Curriculum Structure of 2-year M. Sc. Programme in Mathematics

(w. e. f. Academic Session 2019-20)

First Semester

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

Second Semester

S. No.	Course Code	Course Name	Core/ Elective	Contact Hours				Credits
				L	T	P	Total	
1.	19M21MA116	Linear Algebra	Core	3	1	-	4	4
2.	19M21MA117	Complex Analysis)	Core	3	1	-	4	4
3.	19M21MA118	Computer Programming	Core	3	-	-	3	3
4.	19M21MA119	Functional Analysis	Core	3	1	-	4	4
5.	19M21MA120	Partial Differential Equations	Core	3	1	-	4	4
6.	19M25MA111	Computer Programming Lab	Core	-	-	2	2	1
		Total						**20**

Third Semester

S. No	Course Code	Course Name	Core/ Elective	Contact Hours				Credits
				L	T	P	Total	
1.	19M21MA211	Mathematical Statistics	Core	3	1	-	4	4
2	19M21MA212	Numerical Analysis	Core	3	-	-	3	3
3.	19M21MA213	Operations Research	Core	3	-	-	3	3
4.	XXXXXXXXX	DE- 1	Elective	3	-	-	3	3
5.	XXXXXXXXX	DE- 2	Elective	3	-	-	3	3
6.	XXXXXXXXX	DE- 3	Elective	3	-	-	3	3
7.	19M25MA211 / 19M25MA212	Numerical Analysis & Operations Research Lab	Core	-	-	4	4	2
		Total						**21**

Fourth Semester

S.N.	Course Code	Course Name	Core/ Elective	Contact Hours				Credits
				L	T	P	Total	
1.	XXXXXXXXX	DE- 4	Elective	3	-	-	3	3
2.	XXXXXXXXX	DE- 5	Elective	3	-	-	3	3
3.	XXXXXXXXX	DE- 6	Elective	3	-	-	3	3
4.	19M27MA211	Dissertation	Core	-	-	-	-	10
		Total						**19**

Total Credits   80

Department Electives (DE)

Third Semester

S. No.	DE- 1	DE- 2	DE- 3
1.	Advanced Matrix Theory	Fluid Dynamics	Fuzzy Sets and Applications
2.	Measure Theory	Wave Propagation	Data Structures
3.	Differential Geometry & Tensors	Continuum Mechanics	Multivariate Analysis

Fourth Semester

S. No.	DE- 4	DE- 5	DE- 6
1.	Wavelet Theory & Its Applications	Advanced Numerical Methods	Theory of Data Science
2.	Number Theory	Theory of Computation	Linear models and Regression Analysis
3.	Graph Theory	Database-Management System	Mathematical Imaging
4.	--------------------	Advanced Operations Research	--------------------

Note: In the beginning of the respective semesters, the department will announce the list of elective courses to be offered during the semester.