

# MS in Department of Industrial Management (Evening Program) Study Guidance Atlas (for 2010 academic year)

**Educational Objectives**

- Possess professional and practical expertise
- Expressing abilities
- Possess global industrial development analytical skills
- Think innovatively
- Possess problem solving skills
- Possess professional IT and software application skills

**Required Courses (12)**  
(Independent Study 6)

**Thesis (0)**



Profession Elective Courses (21 credit hours), need to take at least 4 courses in one specified track and one course from other tracks

First semester

Second semester

Third semester

Fourth semester

Seminar in Industrial Engineering and Management (3)

Technology English Writing (3)

Independent Study I (3)

Independent Study II (3)

**Track A: Operations Management (39 Courses)**

Computer Aided Design and Manufacturing (3) Automated Inspection (3) Advanced Quality Control (3) Production and Automated  
 Operations Management (3) The Operational Models of Electronic Enterprise (3) Computer Integrated Manufacturing (3) Metrology and Quality (3)  
 International Quality and Environmental Management (3) Semi-Conductor Manufacturing Management (3) International Logistics Management (3)  
 Total Quality Management (3)

Global Logistics Management (3) Electronic Commerce Practice (3)  
 Heuristic Algorithms (3) Systems Simulation (3) Scheduling and Inventory Management (3)  
 Reliability Engineering (3) Production Economics Analysis (3)  
 Machine Vision (3) Logistics and Physical Distribution Management (3)  
 Process Management (3) Six Sigma (3) Supply Chains Design and Analysis (3)  
 Information Technology for Supply Chains (3)  
 Purchasing Management (3)  
 System Analysis and Design (3)  
 Healthcare Quality Management (3)

Computer Data Analysis (3)  
 Enterprise Resource Planning (3)  
 Multivariate Analysis (3)  
 Statistical Data Analysis (3)  
 Intelligent Systems (3)  
 Quality Management in Service Industry (3)  
 Neural Networks (3)  
 Industrial Management Software Application (3)  
 Fuzzy Set Theory (3)  
 Soft Computing (3)  
 Experimental Design (3)

Information Systems for Travel Agencies (3) Knowledge Management (3)  
 Decision Analysis (3) Customer Relationship Management (3) Value Engineering (3) Project Management (3)  
 Decision Support System (3) Export System (3)  
 Electronic Commerce (3)  
 Risk Management (3)

Foundations of Industrial Training (3)  
 International Human Resource Management (3)  
 Organization Theory and Management (3)  
 Innovation and Research Management (3)  
 Human Resource Management (3)  
 Occupational Biomechanics (3)

Leadership (3)  
 Research Methodology (3)  
 Human-Computer Interactions (3)  
 Technology Management (3)  
 Strategic Management (3)  
 Cognitive Engineering (3)

Operations Research (3)

Industrial Relations (3)  
 Work Physiology (3)  
 Labor issues (3)

**Track B: Information and Decision (38 Courses)**

**Track C: General Management (36 Courses)**

.....▶ Recommended sequence of courses taking  
**Curricular Requirements 37**