

Scheme of Studies

Semester-I

Sr. No.	Course Code	Course Title	Credit Hours			Page No.
			Theory	Lab	Total	
1	MATH3111	Real Analysis-I	3	0	3	5
2	MATH3112	Group Theory-I	3	0	3	6
3	MATH3113	Complex Analysis	3	0	3	7
4	MATH3114	Linear Algebra	3	0	3	8
5	MATH3115	Vector and Tensor Analysis	3	0	3	9
6	COMP1112	Programming Fundamentals	3	1	4	10
Total			19			

Semester-II

Sr. No.	Course Code	Course Title	Credit Hours			Page No.
			Theory	Lab	Total	
1	MATH3117	Real Analysis-II	3	0	3	11
2	MATH3118	Number Theory	3	0	3	12
3	MATH3119	Introduction to Topology	3	0	3	13
4	MATH3120	Mathematical Statistics	3	0	3	14
5	PHYS3112	Classical Mechanics	3	0	3	15
Total			15			

Semester-III

Sr. No.	Course Code	Course Title	Credit Hours			Page No.
			Theory	Lab	Total	
1	MATH4111	Functional Analysis	3	0	3	16
2	MATH4112	Numerical Analysis-I	3	0	3	17
3	MATH4113	Rings and Modules	3	0	3	18
4	MATHXXXX	Elective-I (From List of Elective Courses)	3	0	3	
5	MATHXXXX / MATH4114	Elective-II (From List of Elective Courses) / Thesis	3	0	3	
6	MATH4115	Guests/Students Seminar-I	1	0	1	
Total			16			

Semester-IV

Sr. No.	Course Code	Course Title	Credit Hours			Page No.
			Theory	Lab	Total	
1	PHYS3111	Mathematical Methods of Physics-I	3	0	3	19
2	MATH4117	Differential Geometry	3	0	3	20
3	MATH4118	Numerical Analysis-II	3	0	3	21
4	MATHXXXX	Elective-III (From List of Elective Courses)	3	0	3	
5	MATHXXXX / MATH4114 / MATH4119	Elective-IV (From List of Elective Courses) / Thesis / Research Project*	3	0	3	
6	MATH4120	Guests/Students Seminar-II	1	0	1	
Total			16			

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