



Course Name: M.Sc. - Mathematics

Course Structure (2018-19)

Faculty of Physical Sciences
Department of Mathematics
M.Sc. - Mathematics

Scheme of Studies and Examination

1st Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Real Analysis	MATH5101	Core	4	1	0	5	4.5	40	60	100
2	Algebra	MATH5102	Core	4	1	0	5	4.5	40	60	100
3	Fluid Mechanics	MATH5103	Core	4	1	0	5	4.5	40	60	100
4	Topology	MATH5104	Core	4	1	0	5	4.5	40	60	100
Total				16	4	0	20	18			400

2nd Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Functional Analysis	MATH5105	Core	4	1	0	5	4.5	40	60	100
2	Differential Geometry	MATH5106	Core	4	1	0	5	4.5	40	60	100
3	Complex Analysis	MATH5107	Core	4	1	0	5	4.5	40	60	100
4	Symbolic Computing and Numerical Analysis	MATH5108	Core	4	1	0	5	4.5	40	60	100
Total				16	4	0	20	18			400

3rd Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Measure Theory	MATH6101	Core	4	1	0	5	4.5	40	60	100
2	Optimization Theory	MATH6102	Core	4	1	0	5	4.5	40	60	100
3	Module Theory	MATH6103	Core	4	1	0	5	4.5	40	60	100
4	Combinatorial Mathematics	MATH6104	Core	4	1	0	5	4.5	40	60	100
Total				16	4	0	20	18			400

4th Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Theory of operators	MATH6105	Core	4	1	0	5	4.5	40	60	100
2	Probability Theory	MATH6106	Core	4	1	0	5	4.5	40	60	100
3	Fuzzy sets and Fuzzy logic	MATH6201	Elective	4	1	0	5	4.5	40	60	100
4	Computational methods of partial differential equations	MATH6202	-do-								
5	Dynamical Oceanography	MATH6203	-do-								
6	Plasma Mechanics	MATH6204	-do-								
7	Approximation Theory	MATH6205	-do-								
8	Banach Algebra	MATH6206	-do-								
	Project	MATH6107	Core	0	0	15	15	7.5	60	140	200
Total				12	3	15	30	21			500
Grand Total											1700

Note: The student has to elect one paper from Elective (MATH6201 to MATH6206)