

Department of Mathematics

B.Sc.

| Sr. No. | Program Specific Outcome By the end of this program, the students will be able to: |
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| PSO 1 | Analyze basic concepts of Mathematics. |
| PSO 2 | Discover applications of pure and applied subjects. |
| PSO 3 | Solve problems in competitive related to logic and aptitude. |
| PSO 4 | Form and find a solution through mathematical modeling related to real world phenomenon. |
| PSO5 | Eligible for specific government post related with mathematics. |

Program Name – B.Sc. I

| Course Name/ paper | Course Outcome By the end of each of the following course, the students will be able to: |
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| Paper I – Differential Calculus | CO 1: Understand De Moivre's Theorem and its applications. CO 2: Solve hyperbolic equations using its properties. CO 3: Find successive differentiation and its applications. CO 4: Analyze concept of partial differentiation with some properties and its applications to maxima and minima. |
| Paper II - Calculus | CO 1: Apply MVT to study properties of functions CO2: Find Taylors and Maclaurins series expansion of functions. CO 3: Understand L'Hospital Rule and its applications to evaluate limits. CO 4: Discover properties of continuous function. |
| Paper III – Differential Equations | CO 1: Formation of differential equations. CO2: Solve first order differential equations and its application to find orthogonal trajectories. CO 3: find a solution of first order higher degree equations. CO 4: Solve linear differential equations with constant coefficients and homogeneous differential equations. |
| Paper IV – Higher order ordinary differential equations and partial order differential equations | CO 1: Apply different methods to solve second order differential equations. CO 2: Solve total differential equation. CO3: Solve ordinary simultaneous differential equations. CO4: Form, Categorize partial differential equations and solve PDE using Charpits method. |