Course: MSc (Mathematics-Major) COURSE STRUCTURE

Year(2 Year PG)	Level/ Year	Sem	Major		Minor	OE Open Elective	VSC, SEC (VSEC) Skill	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Total
			Mandatory DSC	Electives DSE						
I	6 .0	I	MAT51101 : Advance Course in Linear Algebra (Theory) 4 Cr MAT51102 : Real Analysis (Theory) 4Cr MAT51103 : Advance Course in Group Theory (Theory) 4 Cr MAT51104 : Practical (Practical) 2Cr	MAT51105 Major Elective-1 : Advance Calculus (Theory) 4 Cr MAT51106 Major Elective-2 : Advance Course in Ordinary Differential Equations (Theory) 4 Cr	MAT51107 RM (Theory) 4 Cr					22

		II	MAT52101 : Advance course in Complex Analysis (Theory) 4 Cr MAT52102 : General Topology (Theory) 4 Cr MAT52103 : Rings and Modules (Theory) 4 Cr MAT52104 : Practical (Practical) 2 Cr	MAT52105 Major Elective-3 : Advance Course in Numerical Analysis (Theory) 4 Cr MAT52106 Major Elective-4 : Advance course in Partial Differential Equations (Theory) 4 Cr					MAT52607 On Job Training 4 Cr	22

		III	MAT63101 : Functional Analysis (Theory) 4 Cr MAT63102 : Field Theory (Theory) 4 Cr MAT63103 : Integral Equations (Theory) 4 Cr MAT63104 : Practical (Practical) 2 Cr	MAT63105 Major Elective-3(A) : Combinatorics (Theory) 2 Cr MAT63106 Major Elective-3(B) : Practical (Practical) 2 Cr MAT63107 Major Elective-4(A) : Mathematical Techniques using Python (Theory) 2 Cr MAT63108 Major Elective-					MAT63609 RP 4 Cr	22

II	**6.5 / II**	IV	MAT640101 : Fourier Series and Boundary Value Problems (Theory) 4 Cr MAT640102 : Differential Geometry (Theory) 4 Cr MAT640103 : Probability and Statistics (Theory) 4 Cr	MAT640104 Major Elective-5(A) : Number Theory and Coding Theory (Theory) 2 Cr					MAT640608 RP 6 Cr	22

				MAT640105 Major Elective-5(B) : Practical (Practical) 2 Cr MAT640106 Major Elective-6(A) : Introduction to Data Science (Theory) 2 Cr MAT640107 Major Elective-6(B) : Practical (Practical) 2 Cr						