

# International Collaboration

- Anna University, India
- BITS Pilani, India
- Center for Environmental Remote Sensing (CEReS), Japan
- Ev-K2-CNR Committee, Italy
- George Mason University, USA
- Innovative Water Center (IWC), Cambodia
- Inha University, South Korea
- Kyushu University, Japan
- King Mongkut's University of Technology Thonburi, Thailand
- Lanzhou Institute of Chemical Physics, China
- Sweco Norge, Norway
- University of Applied Sciences, Germany
- University of Stavanger, Norway
- University of Tsukuba, Japan
- South Florida University, USA
- Nagoya University, Japan

## Research Centers & Specialized Laboratories

- Aquatic Ecology Centre
- Himalayan Cryosphere Climate and Disaster Research Center
- KOICA Laboratory for Organic Farming
- NPL-KU Bioequivalence and Bioavailability Centre
- Plasma Physics laboratory
- Shimadzu-KU Education Centre for Pharmacy

## Student Clubs

- Forum for Pharmacy
- Forum for Environment Conservation and Management
- Kathmandu University Biotechnology Creatives
- Kathmandu University Computer Club
- Kathmandu University Computational Mathematics Club
- Nature and Social Concern Society

[sos.ku.edu.np](http://sos.ku.edu.np)

# CONTACT INFORMATION

## Department of Biotechnology

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## Department of Environmental Science and Engg

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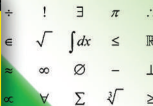
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## Department of Mathematics

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## Department of Pharmacy

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## Department of Physics

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$$E=mc^2$$

## School of Science

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**KATHMANDU UNIVERSITY**

“Quality Education for Leadership”



## School of Science

- Department of Biotechnology
- Department of Environmental Science and Engg
- Department of Mathematics
- Department of Pharmacy
- Department of Physics

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# Introduction

Kathmandu University (KU) was established by the Act of parliament of Nepal in November 1991, as an autonomous, not-for-profit, non-government public institution dedicated to maintaining high standards of academic excellence. Most of the technical and professional programs run at Kathmandu University are first to be introduced in the country with global recognition. Currently, the university has seven schools: Science, Arts, Education, Engineering, Law, Management and Medical Sciences.

## School of Science

The School of Science is a signatory school of KU established in July 1992. It has five departments. The strength of this school is highly qualified and senior faculties who are regularly involved in teaching, research and project activities. It offers both fundamental as well as applied courses from undergraduate to post-graduate levels. Students of KU at School of Science have both academic as well as non-academic extra curricular activities for their exposure through their respective departmental clubs.

## Facilities

- Senior and Dedicated Faculties.
- Internship and Project Activities.
- 24/7 Lab Access for Research.
- Separate Hostel Facilities for Boys, Girls and International Students.
- Library with Latest Books and Journals.
- Medical Insurance of every student.
- Students Exchange through collaborative programs.

# Academic Programs

## Undergraduate (BSc/BPharm/BTech)

Consists of **SIX** programs

- Biotechnology • Pharmacy
- Computational Mathematics
- Computer Science
- Environmental Science
- Environmental Engineering

## Graduate (MSc/MPharm/MTech/MS)

Consists of **SEVEN** programs

- Biotechnology • Pharmacy
- Physics • Chemistry
- Environmental Science
- Environmental Engineering
- Computer Science

## Post-Graduate (MPhil/PhD)

Consists of **EIGHT** programs

- Biotechnology • Pharmacy
- Environmental Science
- Environmental Engineering
- Mathematics • Statistics
- Physics • Chemistry

## Semester Pattern

Spring : August - January

Winter : February - July

# Research Domains

## Biotechnology

- Biopolymers and Bioplastics
- Medicinal Plants and their Anti-cancer Mechanism
- Micropropagation and Genetic Analysis of Bamboo
- Sustainable Production of Algae Fuel Pellets in Nepal

## Environmental Science and Engineering

- Atmospheric and Cryospheric environment
- Water and Wastewater technology
- Solid waste management
- Sustainability and Climate change
- Ecosystems, Wildlife and Nature conservation

## Mathematics

- Bio-Mathematics
- Fixed Point Theory and Its Applications
- Numerics in ODEs and PDEs
- Queueing and Reliability

## Pharmacy

- Novel Drug-Delivery System
- Clinical Research and Drug Therapy Management
- Phyto-chemical Screening and Natural Product Development of Medicinal Plants

## Physics

- Computational material science
- Generation and diagnostics of low temperature plasma with applications
- High performance computing
- Particle and high energy physics