

## **B.SC. MATHEMATICS PROJECT TOPIC**

1. Algebraic Study of Rhotrix Semigroup.
2. Mathematical Models of Control Measures in the Spread of Cholera.
3. Mathematical Modelling of Energy Generation in the Mitochondria.
4. Mathematical Model of Predator-Prey Relationship with Human Disturbance.
5. Magnetohydrodynamic Unsteady Free Convection Flow Past Vertical Porous Plates with Suction and Oscillating Boundaries.
6. Evaluation of Reliability and Availability Characteristics of Two Different Systems Using Linear First Order Differential Equation.
7. The Shortest Path Problem.
8. Mathematical Model on Hearing Mechanism.
9. Mathematical Model on Gonorrhoea Transmission.
10. Integer and Mixed Integer Model.
11. A Mathematical Model on the Dynamics of Ebola Virus Diseases in Human Population.
12. Implementation of Derivative-Free Optimization Methods.

13. Multiderivative Linear Multistep Methods for Initial Value Problems (IVPs) in Ordinary Differential Equations (ODEs).
14. Application of Matrix in Solutions of Some Physical Problems in Science and Engineering.
15. Mathematical Model on Human Population Dynamics Using Delay Differential Equation.
16. Methods of Solution of Second Order Ordinary Differential Equation Involving Variable Coefficients.
17. Mathematical Model for the Spread and Control of Chicken Pox (Varicella).
18. Mathematical Model for the Dynamic Spread and Control of Polio in Nigeria.
19. Banach Fixed Point Theorem and Its Application.
20. Laplace Transform and Its Application to Circuit Problems.
21. Mathematical Modeling of Blood Flow in a Stenosed Artery Using Navier–Stokes Equations.
22. Heat and Mass Transfer in a Porous Channel with Variable Permeability.
23. Mathematical Analysis of Oil Recovery in a Dual–Porosity Reservoir.

24. Mathematical Modeling of Drug Concentration in the Human Body.
25. Comparative Study of Euler and Runge–Kutta Methods for Solving ODEs.
26. Application of Newton–Raphson Method in Solving Nonlinear Engineering Problems.
27. Effect of Radiation on Hydromagnetic Flow Between Two Parallel Plates.
28. Tumor Growth Model Using Reaction–Diffusion Equations.
29. Analytical Solution of Laplace Equation in Cylindrical Coordinates.
30. Mathematical Modeling of Vibrations in a String with Variable Density.
31. Error Analysis of Numerical Methods for Boundary Value Problems.
32. Fourier Series and Convergence Theorems.
33. Lebesgue Measure and Lebesgue Integration.
34. Conformal Mapping and Applications.
35. Prime Numbers and Fundamental Theorem of Arithmetic.
36. Connectedness and Compactness in Topological Spaces.
37. Separation Axioms in Topology.