



Bachelor of Mathematics 2018-2021

The B. Math (Hons.) degree programme is a premier undergraduate programme in India that offers comprehensive instruction in mathematics along with courses in Probability, Statistics, Computer Science and Physics. It will create in the students the propensity for analytical thinking and illuminate the crucial relationship between mathematics / statistics and other areas of applied science. Upon graduation, students would have acquired enough knowledge and skill to be able to function as practicing professionals.

Compulsory courses:

First year:

Semester I

Calculus of one variable

Probability Theory I

Group Theory

Computer Science I (C Programming)

Writing of Mathematics

Semester II

Metric spaces and Multivariate Calculus

Probability Theory II

Linear Algebra

Mechanics of particles

Second year:

Semester I

Vector Calculus

Statistics I (R programming)

Rings and Modules

Optimization

Thermodynamics and Optics

Semester II

Graph Theory

Statistics II

Field Theory

Topology

Numerical Methods

Third year:

Semester I

Complex Analysis

Statistics III

Electrodynamics

Intro to Differential Geometry

Semester II

Intro to Function Spaces

Intro to Differential Equations

Modern Physics and Quantum Mechanics

Elective courses:

Representation Theory

Algebraic Geometry

Statistics V

Differential Geometry II

Mathematics of Computation

Topics in Optimization

Combinatorics

Applied Stochastic Processes

Stochastic Processes

Stochastic Models in Insurance

Elements of Statistical Computing

Statistics IV

Algebraic Number Theory

Differential Topology

Data Structures

Design and Analysis of Algorithms

Mathematical Morphology and Applications

Introduction to Economics

Themes in Development Theory and Policy

Poverty and Inequality: Theory and Empirics

Number of students from BMath available for internship : 15

Placement Representatives:

Sree Akshaya - 9843660133

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