Scholarships

- Each semester GPA merit based full tuition fee waiver scholarships per 30 students intake capacity
- Need and merit based partial tuition fee waiver scholarships as per KU provision.
- Loan Scholarship



Admission Eligibility

Must have taken PCM (Physics, Chemistry, and Mathematics) in both XI and XII.

Minimum grade of C individually in all courses.

OR,

If the student has been evaluated in a percentage system, a minimum 50% in aggregate of PCM.

Cost of Program

Total cost of the four-year program for 2021 intake is NRs. 800,000.





Faculty

Prof. Dr. Subodh Sharma (Registrar - KU) Prof. Dr. Bibhuti Ranjan Jha

- Dr. Rijan Bhakta Kayastha (Head of the Department)
- Dr. Bed Mani Dahal
- Dr. Kumud Raj Kafle
- Mrs. Sabita Aryal Khanna
- Mr. Sandeep Shrestha
- Dr. Rabindra Pokhrel
- Dr. Smriti Gurung
- Dr. Kundan Lal Shrestha
- Dr. Bikash Adhikari
- Dr. Nani Raut
- Dr. Anish Ghimire (Coordinator Environmental Engineering)
- Er. Subodh Luitel

Teaching Assistants

Ms. Shreeya Manandhar

Er. Shreesha Bhattarai

Office Staff

Mr. Sambhu Raya



Department of Environmental Science and Engineering

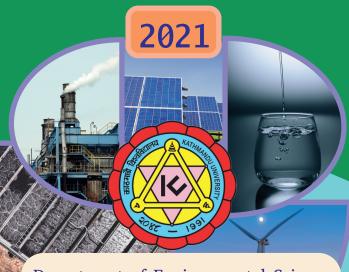
School of Science, Kathmandu University Dhulikhel, Kavre, Nepal

http://ese.ku.edu.np Phone: 977-011-415100, Email: ese hod@ku.edu.np

B. Tech. in Environmental Engineering







Department of Environmental Science and Engineering

http://ese.ku.edu.np

Kathmandu
University (KU)
was established
by the act of
parliament of Nepal
in November 1991,
as an autonomous,
not-for-profit, nongovernment institution
dedicated to maintaining high
standards of academic excellence.

The Bachelor of Technology in Environmental Engineering program, the first such program in Nepal, was launched by KU in August 2005 and has already successfully produced more than 200 graduates, who are recognized and registered as Environmental Engineers by Nepal Engineering Council.

The sustainable development of any country needs to recognize the intimate and intricate relationship between the human activities and the



environment. 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 on our ecosystem. Hence, this program aims to equip the students with a sound knowledge-base of technical and environmental engineering principles to assess, reduce and eliminate the environmental problems by striving for a sustainable environment.

Code	Course	Cr.	Code	Course	Cr.
Year I Semes	eter I		Year III Sem	nester I	
MATH 101	Calculus & Linear Algebra	3	ESEE 301	Meteorology & Climate Studies	3
COMP 102	Computer Programming	3	ENVE 301	Engineering Geology	3
PHYS 101	General Physics I	3	ESEE 302	GIS and Remote Sensing	1
CHEM 101	General Chemistry	3	ESEE 341	GIS & Remote Sensing lab	2
ENGG 101	Engineering Project Preparation and	2	MEEG 306	Heat Transfer	3
	Workshop Practice		ENVE 302	Water Supply Engineering	3
EDRG 101	Engineering Drawing I	2	ENVE 341	Water Supply Engineering Practical	1
ENGG 111	Elements of Engineering I	3	ESEE 303	Environmental Sociology & Human Ecology	3
		_	ESEE 351	Environmental Data Analysis Project	2
		19			21
Year I Semes	ster II		Year III Sem	nester II	
MATH 104	Advanced Calculus	3	ENVE 303	Air and Noise Pollution Control Engineering	3
COMP 116	Object Oriented Programming	3	ENVE 342	Air and Noise Pollution Practical	1
PHYS 102	General Physics II	3	ESEE 307	Applied Hydrology	3
ENGT 105	Technical Communication	3	ESEE 342	Hydrology Practical	1
ENGG 102	Engineering Project	2	ESEE 309	Energy Resource Engineering	3
EDRG 102	Engineering Drawing II	2	ENVE 304	Wastewater and Sanitary Engineering	3
ENVE 101	Introduction to Environmental Engineering	2	ENVE 341	Wastewater and Sanitary Engineering Practical	1
ENGG 112	Elements of Engineering II	3	MGTS 301	Engineering Economics	3
ENGG 112	Elements of Engineering II	3	ESEE 310	Environmental Survey	3
		21		Elivirolinicitai Survey	21
Year II Semester I			Year IV Semester I		41
MATH 207	Differential Equations and Complex Variables	4	ENVE 451	Environmental Engineering Design	4
			ESEE 401		
MEEG 216	Engineering Mechanics	3		Solid Waste Engineering	3
CHEM 215	Analytical Chemistry	3	ESEE 402	Environmental Impact Assessment	2
CHEM 216	Analytical Chemistry Laboratory	1	ESEE 451	Environmental Impact Assessment Project	1
ENVE 204	Chemical Process Calculation	3	ESEE 403	Environmental Modeling	3
MEEG 218	Fluid Mechanics	3	MGTS 402	Engineering Entrepreneurship Development	3
ENVS 201	Fundamentals of Ecology	2	ESEE 452	Environmental Research Methods	2
ENVS 241	Ecology Practical	1	***	Elective	3
V II C / II		20			21
Year II Seme			Year IV Sem		
MCSC 202	Numerical Methods	3	ESEE 453	Final Year Project	6
ENVE 205	Mechanics of Materials	3	ESEE 454	Internship	1
MATH 208	Statistics & Probability	3		A	
CIEG 201	Construction Materials & Technology	3			
MEEG 207	Engineering Thermodynamics	3			
BIOL 207	Microbiology	2			
BIOL 208	Microbiology Lab	1			
		18			7
Total Credits	of 4 years: 148				
Electives					
ESEE 305	Environmental Hazards & Disaster	3	ENVS 203	Forest Environment	3
	Preparedness		ENVE 431	Hydropower Engineering	3
ESEE 304	Environmental and Occupational Health	3	ESEE 405	Integrated Watershed Management	3
ESEE 201	Environmental Laws and Policies	2	ESEE 432	Landscape & Bioengineering	3
	Faecal Sludge Management	3	ENVS 204	Soil Science	3
ESEE 431	raccai Studge Management				
ESEE 431 ENVE 455	Sewerage and Pumping System Design	3	ESEE 306	Urbanization and Sustainable Development	3