Academic Year: 103 (Aug 2014~ Jul2015)

Department: Department of Industrial Engineering and Management

Academic Degree: Master of Science (MS)

Require courses: 106.11.16updated

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Freshman | | Sophomore | | Junior | | | Senior | | |
| 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester | | 1st semester | | 2nd semester |
| Require courses for General (Total 30 credits) | | | | | | | | | |
| Physical Education  2-0-0 | Physical Education  2-0-0 | Physical Education  2-0-0 | Physical Education  2-0-0 |  |  | |  | |  |
| Selected Reading in Prose  2-0-2 | Appreciation of Chinese Literature  2-0-2 | English Presentation and Writing(Ι)  2-0-2 | Practical Chinese  2-0-2 | Constitution and Law  2-0-2 | Philosophical Thinking  2-0-2 | |  | |  |
| Vocabulary and Reading(Ι)  2-0-2 | Vocabulary and Reading(Ⅱ)  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | |  | |  |
| Life Education  2-0-2 | Historical Thinking  2-0-2 |  |  |  |  | |  | |  |
| Oral-Aural Training in English(Ⅰ)  0-2-1 | Ora-Aural Training in English(Ⅱ)  0-2-1 |  |  |  |  | |  | |  |
| Service Learning  0-2-0 | Service Learning  0-2-0 |  |  |  |  | |  | |  |
| 8-4-7 | 8-4-7 | 6-0-4 | 6-0-4 | 4-0--4 | 4-0-4 | |  | |  |
| Require courses for College(Total 15 credits) | | | | | | | | | |
| Economics(Ⅰ)  3-0-3 | Accounting  3-0-3 |  |  |  | Business Ethics  2-0-2 | |  | |  |
| Management Theory ( I )  2-0-2 | Management Theory ( II )  2-0-2 | Statistics(Ⅰ)  3-0-3 |  |  |  | |  | |  |
| 5-0-5 | 5-0-5 | 3-0-3 |  |  | 2-0-2 | |  | |  |
| Require courses for Department (Total 63 credits) | | | | | | | | | |
|  |  | Physics  3-0-3 | Physics Lab. 0-3-1 | Production Management  3-0-3 | E-Manufacturing  3-0-3 | Special Practicing Project(Ⅱ)  0-2-1 | |  | |
| Introduction to Computer Science  3-0-3 | Engineering Graphics  3-0-3 | Work Study  3-0-3 | Statistics(Ⅱ)  3-0-3 | Quality Management  3-0-3 | Senior Design(Ⅰ)  0-2-1 |  | |  | |
| Introduction to Computer Practice  0-2-1 | Object-Oriented Programming Design  3-0-3 | Work Study Practice  0-2-1 | Manufacturing Process Planning  3-0-3 | Engineering Economics  3-0-3 | Introduction to Human Factor  3-0-3 |  | |  | |
| Calculus(Ⅰ)  3-0-3 | Object Oriented Programming Design Practices  0-2-1 | Systems Analysis and Design  3-0-3 | Manufacturing Process Practice  0-2-1 |  |  |  | |  | |
|  | Calculus(Ⅱ)  3-0-3 | Operations Research(Ⅰ)  3-0-3 | Facilities Planning  3-0-3 |  |  |  | |  | |
|  | Linear Algebra 3-0-3 |  | Facilities Planning Practice  0-2-1 |  |  |  | |  | |
|  |  |  |  |  |  |  | |  | |
| 6-2-7 | 12-2-13 | 12-2-13 | 12-7-15 | 9-0-9 | 5-4-7 | 0-2-1 | | 0-0-0 | |

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| Industry Practice(Ⅰ)  1-8-5 |
| Industry Practice(Ⅱ)  1-8-5 |

Selected courses:

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Freshman | | Sophomore | | Junior | | Senior | |
| 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester | 2nd semester | 1st semester |
|  |  |  |  |  | Enterprise Resource Planning－Production Management Modules  2-2-3 | Special Topics on Industrial Engineering and Management ( I )  3-0-3 | Lean Production Management  3-0-3  Enterprise Resource Planning－Financial Accounting Modules  3-0-3  Special Topics on Industrial Engineering and Management ( II )  3-0-3 |
|  |  |  |  | Green Production  3-0-3 | Operations Management  3-0-3  Introduction to Green Products  3-0-3 | Materials Management  3-0-3 Introduction to Integration of Manufacturing and Commercial  3-0-3  Local Business Operation  3-0-3 | Global Supply Chain Management  3-0-3  Management Practices  3-0-3 |
|  |  |  |  |  |  | Introduction to Probability  3-0-3 | Industrial Scheduling and Its Applications  3-0-3  soft computing  3-0-3 |
|  |  |  |  | Introduction to Research Methods in Behavioral Science  3-0-3  System Simulation  3-0-3 | Industrial Environment and Safety  3-0-3 | Introduction to Biomechanics  3-0-3 | Managerial Psychology  3-0-3 |
|  |  |  |  | Quality Engineering  3-0-3 Reliability Management  3-0-3 | Statistical Application Software  3-0-3 | Introduction to Bioinformatics  3-0-3 | Design of Human-Computer Interface  3-0-3 |
|  |  |  | Management Information Systems  3-0-3 | Database Design and Web Programming  3-0-3 | Data Analysis and Application  3-0-3 | Electronic Business  3-0-3  Cost and Management Accounting  3-0-3 | Total Quality Practices  3-0-3 |
|  |  | Organization and Management  3-0-3 | Management Thinking  3-0-3 | Introduction to Hospital Management  3-0-3 | Office Automation 3-0-3 | Continuous Improvement Program  3-0-3 | Industry Practice(Ⅰ)  1-8-5 |
|  |  |  | Decision Analysis  3-0-3 |  | Introduction to Medical Information  3-0-3 |  | Industry Practice(Ⅱ)  1-8-5 |
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|  |  |  |  |  |  |  |  |
| **Selected Courses:** at least 26 Credits for required < Could be covered 9 credits from other department> | | | | | | | | |
| **Required Courses:** 136 Credits | | | | | | | | |