

Master of Engineering Program in Management Engineering

Research Focus

- Operations Research
- Industrial Engineering
- Engineering Management
- Manufacturing Systems and Automation
- Logistics and Supply Chain Management
- Product Design and Development

Structure of the Program

1. Credit Requirements *

Requirements	Option 1.2
Coursework	24
- Core Courses	9
- Electives	15
Required Non-credit Courses	5
Thesis	12
Total	36

* Minimum credits required

2. Core Courses

Requirements	Option 1.2	
	Course No.	Cr.
Production Management	301502	3
Operations Management	301503	3
Applied Statistics for Engineering Management	310505	3
Total	3	9

3. Electives

Requirements	Option 1.2	
	Course No.	Cr.
Design and Analysis of Experiment	301514	3
Simulation	301515	3
Total Quality Management	301516	3
Selected Topics in Engineering Management	301591	3
Optimization and Applications	301521	3
Operations Research in Production Planning and Control	301522	3
Stochastic Processes	301524	3
Applied Fuzzy Set Theory in Operations Research	301526	3
Numerical Methods in Engineering Management	301527	3
Metaheuristics	301528	3
Stochastic Modeling for Logistics and Supply Chain Management	301529	3
Maintenance Management	301530	3
Project Management	301531	3
Supply Chain Management	301533	3
Inventory Management	301534	3
Marketing Engineering	301535	3
Ergonomics and Work Design	301536	3
Safety Engineering and Management	301537	3
Eco-design and Product Life Cycle Assessment	301540	3
Enterprise Resource Planning	301542	3
Computer Integrated Manufacturing	301544	3
Flexible Manufacturing Systems	301545	3
Applications of Industrial Robot	301546	3
Product Design and Development	301547	3
Lean Production Systems	301548	3
Manufacturing Strategy	301549	3
Total	≥5	≥15

4. Required Non-credit Courses

Requirements	Option 1.2	
	Course No.	Cr.
Research Methodology in Science and Technology	301504	3
Seminar 1	301596	1
Seminar 2	301597	1
Total	3	5

5. Thesis Credit Requirements

Requirements	Option 1.2	
	Course No.	Cr.
Thesis 1, Option 1.2	301592	3
Thesis 2, Option 1.2	301593	3
Thesis 3, Option 1.2	301594	6
Total	3	12