminar(3) | 0/2 | | Major Required | M06A04 | Seminar(4) | 0/2 | G07 |
| Major Elective | M06N08 | Advanced Quality Management | 3/3 | | Major Required | M06B03 | Thesis | 6/6 | |
| Major Elective | M06N49 | Statistical Data Analysis | 3/3 | | Major Elective | M06N03 | Introduction to Fuzzy Theory with Applications | 3/3 | |
| Major Elective | M06N56 | International Supply Chain Management | 3/3 | T02 | Major Elective | M06N09 | Design and Analysis of Experiments | 3/3 | |
| Major Elective | M06N05 | Advanced Engineering Economy | 3/3 | | Major Elective | M06N13 | Inventory Management | 3/3 | |
| Major Elective | M06N40 | Scheduling Theory and Strategy | 3/3 | | Major Elective | M06N15 | Manufacturing Management | 3/3 | |
| Major Elective | M06N52 | Project Management Seminar | 3/3 | | Major Elective | M06N19 | Six Sigma | 3/3 | |
| Major Elective | M06N53 | Human Resource Management Speccoal theory | 3/3 | | Major Elective | M06N24 | Multivariate Statistical Analysis | 3/3 | |
| Major Elective | M06N23 | Marketing Strategy | 3/3 | | Major Elective | M06N28 | Performance Evaluation and Management | 3/3 | |
| Major Elective | M06N64 | New Product development Management | 3/3 | | Major Elective | M06N41 | Data mining | 3/3 | |

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| Major Elective | M06N01 | Stochastic Models and Applications | 3/3 | | Major Elective | M06N42 | Multi-objective Programming | 3/3 | |
| Major Elective | M06N55 | Operations Research Speccoal theory | 3/3 | | Major Elective | M06N43 | Automatic Production System | 3/3 | |
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