

Curriculum

The curriculum is designed to impart both theoretical and practical knowledge in related disciplines of Environmental Engineering. The teaching program emphasizes students' active participation and involvement in learning.

Year I Semester I		Year I Semester II	
Subjects	Cr	Subjects	Cr
Environmental Chemistry and Microbiology	3	Solid Waste Engineering	3
Computational Tools and Techniques for Environmental Engineers	3	Green Engineering	3
Environmental Dynamics	3	Environmental Process Modeling	3
Water Quality Engineering	3	Biological Wastewater Treatment	3
Air Pollution Engineering	3	Elective*	3
Year II Semester I		Year II Semester II	
Environmental Economic Policies and Legislation	3	Thesis Research	15
Environmental Impact and Risk Assessment	3	Total Credits	60
Research Methodology	3	Students are required to give one seminar presentation in Year II.	
Elective*	3		
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*Some Elective Courses: Climate Change: Mitigation Technologies and Policies, Design of Water Supply and Wastewater Systems, Disaster Risk and Vulnerability Assessment, Water Resources Engineering, Urban Energy and Environmental Planning			

For Further Information

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Kathmandu University

Quality Education for Leadership



M. Tech. in Environmental Engineering

Department of Environmental Science and Engineering
School of Science
Kathmandu University
Website: <http://ese.ku.edu.np>

2021

Introduction

The Department of Environmental Science and Engineering (DESE) is one of the pioneer departments of the School of Science, Kathmandu University, which started some of the first programs in Nepal. The Master of Technology (M. Tech.) in Environmental Engineering was started in 2016. The department has produced 169 Master-level, 5 M. Phil. and 29 Ph. D. graduates until 2020.

With the rise in haphazard development processes, we risk irrecoverable damage to our environment through urgent and pervasive problems like pollution and the impact of the built environment. Hence, this program aims to equip the students with a sound knowledge base of scientific and engineering principles to assess and eliminate environmental pollution in the environmental media, viz., air, water and soil.

Our Mission

- Produce professionals with a sound theoretical and practical background in environmental processes, problems and issues through an integrated systems approach.
- Develop personnel with specialized knowledge and skills in water and wastewater management, solid waste management, air pollution and control, applied research and development, and impact assessment.

Career Opportunities

The rigorous practical and project-based training prepare students for different sectors and organizations:

- Government and municipalities
- Environmental consultancies
- NGOs/INGOs
- Environmental assessments
- Pollution control in process industries
- Water & wastewater treatment plants
- Air pollution control
- Solid waste management
- Sustainable energy development
- Urban planning



Application Requirements

The prospective students of the M. Tech. in Environmental Engineering program must have 16 years of schooling with a prior four-year undergraduate degree in Engineering with a minimum 50 % aggregate or CGPA of 2.0 from any recognized university.

There will be an entrance exam and/or screening interview for the prospective students. Application forms are available at the office of the Head of the Department or website of the department.

Tuition Fee and Scholarship

The total cost of the two-year M. Tech. in Environmental Engineering program is NRs. 395,000. University Grants Commission, Nepal provides Formula Based Funding Scholarship to several deserving M. Tech. students. The department also provides Silver Jubilee Graduate Assistantship to needy and deserving graduate students. Need and merit-based partial tuition fee waiver scholarships are available as per KU provisions.

Evaluation Scheme

Evaluation is based on continuous assessment. Students are evaluated through class participation, assignments, practical and projects works, term papers, in-semester and end-semester examinations and thesis defense. At the end of the semester, for each course, the student will be evaluated on a 4-point scale indicated by letter grades.

Grade	A	A-	B+	B	B-	C+	C	F
Grade Point	4	3.7	3.3	3	2.7	2.3	2	0

To complete M. Tech. degree, students are required to maintain a minimum of 3.0 Cumulative Grade Point Average (CGPA).

