

Department of Master in Mathematics

CURRICULUM & CREDIT FRAMEWORK AND FORMATIVE ASSESSMENT FOR
MASTER IN MATHEMATICS 2 YEAR PROGRAM
Scheme of Examinations under National Education Policy 2020

M.Sc. (Mathematics):

First Year Semester I					
Sr.No	Courses	Course Title	Course Code	Remarks	Credits
1	Major 1	Abstract Algebra	24MAT201DS01	Compulsory	4
2	Major 2	Mathematical Analysis	24MAT201DS02	Compulsory	4
3	Major 3	Complex Analysis	24MAT201DS03	Compulsory	4
4	Major 4	Mathematical Statistics	24MAT201DS04	Compulsory	4
5	Major 5	Analytical Number Theory	24MAT201DS05	Compulsory	4
6	Skill Enhancement Course(SEC)	Discrete Mathematics	24MAT201SE01	Compulsory	4

Scheme for Distribution of Marks:

Sr. No	Course Title	Course Code	Theory Marks		Practical Marks		Total Marks	Exam Time	Credit Distribution		
			Int.	Ext.	Int.	Ext.			L	T	P
1	Abstract Algebra	24MAT201DS01	30	70	-	-	100	3 hrs	3	1	0
2	Mathematical Analysis	24MAT201DS02	30	70	-	-	100	3 hrs	3	1	0
3	Complex Analysis	24MAT201DS03	30	70	-	-	100	3 hrs	3	1	0
4	Mathematical Statistics	24MAT201DS04	30	70	-	-	100	3 hrs	3	1	0
5	Analytical Number Theory	24MAT201DS05	30	70	-	-	100	3 hrs	3	1	0
6	Discrete Mathematics	24MAT201SE01	30	70	-	-	100	3 hrs	3	1	0

First Year Semester II

Sr.No	Courses	Course Title	Course Code	Remarks	Credits
1	Major 1	Theory of Field Extensions	24MAT202DS01	Compulsory	4
2	Major 2	Measure & Integration Theory	24MAT202DS02	Compulsory	4
3	Major 3	Integral Equations & Calculus of Variations	24MAT202DS03	Compulsory	4
4	Major 4	Operations Research Techniques	24MAT202DS04	Compulsory	4
5	Major 5	Algebraic Number Theory	24MAT202DS05	Compulsory	4
6	Skill Enhancement Course(SEC)	Python programming	24MAT202SE02	Compulsory	4

Scheme for Distribution of Marks:

Sr. No	Course Title	Course Code	Theory Marks		Practical Marks		Total Marks	Exam Time	Credit Distribution		
			Int.	Ext.	Int.	Ext.			L	T	P
1	Theory of Field Extensions	24MAT202DS01	30	70	-	-	100	3 hrs	3	1	0
2	Measure & Integration Theory	24MAT202DS02	30	70	-	-	100	3 hrs	3	1	0
3	Integral Equations & Calculus of Variations	24MAT202DS03	30	70	-	-	100	3 hrs	3	1	0
4	Operations Research Techniques	24MAT202DS04	30	70	-	-	100	3 hrs	3	1	0
5	Algebraic Number Theory	24MAT202DS05	30	70	-	-	100	3 hrs	3	1	0
6	Python programming	24MAT202SE02	15	35	15	35	100	3 hrs	2	0	2

Second Year Semester III					
Sr.No	Courses	Course Title	Course Code	Remarks	Credits
1	Major 1	Functional Analysis	25MAT203DS01	Compulsory	4
2	Major 2	Elementary Topology	25MAT203DS02	Compulsory	4
3	Major 3	Fluid Dynamics	25MAT203DS03	Compulsory	4
4	Major 4	Ordinary Differential Equation	25CMAT203DS04	Compulsory	4
5	Major 5	Graph Theory	25MAT203DS05	Compulsory	4
6	Skill Enhancement Course(SEC)	Mat Lab	25MAT203SE01	Compulsory	4

Scheme for Distribution of Marks:

Sr. No	Course Title	Course Code	Theory Marks		Practical Marks		Total Marks	Exam Time	Credit Distribution		
			Int.	Ext.	Int.	Ext.			L	T	P
1	Functional Analysis	25MAT203DS01	30	70	0	0	100	3 hrs	3	1	0
2	Elementary Topology	25MAT203DS02	30	70	0	0	100	3 hrs	3	1	0
3	Fluid Dynamics	25MAT203DS03	30	70	0	0	100	3 hrs	3	1	0
4	Ordinary Differential Equations	25MAT203DS04	30	70	0	0	100	3 hrs	3	1	0
5	Graph Theory	25MAT203DS05	30	70	0	0	100	3 hrs	3	1	0
6	Mat Lab	25MAY203SE01	15	35	15	35	100	3 hrs	2	0	2

Second Year Semester IV					
Sr.No	Courses	Course Title	Course Code	Remarks	Credits
1	Major 1	Inner Product Spaces and Measure Theory	25MAT204DS01	Compulsory	4
2	Major 2	Classical Mechanics	25MAT204DS02	Compulsory	4
3	Major 3	Viscous Fluid Dynamics	25MAT204DS03	Compulsory	4
4	Major 4	Partial Differential Equations	25MAT204DS04	Compulsory	4
5	Major 5	AI and Expert Systems	25MAT204DS05	Compulsory	4
6	Skill Enhancement Course(SEC)	Data Base Management System	25MAT204SE01	Compulsory	4

Scheme for Distribution of Marks:

Sr. No	Course Title	Course Code	Theory Marks		Practical Marks		Total Marks	Exam Time	Credit Distribution		
			Int.	Ext.	Int.	Ext.			L	T	P
1	Inner Product Spaces and Measure Theory	25MAT204DS01	30	70	0	0	100	3 hrs	3	1	0
2	Classical Mechanics	25MAT204DS02	30	70	0	0	100	3 hrs	3	1	0
3	Viscous Fluid Dynamics	25MAT204DS03	30	70	0	0	100	3 hrs	3	1	0
4	Partial Differential Equations	25MAT204DS04	30	70	0	0	100	3 hrs	3	1	0
5	Artificial Intelligence and Expert System	25MAT204DS05	15	35	15	35	100	3 hrs	2	0	2
6	Data Base Management System	25MAT204SE01	15	35	15	35	100	3 hrs	2	0	2

Link: [Syllabi of UG and PG Programs revised in July 2025 - Google Drive](#)