

M.Sc. Mathematics
(Two-year programme 2024 -2026)

Course Structure

Semester-I

Sl. No	Course Basket	Subject Name	Credits
1	Core	Fluid Dynamics	4
2	Core	Advanced differential equations	4
3	Core	Advanced Algebra	4
4	Core	Differential Geometry	4
5	Core	Advanced complex analysis	4
		Total	20

Semester-II

Sl. No	Course Basket	Subject Name	Credits
1	Core	Numerical Methods for CFD	4
2	Core	Optimization techniques	4
3	Core	Applied Number Theory	4
4	Core	Graph Theory	4
5	Core	Advanced Statistical Methods	4
6	Skill	Excel	2
7	Value added	Indian Society and Culture	2
		Total	24

Semester-III

Sl. No	Course Basket	Subject Name	Credits
1	Core	Research Methodology & IPR	4
2	Core	Topology	4
3	Core	Data Analysis and Visualization using Python	4
4	Core	Heat and Mass Transfer	4
5	Core	Functional Analysis	4
6	Core	Integral Equation	4
		Total	24

Semester-IV

Sl. No	Course Basket	Subject Name	Credits
1	Core	Machine Learning using Python	4
2	Core	Grid Generation and CFD simulation using SIMULIA	4
3	Core	Advanced Calculus	4
4	Core	Operation Research	4
5	Core	Descriptive statistics & Data analysis	4
6	Skill	Digital Painting	4
		Total	24