

## Eligibility

A candidate who has passed grade 12 from any stream (Science / Management / Education / Arts) with one of the subjects being Mathematics of 100 marks or Business mathematics or equivalent in 11 / 12 grade is eligible to get admission through entrance examination.

**Intake : 36**

## Scholarship

Scholarships will be awarded to 10% students according to T. U. rule.

## Career Opportunities



If there is one field where career prospects are abundant, it is Actuarial Science, because the demand exceeds supply even in the world.

The course is globally recognized with mutual exemptions with a lot of other international actuarial institutes.

Traditionally, actuaries were found only in the life-insurance sector. However, with the opening up of the economy they are wanted by general insurance, health insurance, reinsurance companies, pensions and employee benefits, investment consultancies, risk management, banks, stock exchanges, private and government agencies.

## Significance of the Program

The course is globally recognized with mutual exemptions with a lot of other international actuarial institutes.

In Nepal, there are no actuaries. All the actuarial jobs are serviced from India.

The job of actuary has been ranked in every edition



of the Wall Street Journal's Jobs Rated Almanac as a top three profession (out of 200) in the United States. In the 2015 edition, actuary was ranked the number one career. See <http://www.careercast.com/jobs-rated/jobs-rated-report-2015-ranking-top-200-jobs>. When ranking professions, the Almanac considers factors such as salary, hiring outlook, stress, and work environment.

## Do some research on actuarial career yourself

[www.beanactuary.org](http://www.beanactuary.org), | [www.actuariesindia.org](http://www.actuariesindia.org),  
[actuaries.org.uk](http://actuaries.org.uk), | [actuaries.asn.au](http://actuaries.asn.au), | [www.soa.org](http://www.soa.org), [casact.org](http://casact.org)

## Messages



Prof. Dr. Sudha Tripathi  
Rector, TU

It is remarkable that at SMS TU, the academic programs are designed with the needs of employers in mind, to give the students a solid foundation from which they may take their career in any direction. A new practice is that there will also be some courses covering Technical Writing Communication English, Humanities and Social Sciences, Management, Natural Sciences not related with the area of concentration taken.



Prof. Dr. P.M. Bajracharya  
Director, SMS TU

We take students from a wide variety of educational backgrounds and we work hard to give everyone the opportunity to shine yourself. We encourage bold, independent thinking and offer the highest quality academic experience to stretch and challenge yourself. Put Mathematics into practice through our innovative outreach program. At SMS TU, you will find Mathematics as a fascinating, beautiful and diverse subject to study. It underpins a wide range of disciplines, from the Physical Sciences to Social Science; from Biology to Business and Finance.

## For Details Contact:

**Tribhuvan University**  
**Institute of Science and Technology**  
**School of Mathematical Sciences**

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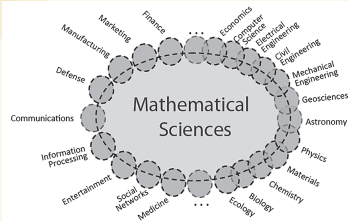


**Tribhuvan University**  
**Institute of Science and Technology**

**School of Mathematical Sciences**

## Established with a noble goal

The Modern Computerized World demands the human resource having all the three attributes – analytical ability, data processing capability and fast computing efficiency. Taking this as a challenge, Tribhuvan University has taken up a pioneering step by deciding to run Bachelor and Master Degree Programs in Mathematical Sciences (B.Math.Sc. and M.Math.Sc.) that will help produce a critical mass of experts with sound knowledge of fundamentals of Mathematics, Statistics and Data Analysis, and Computer Science. To run these programs, Tribhuvan University established School of Mathematical Sciences (SMS TU) in 2016.



## Mission statement

SMS TU is committed to help the learners not only knowing and understanding the modern world but also making them able to combine the development of knowledge and practical skills in solving real-world problems encountered in various disciplines of education.

## Vision Statement

SMS TU is born to provide students with extensive and diverse knowledge in the Mathematical Sciences, i.e. a unique interdisciplinary learning environment for high quality education and research through a blending of the three disciplines: mathematics, statistics and computer science, and thrives to become a Centre of Excellence.



## Actuarial Science in Nepal

For the first time, SMS TU has launched B.Math.Sc. (Actuarial Science). The first two years of B. Math. Sc. programme provides a foundation on a broad range of areas including Mathematics, Statistics and Computer Science. In the remaining two years of the programme that start from the fifth semester, students start studying Actuarial Science as a major subject.

## What is Actuarial Science ?

Actuarial Science is the discipline that applies mathematical and statistical methods to assess risk in insurance, finance and other industries and professions.

The last few years have seen significant activities in the Nepalese insurance sector. Both life and general insurers have upped their market presence and the penetration rate of insurance has been growing, most notably after the devastating earthquake of 2015.

Although there are altogether 39 insurance companies operating in Nepal, a large portion (about



90 percent) of Nepal's population does not have access to insurance services which has created a lucrative market for insurers. Besides, the situation is high and dry when it comes to actuaries.

Nevertheless, insurance companies are struggling hard to get qualified human resources to make an aggressive move in the domestic market. One reason for the low qualified workforce is the lack of university

level courses in insurance in the country. For example, the absence of a course on actuarial science has resulted in a severe scarcity of actuaries for the insurance companies.

There are no actuaries in the country and insurance companies are required to pay high remuneration for foreign actuaries to carry out the actuarial works.

We are running the Actuarial Science Courses similar to the core courses on which the Institute and Faculty of Actuaries (IFoA), UK has been conducting the professional examinations.



It is multidisciplinary, as evidenced by the following description from the Society of Actuaries, USA, the largest actuarial organization:

*An actuary is a business professional who analyzes the financial consequences of risk. Actuaries use mathematics, statistics and financial theory to study uncertain future events, especially those of concern to insurance and pension programs. They evaluate the likelihood of those events, design creative ways to reduce the likelihood and decrease the impact of adverse events that actually do occur. Actuaries are an important part of the management team of the companies that employ them. Their work requires a combination of strong analytical skills, business knowledge and understanding of human behavior to design and manage programs that control risk.*

The school decided to introduce the courses after feeling its immense importance in Nepal, especially for the development of the insurance and banking sectors.

## Evaluation system

Semester Examination – 60%  
Internal Assessment – 40%