

Core Departments

Department of Mathematics



The Department of Mathematics has been instrumental in the functioning of the college since its inception in 1989. Mathematics was being taught to the students of other disciplines. This year the department would be offering B.Sc. (Hons.) in Mathematics. The department is located on the second floor of the Academic Block. The department, at present has a well-equipped lab with 30 high-speed P-IV computers with broadband internet facility. The systems are installed with mathematical and statistical software such as MATLAB and SPSS. The department is in the process of expanding the

infrastructure facilities by adding on with another lab with 30 more such systems. The course is designed in such a manner that the students are taught the theoretical concepts in the lecture classes and then they are exposed to the practical concepts using the available software.

The department offers ample opportunities to students to explore and pursue research interests. The department along with the departments of Instrumentation, Biochemistry has completed an innovation project last year. This year, the department is involved in three such projects with the departments of Instrumentation, Electronics and Biochemistry. Ten students are chosen for each project from various departments along with three faculty members and a mentor. The students are paid a monthly stipend of ₹ 1,000/-.



Department of Mathematics

B.Sc. (Hons.) Mathematics

SEMESTER 1	SEMESTER 2
C-I : Calculus C-II : Algebra AECC-I : English/MIL Communication or EVS GE-I	C-III : Real Analysis C-IV : Differential Equations AECC-II : EVS or English/MIL Communication GE-II
SEMESTER 3	SEMESTER 4
C-V : Theory of Real Functions C-VI : Group Theory-I C-VII : Multivariate Calculus SEC-I : LaTeX and HTML GE-III	C-VIII : Partial Differential Equations C-IX : Riemann Integration and Series of Function C-X : Ring Theory and Linear Algebra-I SEC-II : Comp. Algebra Systems & Related Softwares GE-IV
SEMESTER 5	SEMESTER 6
C-XI : Metric Spaces C-XII : Group Theory-II DSE-I DSE-II	C-XIII : Complex Analysis C-IV : Ring Theory and Linear Algebra-II DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE : Discipline Specific Elective

Discipline Specific Electives (DSE) (Credit : 06 each)

DSE-I

- (i) Numerical Methods, or
- (ii) Mathematical Modeling Graph Theory, or
- (iii) C++ Programming

DSE-II

- (i) Mathematical Finance, or
- (ii) Discrete Mathematics, or
- (iii) Cryptography and Network Security

DSE-III

- (i) Probability Theory & Statistics, or
- (ii) Mechanics, or
- (iii) Bio-Mathematics

DSE-IV

- (i) Number Theory, or
- (ii) Linear Programming and Theory of Games, or
- (iii) Application of Algebra

Generic Electives (GE) Papers

Odd Semester

GE-I : Calculus

GE-III : Differential Equations

GE-V (Statistics) : Statistical Methods

Even Semester

GE-II : Linear Algebra

GE-IV : Numerical Methods/Elements of Analysis

GE-VI (Statistics) : Introductory Probability