Academic Year: 104 (Aug 2015~ Jul2016)

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 (含通識8學分,Total 30 credits) | | | | | | | | | |
| Physical Education  2-0-0 | Physical Education  2-0-0 | Physical Education  2-0-0 | Physical Education  2-0-0 |  |  | |  | |  |
| Practicum in English Communication（Ι）  0-2-1 | Practicum in English Communication（Ⅱ）  0-2-1 | English Presentation and Writing（Ι）  2-0-2 | English Presentation and Writing（Ⅱ）  2-0-2 | Career English  2-0-2 |  | |  | |  |
| Selected Reading in Prose  2-0-2 | Appreciation of Chinese Literature  2-0-2 |  | Practical Chinese  2-0-2 | Constitution and Law  2-0-2 | Philosophical Thinking  2-0-2 | |  | |  |
| Life Education  2-0-2 | Historical Thinking  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | General Education  2-0-2 | |  | |  |
| 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 (一)  2-0-2 | Management Theory (二)  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 | Systems Analysis and Design  3-0-3 | Statistics（Ⅱ）  3-0-3 | Production Management  3-0-3 | Senior Design（Ⅰ）  0-2-1 | Special Practicing Project（Ⅱ）  0-2-1 | |  | |
| Introduction to Computer Science  3-0-3 | Object-Oriented Programming Design  3-0-3 | Operations Research（Ⅰ）  3-0-3 | Operation Research（Ⅱ）  3-0-3 | Quality Management  3-0-3 | E-Manufacturing  2-2-3 |  | |  | |
| Introduction to Computer Practice  0-2-1 | Object Oriented Programming Design Practices  0-2-1 | Work Study  3-0-3 | Facilities Planning  3-0-3 | Engineering Economics  3-0-3 | Introduction to Human Factor  3-0-3 |  | |  | |
| Calculus（Ⅰ）  3-0-3 | Calculus（Ⅱ）  3-0-3 | Work Study Practice  0-2-1 | Facilities Planning Practice  3-0-3 |  |  |  | |  | |
|  | Engineering Graphics  3-0-3 |  | Manufacturing Process  3-0-3 |  |  |  | |  | |
|  | Linear Algebra 3-0-3 |  | Manufacturing Process Practice  0-2-1 |  |  |  | |  | |
|  |  |  |  |  |  |  | |  | |
| 9-2-10 | 12-5-14 | 12-2-13 | 12-7-15 | 9-0-9 | 5-4-7 | 0-2-1 | | 0-0-0 | |

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 Modules  2-2-3 | Special Topics on Industrial Engineering and Management (一)  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 (二)  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 |
|  |  |  |  | System Simulation  2-2-3 | Industrial Environment and Safety  3-0-3  Introduction to Research Methods in Behavioral Science  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 Big Data Analysis 3-0-3 |  |
|  |  |  | Management Information Systems  3-0-3 | Database Design and Web Programming  3-0-3 | Office Automation  3-0-3 | Electronic Business  3-0-3  Cost and Management Accounting  3-0-3 | I |
|  |  | Organization and Management  3-0-3 | Management Thinking  3-0-3 | Introduction to Hospital Management  3-0-3 | Introduction to Medical Information  3-0-3 | Continuous Improvement Program  3-0-3 | Industry Practice（Ⅰ）  1-8-5 |
|  |  |  | Decision Analysis  3-0-3 |  |  |  | Industry Practice（Ⅱ）  1-8-5 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Selected Courses:** at least 26 Credits for required < Could be covered 9 credits from other department> | | | | | | | | |
| **Required Courses:** 136 Credits | | | | | | | | |