

practical and projects works, term papers, in-semester and end-semester examinations and defense of thesis. At the end of semester, for each course, 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

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

Curriculum

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

First Semester	
Subjects	Cr
Environmental Chemistry and Microbiology	3
Computational Tools and Techniques for Environmental Engineers	3
Environmental Dynamics	3
Water Quality Engineering	3
Air Pollution Engineering	3

Second Semester	
Subjects	Cr
Solid Waste Engineering	3
Green Engineering	3
Environmental Process Modeling	3
Elective I – Pool A	3
Elective II – Pool A	3

Third Semester	
Environmental Economic Policies and Legislation	3
Environmental Impact and Risk Assessment	3
Colloquium in Environmental Engineering	1
Directed Study and Research Methods in Thesis	2
Elective I – Pool A	3
Elective II – Pool B	3

Fourth Semester	
Thesis	15
Total Credits	60

Pool A: Environmental Engineering & Science

Pool B: Environmental Planning & Management

For Further Information

Department of Environmental Science and Engineering
(DESE)

School of Science, Kathmandu University

Dhulikhel, Kavre, Nepal

P. O. Box 6250 Kathmandu, Nepal

Tel: +977-11-415100, 977-011-415200

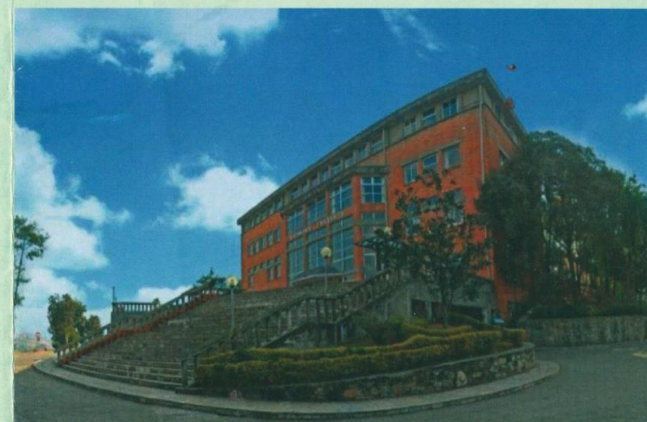
Fax-977-011-415011

Email: ese_hod@ku.edu.np, Website: <http://ese.ku.edu.np>



KATHMANDU UNIVERSITY

Quality Education for Leadership



**M. Tech. in
Environmental Engineering**

Department of Environmental Science and Engineering
School of Science

Introduction

Kathmandu University (KU) was established in November 1991 as an autonomous, not-for-profit, non-governmental public institution dedicated to maintaining high standards of academic excellence. The Department of Environmental Science and Engineering (DESE) is one of the pioneer departments of 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 140 Master-level, 5 M. Phil. and 26 Ph. D. graduates till 2018.

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



Our Mission

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



Career Opportunities

The rigorous practical and project-based trainings prepare students for good positions.

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

Application Requirements

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



There will be entrance exam and/or screening interview for the prospective students. Application forms are available at the office of the Head of the Department and the contact information is given at the end of this brochure.



Fees and Scholarships

Total cost of the two-year M. Tech. in Environmental Engineering program is NRs. 370,000 (2019). University Grants Commission, Nepal provides Formula Based Funding Scholarship to a number of 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,