

FACILITIES

KU offers the best facilities for higher education in Nepal that includes:

- All faculty available during office hours
- Academic counseling & project supervision available in off-hours
- More than **70000** volumes of library books
- Separate advanced Computer Lab
- Hostel facilities for needy students
- **24** hours internet access

OTHER PROGRAMS

- M. Phil. and Ph. D. in Mathematics/Statistics
- M.Sc. in Computational Mathematics

Since 1997, more than 60 M. Phil. students successfully graduated and 14 Ph. D. degrees have been awarded.



(UGC Sponsored Advanced Computer Lab)

FACULTY

Professors

Dr. Kanhaiya Jha (Former Dean, SOS)
Dr. Jyoti Upadhyaya (Former HoD)
Dr. Dil Bahadur Gurung (Former HoD)
Dr. Ram Prasad Ghimire (NAST Academician)

Visiting Professor

Dr. Bhadra Man Tuladhar (Former Registrar, KU)

Associate Professors

Dr. Rabindra Kayastha (HoD)
Dr. Samir Shrestha

Assistant Professors

Dr. Gokul KC (Assoc. Director, SWD)
Dr. Saraswati Acharya
Mr. Kiran Kumar Shrestha (PhD in Progress)
Dr. Kanchha Bhai Manandhar
Dr. Ganga Ram Phaijoo
Dr. Khim Bahadur Khattri

Lecturers

Dr. Sushil Ghimire
Mr. Harish Chandra Bhandari (PhD in Progress)

IT Technician: Mr. Shidhanta K.C.

For Detail Information

Department of Mathematics
School of Science, KU

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KATHMANDU UNIVERSITY

“Quality Education for Leadership”



Department of Mathematics

School of Science

(A UGC Nepal Accredited School)

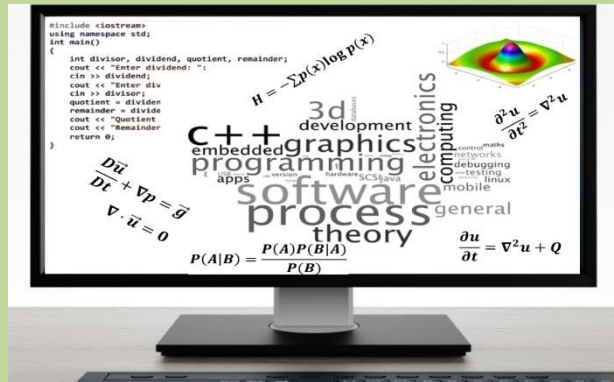
PROGRAM INFORMATION

B. Sc. in Computational Mathematics

(Blending of Mathematics
& Computer Science leading to IT)

2022

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 the first to be introduced in the country with global recognition.



Department of Mathematics offers B. Sc. in Computational Mathematics at Kathmandu University. This interdisciplinary program concentrates on Mathematics and Computer Science. In this program, students will gain rigorous mathematical knowledge and develop efficient computational skills to break down every complex real-world problems. Students enrolled in the program will be exposed to a wide range of problems in Science, Engineering, Technology, and Industries. Graduates of this program will be able to deploy a wide range of mathematical and computational techniques effectively and efficiently to solve problems. The program enhances and maintains the relevant software tools and communicates the results of complex modeling and simulation to end-users.

Keeping this essentiality, KU launched B. Sc. in Mathematics with a specialization in Computer in 1999. As a continuation of this program; KU started B. Sc. in Computational Mathematics since 2017 with an updated curriculum structure for the first time in South Asia. It is a program that prepares a student either for direct employment in industries or for higher studies in Mathematics and IT sectors after graduation.

CM-Course Structure

A 3D pie chart illustrating the distribution of a CM-Course. The chart is divided into six segments of varying sizes and colors. The largest segment is red, representing Mathematics at 40%. The next largest is green, representing Computer at 25%. Other segments include Engineering (purple, 11%), Fundamental (blue, 12%), Project Work (light blue, 10%), and a small orange segment for Elective (2%). Each segment is labeled with its category and percentage.

Course Component	Percentage
Mathematics	40%
Computer	25%
Engineering	11%
Fundamental	12%
Project Work	10%
Elective	2%

- Qualified human resource
- A practical and computing-based problem-solving approaches
- Four years program compatible with international standards
- Regular tutorial classes
- Internships in industries
- A foundation for those wishing to pursue further study and research
- A foundation of scientific methodology and computational skills as per the demand of employers

- Industries (IT & Software)
- Academic Institutes/ Research Centers
- Financial Sectors
- Data Scientist
- Higher Studies in Mathematics and IT Sectors

10+2 level (or equivalent) with a minimum aggregate GPA of 2.0 (50% in a percentage scale) and grade C individually in each course.

Minimum 50% in aggregate and minimum 50% in aggregate of PCM or PMCs (Physics, Mathematics, and Computer Science)

- 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
- Ram Man Shrestha Memorial Fund (For Marginalized Female Mathematics Candidates)

The total duration of the program is eight semesters. Each year consists of two semesters. The academic year usually starts in August. The classes are generally held from 9:00 AM to 4:00 PM, six days a week.

The total cost of the program is as per the KU rule which can be paid in 16 installments.