

Master of Engineering Program in Mechanical Engineering



Research Focus

- Energy
- Mechanics
- Automatic Control
- Thermodynamics and Fluid Mechanics
- Agricultural Engineering
- Biomedical Engineering
- Precision Engineering

Structure of the Program

Credit Requirements *

Requirements	Type A2	
1. Coursework	24	
1.1 Core Courses	3	
1.2 Electives	21	
2. Thesis	12	
3. Required Non-credit Courses	4	
Total	36	

Core Courses

Requirements	Type A2	
	Course No	Cr
Advanced Mathematics for Mechanical Engineering	302502	3
Total		3



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Electives Courses

> Applied mechanics and Design

Requirements	Type A2	
	Course No	Cr
Statistics for Mechanical Engineering	302503	3
Biomechanics of Human Movement	302512	3
Theory of Elasticity	302513	3
Computational Biomechanics	302514	3
Mechanics of Fatigue and Fracture	302515	3
Theory of Plasticity	302516	3
Decision Theory	302517	3
Engineering Optimization	302519	3
Selected Topics in Mechanical Engineering	302594	3
Special Problem Studies in Mechanical Engineering	302595	3
Total		≥9

> Energy Engineering

Requirements	Option Type A 2	
	Course No	Cr
Energy Conversion	302544	3
Energy Engineering Economics	302545	3
Energy Conservation and Management	302546	3
Renewable Energy Resources	302547	3
Design of Air-conditioning Heating and Ventilation	302548	3
System		
Selected Topics in Mechanical Engineering	302594	3
Special Problem Studies in Mechanical Engineering	302595	3

> Agricultural Engineering

Requirements	Option Type A 2	
	Course No	Cr
Theory of Agricultural Machinery Design	302560	3
Renewable Energy for Agriculture	302561	3
Harvesting Machinery	302562	3
Testing and Evaluation Techniques of Agricultural	302563	3
Machinery		
Drying and Storage of Agricultural Products	302564	3
Microwave Drying Technology	302565	3
Agricultural Products Processing Technology	302566	3
Selected Topics in Mechanical Engineering	302594	
Special Problem Studies in Mechanical Engineering	302595	



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Dynamical System and Automatic Control

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Requirements	Option Type A 2	
	Course No	Cr
Instruments and Measurement	302500	3
Numerical Analysis for Mechanical Engineers	302501	3
Automatic Control Theory	302550	3
Automatic Control Theory	302552	3
Advanced Automotive Control	302554	3
Engineering Dynamic System Design	302555	3
Computer-Controlled System	302557	3
Selected Topics in Mechanical Engineering	302594	3
Special Problem Studies in Mechanical Engineering	302595	3

4. Thesis Credit Requirements

Requirements	Type A 2	
	Course No	Cr
Thesis 1, Type A 2	302597	3
Thesis 2, Type A 2	302598	3
Thesis 3, Type A 2	302599	6
Total		12

Required Non-credit Courses

Requirements	TypeA1, A2	
	Course No	Cr
Research Methodology in Science and Technology	302501	3
Seminar	302591	1
Total		4