Academic Year: 103 (Aug 2014~ Jul2015)

Department: Department of Industrial Engineering and Management

Academic Degree: Master of Science (MS)

Require courses: 106.11.16updated

|  |  |  |  |
| --- | --- | --- | --- |
| 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 Education2-0-0 | Physical Education2-0-0 | Physical Education2-0-0 | Physical Education2-0-0 |  |  |  |  |
| Selected Reading in Prose2-0-2 | Appreciation of Chinese Literature2-0-2 | English Presentation and Writing(Ι)2-0-2 | Practical Chinese2-0-2 | Constitution and Law2-0-2 | Philosophical Thinking2-0-2 |  |  |
| Vocabulary and Reading(Ι)2-0-2 | Vocabulary and Reading(Ⅱ)2-0-2 | General Education2-0-2 | General Education2-0-2 | General Education2-0-2 | General Education2-0-2 |  |  |
| Life Education2-0-2 | Historical Thinking2-0-2 |  |  |  |  |  |  |
| Oral-Aural Training in English(Ⅰ)0-2-1 | Ora-Aural Training in English(Ⅱ) 0-2-1 |  |  |  |  |  |  |
| Service Learning0-2-0 | Service Learning0-2-0 |  |  |  |  |  |  |
| 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-Manufacturing3-0-3 | 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 Design3-0-3 | Work Study Practice0-2-1 | 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 Practice0-2-1 |  |  |  |  |
|  | Calculus(Ⅱ) 3-0-3 | Operations Research(Ⅰ) 3-0-3 | Facilities Planning3-0-3 |  |  |  |  |
|  | 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:

|  |  |  |  |
| --- | --- | --- | --- |
| 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 Modules2-2-3 | Special Topics on Industrial Engineering and Management ( I ) 3-0-3 | Lean Production Management 3-0-3 Enterprise Resource Planning－Financial Accounting Modules3-0-3 Special Topics on Industrial Engineering and Management ( II )3-0-3 |
|  |  |  |  | Green Production3-0-3 | Operations Management3-0-3Introduction to Green Products3-0-3 | Materials Management3-0-3 Introduction to Integration of Manufacturing and Commercial3-0-3Local Business Operation3-0-3 | Global Supply Chain Management3-0-3 Management Practices3-0-3 |
|  |  |  |  |  |  | Introduction to Probability3-0-3 | Industrial Scheduling and Its Applications3-0-3 soft computing3-0-3 |
|  |  |  |  | Introduction to Research Methods in Behavioral Science3-0-3System Simulation3-0-3 | Industrial Environment and Safety3-0-3 | Introduction to Biomechanics3-0-3 | Managerial Psychology3-0-3 |
|  |  |  |  | Quality Engineering 3-0-3 Reliability Management3-0-3 | Statistical Application Software3-0-3 | Introduction to Bioinformatics3-0-3 | Design of Human-Computer Interface3-0-3 |
|  |  |  | Management Information Systems3-0-3 | Database Design and Web Programming3-0-3 | Data Analysis and Application3-0-3 | Electronic Business3-0-3 Cost and Management Accounting3-0-3 | Total Quality Practices3-0-3 |
|  |  | Organization and Management3-0-3 | Management Thinking3-0-3 | Introduction to Hospital Management3-0-3 | Office Automation 3-0-3 | Continuous Improvement Program3-0-3 | Industry Practice(Ⅰ)1-8-5 |
|  |  |  | Decision Analysis3-0-3 |  | Introduction to Medical Information3-0-3 |  | 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 |