

Department: Mathematical Sciences
List of Courses offered by the Department for Spring Semester, 2021

PROGRAMME: M.SC. IN MATHEMATICS

Semester-II

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MS 406	Complex Analysis	3-1-0	4	Core
MS 414	Theory of Ordinary Differential Equations	3-1-0	4	Core
MS 408	Topology	3-1-0	4	Core
MS 416	Numerical Analysis+	3-1-0	4	Core
MS 424	Computer Lab	0-0-1	1	Core

Semester-IV

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MS 501	Classical Mechanics	3-1-0	4	Core
MS 508	Mathematical Methods	3-1-0	4	Core
MS 599	Probability Thoery	3-1-0	4	Core
MS 541	Fluid Mechanics	3-1-0	4	Elective
MS 552	Operator Theory I	3-1-0	4	Elective
MS 566	Fourier Analysis	3-1-0	4	Elective
MS 570	Coding Theory II	3-1-0	4	Elective
MS 574	Galois Theory	3-1-0	4	Elective
MS 517#	Project	0-0-8	4	Core
MS 503*	Mathematical Programming	2-1-0	3	Core
MS 515*	Project	0- 0- 6	3	Core

for X-grade students , * for backlog students

PROGRAMME: INTEGRATED M.SC. /B.SC. B.ED. IN MATHEMATICS

Semester-II

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MI/D 102	Mathematics – II	2-1-0	3	GE (non major)
MI/D 104	Real Analysis II	2-1-0	3	Core
MI/D 106	Group Theory	2-1-0	3	Core

Semester-IV

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MI/D 218	Introductory ODE & PDE	3-1-0	4	Core
MI/D 220	Linear Algebra-I	3-1-0	4	Core
MI/D 222	Co-ordinate Geometry	3-1-0	4	Core
MI/D 224	Numerical Methods and Boolean Algebra	3-1-0	4	Core
MI 226	Introductory Topology	3-1-0	4	Core
MI/D 210*	Elementary Abstract Algebra	2-1-0	3	Core
MI/D 214*	Linear Spaces and Linear Programming	2-1-0	3	Core
MI/D 216*	Elementary Real Analysis	2-1-0	3	Core

*For backlog students

Semester-VI

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MI 312	Ring Theory	2-1-0	3	3 CORE
MI/D 314	Elementary Number Theory	3-1-0	4	CORE

MI/D 316	Introduction to Optimization	3-1-0	4	CORE
MI 318	Elementary Integral Transforms and Special Functions	3-1-0	4	CORE
MD 318	Introductory Topology	3-1-0	4	CORE
MI 322	Seminar	0-0-3	3	CORE
MI 320	Elementary Coding and Information Theory	3-1-0	4	CORE
MI 410*	Measure Theory	2-1-0	3	Core

***For backlog students**

Semester- VIII

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MI 302	Numerical Analysis	3-1-0	4	Core
MI 310	Computer Laboratory	0-0-2	2	Core
MI 408	Complex Analysis	3-1-0	4	Core
MI 412	Mathematical Methods	3-1-0	4	Core
MI 504	Mathematical Programming	2-1-0	3	Core
MD 410	Measure Theory	3-0-0	3	Core

Semester- X

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MI 401	Classical Mechanics	3-1-0	4	Core
MI 515	Project	0-0-8	8	Core
MI 541	Fluid Mechanics	3-1-0	4	Elective
MI 552	Operator Theory I	3-1-0	4	Elective
MI 566	Fourier Analysis	3-1-0	4	Elective
MI 570	Coding Theory II	3-1-0	4	Elective
MI 574	Galois Theory	3-1-0	4	Elective

CBCS

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MS 451	Probability and Statistics	2-1-0	3	Open Elective

Ph.D. Coursework (Semester- I & II)

Course Code	Course Title	L- T- P	Credit	Core/ Elective
MS750	Research Methodology in Mathematical Sciences	2-0-2	4	Core