

**Curriculum Structure of 2 year M. Sc. Program in Mathematics  
(w. e. f. Academic Session 2023-24)**

**First Semester**

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	19M21MA111	Department Core-1 (Ordinary Differential Equations)	3	1	-	4	4
2	19M21MA112	Department Core-2 (Real Analysis)	3	1	-	4	4
3	19M21MA113	Department Core-3 (Abstract Algebra)	3	1	-	4	4
4	19M21MA114	Department Core-4 (General Topology)	3	1	-	4	4
5	19M21MA115	Department Core-5 (Mathematical Methods)	3	1	-	4	4
6	19M21HS111	Presentation and Communication Skills *	2	-	-	2	Audit
		Total	17	5	0	22	20

**Second Semester**

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	19M21MA116	Department Core-6 (Linear Algebra)	3	1	-	4	4
2	19M21MA211	Department Core-7 (Mathematical Statistics)	3	1	-	4	4
3	19M21MA119	Department Core-8 (Functional Analysis)	3	1	-	4	4
4	19M21MA120	Department Core-9 (Partial Differential Equations)	3	1	-	4	4
5	19M21MA118	Department Core-10 (Computer Programming)	3/2	0/1	-	3	3
6	19M25MA111	Department Lab-I (Computer Programming Lab)	-	-	2	2	1
7	xxxxxxxx	DE-I	3	-	-	3	3
		Total	18/17	4/5	2	24	23

**Third Semester**

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	19M21MA117	Department Core-11 (Complex Analysis)	3	1	-	4	4
2	19M21MA212	Department Core-12** (Numerical Analysis)	3	0/1	-	3/4	3/4
3	19M21MA213	Department Core-13 (Operations Research)	3	-	-	3	3
4	xxxxxxxx	DE-II	3	-	-	3	3
5	xxxxxxxx	DE-III	3	-	-	3	3
6	xxxxxxxx	DE-IV	3	-	-	3	3
7	xxxxxxxx	DE-V	3	-	-	3	3
8	19M25MA212	Department Lab-II (Operations Research Lab)	-	-	2	2	1
9	19M25MA211	Department Core Lab-III** (Numerical Analysis Lab)	-	-	2/0	2/0	1/0
		Total	21	1/2	4/0	26/25	24/24

**Fourth Semester**

S.No.	Course Code	Course Title	Contact Hours				Credit
			L	T	P	Total	
1	xxxxxxx	DE-V	3	-	-	3	3
2	xxxxxxx / 19M27MA211	Industrial project work / Dissertation	-	-	20	20	10
		Total	3	-	20	23	13

**Total Credits: 80**

\*Audit course can be one or more of zero credit and in 1-0-2 or 2-0-0 or 0-0-2 mode.

\*\*The Department Core includes theory of 3 credits and lab of 1 credit OR theory of 4 credits.