

Batch-2024-26\_Sem-4

M.Sc. Math

Project

Sub-Code MTH715

Choose any one of the following 30 Project Topic

**A. Pure Mathematics Projects**

1. Study of Group Theory and Its Applications
2. Rings and Fields: A Mathematical Analysis
3. Linear Algebra and Matrix Theory Applications
4. Topological Spaces and Their Properties
5. Real Analysis and Convergence of Sequences
6. Complex Analysis and Analytic Functions

**B. Applied Mathematics Projects**

7. Mathematical Modelling of Population Growth
8. Mathematical Modelling in Epidemic Diseases
9. Optimization Techniques in Business Problems
10. Mathematical Modelling of Traffic Flow
11. Operations Research in Decision Making
12. Game Theory and Strategic Decision Making

**C. Differential Equations Projects**

13. Applications of Differential Equations in Engineering
14. Partial Differential Equations and Heat Transfer
15. Mathematical Modelling using Differential Equations
16. Solution of Nonlinear Differential Equations
17. Boundary Value Problems and Applications
18. Wave Equation and Its Applications

**D. Statistics & Probability Projects**

19. Probability Distribution and Applications
20. Statistical Analysis of Population Data
21. Regression Analysis and Prediction Models
22. Time Series Analysis and Forecasting
23. Sampling Techniques and Statistical Inference
24. Correlation and Data Analysis Study

**E. Numerical Methods & Computational Mathematics**

25. Numerical Solution of Differential Equations
26. Newton-Raphson Method and Applications
27. Numerical Integration Techniques
28. Error Analysis in Numerical Methods
29. Mathematical Programming and Optimization
30. MATLAB / Python Based Mathematical Computation Study