

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc (Mathematics)
Semester: III
Syllabus with Effect from: June-2013

Course Type	Course Code	Name Of Course	Theory/practical	Credit	Contact Hrs/Week	Exam Duration in hrs	Component of Marks		
							Internal	External	Total
							Total/Passing	Total/Passing	Total/Passing
Core Courses (Any Two)	PS03CMTH01	Real Analysis - II	Theory	4	05	03	30	70	100
	PS03CMTH02	Mathematical Methods - I	Theory	4	05	03	30	70	100
	PS03CMTH03	Comprehensive Viva		1					
Elective Courses (Any Four)	PS03EMTH01	Functional Analysis - II	Theory	4	05	03	30	70	100
	PS03EMTH02	Banach Algebras	Theory	4	05	03	30	70	100
	PS03EMTH03	Problems and Exercises in Mathematics - II	Theory	4	05	03	30	70	100
	PS03EMTH04	Differential Manifold - I	Theory	4	05	03	30	70	100
	PS03EMTH05	Harmonic Analysis - I	Theory	4	05	03	30	70	100
	PS03EMTH06	Geometric Topology: Homotopy, Triangulations and surfaces	Theory	4	05	03	30	70	100
	PS03EMTH07	Wavelets	Theory	4	05	03	30	70	100
	PS03EMTH08	Group Theory	Theory	4	05	03	30	70	100
	PS03EMTH09	Theory of Ordinary Differential Equations	Theory	4	05	03	30	70	100
	PS03EMTH10	Topology – II (Effect from June-2013)	Theory	4	05	03	30	70	100
	PS03EMTH11	Mathematical Probability Theory	Theory	4	05	03	30	70	100
	PS03EMTH12	Financial Mathematics - I	Theory	4	05	03	30	70	100
	PS03EMTH13	Operations Research	Theory	4	05	03	30	70	100
	PS03EMTH14	Tensors and Applications	Theory	4	05	03	30	70	100
PS03EMTH15	C Programming and Mathematical Algorithms - I	Theory Practical	4	02L+4P	02+03	30	70	100	
PS03EMTH16	Relativity - I	Theory	4	05	03	30	70	100	



	PS03EMTH17	Fluid Dynamics - I	Theory	4	05	03	30	70	100
	PS03EMTH18	Quantum Mechanics - I	Theory	3	05	03	30	70	100
	PS03EMTH19	Electromagnetic Theory - I	Theory	4	05	03	30	70	100
	PS03EMTH20	Statistical Mechanics - I	Theory	4	05	03	30	70	100
	PS03EMTH21	Mathematics Education - I	Theory	4	05	03	30	70	100
	PS03EMTH22	Research Seminars - I	Theory	4	05	03	30	70	100
	PS03EMTH23	Graph Theory - II	Theory	4	05	03	30	70	100
	PS03EMTH24	C Programming and Mathematical algorithms - II	Theory Practical	4	02L+4P	02+03	30	70	100
	PS03EMTH25	Graph Theory - I	Theory	4	05	03	30	70	100
	PS03EMTH26	Applied Classical Mechanics	Theory	4	05	03	30	70	100
	PS03EMTH27	Topology – II (Revised) (Effect from July-2014)	Theory	4	05	03	30	70	100

