

Semester-wise Pattern for Students Admitted to M.Sc. Mathematics Programme								
Year	First Semester			U	Second Semester			U
I	BIO	F110	Biology Laboratory	1	MATH	F112	Mathematics II	3
	BIO	F111	General Biology	3	ME	F110	Workshop Practice	2
	CHEM	F110	Chemistry Laboratory	1	CS	F111	Computer Programming	4
	CHEM	F111	General Chemistry	3	EEE	F111	Electrical Sciences	3
	MATH	F111	Mathematics I	3	BITS	F112	Technical Report Writing	2
	PHY	F110	Physics Laboratory	1	MATH	F113	Probability and Statistics	3
	PHY	F111	Mechanics, Oscillations and Waves	3	BITS	F111	Thermodynamics	3
	BITS	F110	Engineering Graphics	2				
			17				20	
II	MATH	F211	Mathematics III	3	ECON	F211	Principles of Economics or	3
			Humanities Electives	3(min)			or	3
	MATH	F212	Optimization	3	MGTS	F211	Principles of Management	3
							Humanities Electives	3(min)
	MATH	F213	Discrete Mathematics	3	MATH	F241	Mathematical Methods	3
	MATH	F214	Elementary Real Analysis	3	MATH	F242	Operations Research	3
				MATH	F243	Graphs & Networks	3	
				MATH	F244	Measure & Integration	3	
			18(min)				18(min)	
Summer BITS F221 Practice School – I (for PS Option Only)								
III	MATH	F311	Open/Humanities Electives	3to6			Open/Humanities Electives	0to3
	MATH	F312	Introduction to Topology	3	MATH	F341	Introduction to Functional Analysis	3
			Ordinary Differential Equations	3	MATH	F342	Differential Geometry	3
	MATH	F313	Numerical Analysis	3	MATH	F343	Partial Differential Equations	3
		Discipline Electives	6			Discipline Electives	9	
			18/21				18/21	
IV	Open Electives			8to14	BITS	F412	Practice School-II or	20
					BITS	F421T	Thesis or Thesis (9) and Electives (6 to 9)	16
			8/14				15to18	
							15/20	

Discipline Core - 42 Units (14 Courses)

Discipline Electives - 15 Units (5 Courses)

**Note:** This is operative pattern for the students who are admitted from August 2011 onwards as approved by the Senate-appointed committee, subject to change if the situation warrants.