

# Mission, Objectives, and Program Learning Outcomes of Bachelor of Science in Mathematics

## 1. Program Mission:

Provide a stimulating academic environment for education and research in various branches of mathematics and its applications to serve the labor market and community inculcating human values among students thus producing well-qualified and competent graduates as per national and international standards.

## 2. Program Goals:

1. To provide Quality Education in Mathematics that is relevant to present day changes and challenges and comparable with similar programs offered by Universities of national and international repute.
2. To develop the logical and analytical thinking, quantitative reasoning and problem-solving skills of the students
3. To prepare the students to take up graduate programs and research in mathematics
4. Preparing the students to meet the job market needs including those requiring professional license. (Modified as per the recommendations of NCAAA and the PAC)
5. To provide adequate facilities for proper teaching and learning of mathematics
6. To prepare the students to serve the society socially as well as economically.

## 3. Program Learning Outcomes\*

### Knowledge and Understanding

K1	Recall and Reproduce the fundamental concepts of Mathematics and Statistics.
K2	Gain knowledge about the application and the usage of programming concepts, mathematical, and statistical packages/software.
K3	Recognize the relationship and interdependency between Mathematics /Statistics and other scientific fields.
K4	Able to identify and describe appropriate methods to solve mathematical and statistical problems

### Skills

S1	Analyze the problems in relation to the associated mathematical and statistical concepts and solve them independently.
S2	Write simple programs and use mathematical and statistical software to solve scientific problems.
S3	Make oral and written presentations before mathematical and non-mathematical audiences.

### Values, Autonomy, and Responsibility

V1	Acquire professional responsibilities coupled with ethical values
V2	Work both individually as well as a team and make a defense on a topic.