



**KATHMANDU UNIVERSITY**  
“Quality Education for Leadership”

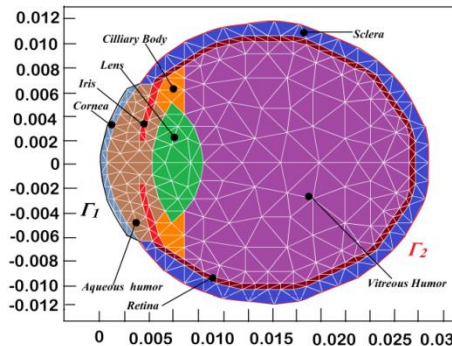


**PROGRAM INFORMATION**  
for

**Bachelor of Science**  
in

**Computational Mathematics**  
(Combined Program of Mathematics &  
Computer Science)

**2017**



Temperature distribution in human eye

## FACULTY

### Professors

Dr. Bhadra Man Tuladhar  
Dr. Kanhaiya Jha  
Dr. Jyoti Upadhyaya

### Associate Professors

Dr. Dil Bahadur Gurung (HoD)  
Dr. Ram Prasad Ghimire  
Dr. Rabindra Kayastha

### Assistant Professor

Dr. Samir Shrestha

### Lecturers

Dr. Gokul KC  
Dr. Saraswati Acharya  
Dr. K. B. Manandhar  
Mr. Kiran Kumar Shrestha  
Mr. Khim Bahadur Khattri  
Mr. Ganga Ram Phaijoo

Faculties from the Department of Computer Science and Computer Engineering, SOE are associated with this program.

For detail information, please contact

**Dr. Dil Bahadur Gurung (HoD)**

**Department of Natural Sciences**  
**School of Science, Kathmandu University**  
**Dhulikhel, Kavre, Nepal**

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[www.ku.edu.np/dons/mathematics.htm](http://www.ku.edu.np/dons/mathematics.htm)

Email: [db\\_gurung@ku.edu.np](mailto:db_gurung@ku.edu.np)

**Facilities:** KU offers one of the best facilities for higher education in Nepal and it includes:

- 24 hours internet access
- More than 70000 volume of library books
- Separate advanced computer lab

## Running Programs

MPhil. and PhD in Mathematics

Since 1997, more than 50 M Phil Students have been successfully graduated and 10 PhD degrees have been awarded.



DAAD Workshop on Mathematical Biology and Scientific Computing with Python (IMBSCP - 2016)

## Introduction

Kathmandu University (KU) was established by the act of parliament of Nepal in November 1991, as an autonomous, not-for-profit, non-government institution dedicated to maintaining high standards of academic excellence. Most of the technical and professional programs run at KU are first to be introduced in the country.



## Why Bachelor of Computational Mathematics?

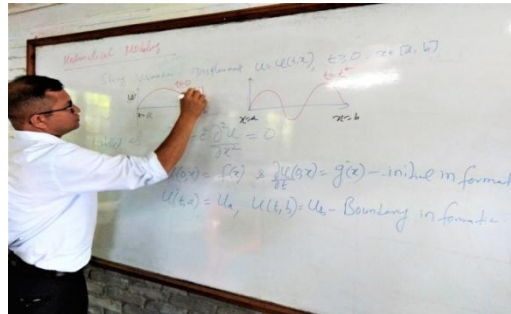
Mathematics is the rigorous study of structure and relationship. As such, it is fundamental to all of the sciences and Engineering, as well as being an intellectually challenging and fulfilling field of science in its own right. It trains students in analytical thinking and courses are offered with applications to natural as well as social sciences. Mathematics and computing are intertwined, and affect people's lives in ways one might not expect. Mathematics is a driving force behind many of today's advancement in Medicine, Economics, Business and Science & Technology. The solid mathematical knowledge and computational skills you acquire at KU will give a competitive edge in a wide variety of careers and prepare you to contribute to the next generation of innovations.

Keeping this essentiality, KU has launched B.Sc. in Mathematics with specialization in Computer in 1999 and as a continuation of this program; KU is starting

the **B.Sc. in Computational Mathematics (Four Year Program)** with updated structure for the first time in South Asia. It is a degree which prepares a student for either direct employment in software industries after graduation, as well as pursuing higher studies in mathematics or in IT sectors.

## Where are the career opportunities?

- Industries (IT & Software)
- Academic Institutes/ Research Centers
- Banking / Finance / Insurance/ IT Sectors
- Non-governmental Organizations (NGO)
- International Non-governmental Organizations (INGO)



## What is the admission eligibility?

The candidates must have passed I.Sc. (or 10 + 2 or equivalent) with minimum of 50% marks in aggregate and 50% in PCM or Physics, Mathematics and Computer Science.

## Financial Aid and Scholarships

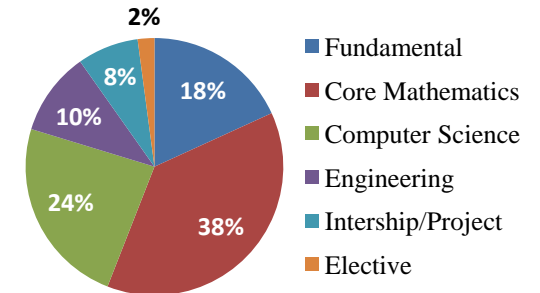
One semester grade point average merit based full tuition scholarship per 30 student intake capacity; UGC formula funding based scholarship; other need

and merit based partial tuition scholarships as per KU provision.

## Features of the Program

- A program compatible with international standards
- A practical and computational problem solving approach of learning
- A foundation for those wishing to pursue further study and research
- A foundation of scientific methodology and computation
- Highly qualified human resource persons

## Course Structure



## Cost of the Program

Total cost for four years is **NRS 680,000.00** and the payment will be as per KU rule.