Master of Engineering Program in Environmental Engineering

Research Focus

- Research Focus Solid and Hazardous Waste Management
- Water and Wastewater Treatment
- Environment and Energy Management
- Air and Noise Control

Structure of the Program

*Credit Requirements **

Requirements	Type A2
1. Coursework	24
1.1 Core Courses	6
1.2 Electives	18
2. Thesis	12
3. Required Non-credit Courses	4
Total	36

Core Courses

Requirements	Type A2	
	Course No	Cr
Applied Chemistry for Environmental Engineering	307501	3
Environmental Fate and Transport of Pollutants	307502	3
Total		**6**

Electives Courses

- **Waste engineering**

Requirements	Type A2	
	Course No	Cr
Application of Remote Sensing and Geographic Information Systems for Engineers	304537	3
Groundwater Hydraulics	304546	3
Flood Protection and Drainage	304547	3
Advanced Wastewater Treatment Process	307511	3
Advanced Water Supply Technology	307512	3
Sewerage and Water Distribution Systems	307513	3
Water and Wastewater Treatment Plant Operation and Management	307514	3
Integrated Municipal Solid Waste Engineering and Management	307515	3
Advanced Hazardous Waste Management	307516	3
Advanced Hazardous Waste Management	307517	3
Site Remediation	307518	3
Solid and Hazardous Waste Landfill Engineering	307519	3
Environmental and Health Risk Assessment	307520	3
Physico-Chemical-Biological Processes and Reaction Kinetics	307521	3
Current Issue in Environmental Engineering	307579	3
Construction Cost, Economics and Finance	313522	3
Total		≥9

➢ Pollution engineering

Requirements	Option Type A 2	
	Course No	Cr
Energy Conversion	302544	3
Energy Engineering Economics	302545	3
Energy Engineering Economics	302546	3
Renewable Energy Resources	302547	3
Design of Air-conditioning Heating and Ventilation System	302548	3
Water Resources Development and Management	304542	3
Hydropower Engineering	304545	3
Air Pollution and Control	307531	3
Design of Air Pollution and Control System for Industry	307532	3
Atmospheric Chemistry	307533	3
Advanced Noise Control	307534	3
Global Warming and Impact Mitigation	307535	3
Community Environmental Technology	307536	3
Pollution Management	307537	3
Environmental System Modeling	307538	3
Environmental Health and Sanitation	307539	3
Pollution Prevention	307540	3
Environment and Energy	307541	3
Biotechnology for Energy and Environment	307542	3
Industrial Safety and Environment Management	307543	3
Environmental Law and Organization Management	307544	3
Climate Change and Hydropower Development	307545	3
Energy System and Technology for Sustainable Transportation	307546	3
Current Issue in Environmental Engineering	307579	3
Stakeholders Participation and Environmental Impact Assessment	310504	3
Climate Change Adaptation and Mitigation	314518	3
Health Management	314531	3
Total		**≥9**

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Thesis Credit Requirements

Requirements	Type A 2	
	Course No	Cr
Thesis 1, Type A 2	307591	3
Thesis 2, Type A 2	307592	3
Thesis 3, Type A 2	307593	6
Total		**12**

Required Non-credit Courses

Requirements	Type A 2	
	Course No	Cr
Research Methodology in Science and Technology	307581	3
Seminar	307582	1
Total		**4**