



# 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

### Credit Requirements \*

Requirements	Type A1	Type A2
1. Coursework		24
1.1 Core Courses		9
1.2 Electives		15
2. Thesis	36	12
3. Required Non-credit Courses	5	5
<b>Total</b>	<b>36</b>	<b>36</b>

### Core Courses

Requirements	Type A2	
	Course No	Cr
Production Management	301502	3
Operations Management	301503	3
Applied Statistics for Management Engineering	301505	3
<b>Total</b>		<b>9</b>



# Master of Engineering Program in Electrical Engineering



## *Electives Courses*

Requirements	Type A2	
	Course No	Cr
Design and Analysis of Experiments	301514	3
Simulation	301515	3
Total Quality Management	301516	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 Management Engineering	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
Selected Topic in Management Process Engineering	301591	3
Current Issues in Management Engineering	301595	3
		≥15



# Master of Engineering Program in Electrical Engineering



## *Thesis Credit Requirements*

Requirements	Type A 1	
	Course No	Cr
Thesis 1, Type A 1	301581	9
Thesis 2, Type A 1	301582	9
Thesis 3, Type A 1	301583	9
Thesis 4, Type A 1	301584	9
<b>Total</b>		<b>36</b>

Requirements	Type A 2	
	Course No	Cr
Thesis 1, Type A 2	301592	3
Thesis 2, Type A 2	301593	3
Thesis 3, Type A 2	301594	6
<b>Total</b>		<b>12</b>

## *Required Non-credit Courses*

Requirements	Type A 1, A 2	
	Course No	Cr
Research Methodology in Science and Technology	3301504	3
Seminar 1	301596	1
Seminar 2	301597	1
<b>Total</b>		<b>5</b>