PES's Modern College of Arts, Science and Commerce(Autonomous), Ganeshkhind, Pune 16 Department of Mathematics Structure of MSc(Mathematics)

Semester	Vertical	Name of the Paper	Theory/ Practical	No of Credits	CIE	ESE	Total
	Major	Advance Course in Linear Algebra	Theory	4	40	60	100
		Real Analysis	Theory	4	40	60	100
		Advance Course in Group	Theory	4	40	60	100
		Practical in Python Programming -I	Practical	2	20	30	50
	DSE	Advance Calculus	Theory	4	40	60	100
		Advance course in Ordinary Differential Equations	Theory	4	40	60	100
	Minor	Research Methodology	Theory	2	20	30	50
	Minor	Research Methodology	Practical	2	20	30	50
=	Major	Advance Course in Complex Analysis	Theory	4	40	60	100
		General Topology	Theory	4	40	60	100
		Rings and Modules	Theory	4	40	60	100
		Introduction to MS-Excel	Practical	2	20	30	50
	DSE	Advance Course in Numerical Analysis	Theory	4 OR	40	60	100
		Advance course in Ordinary Differential Equations	Theory	4	40	60	100
	Minor	On Job Training	ОЈТ	4	40	60	100
		Functional Analysis	Theory	4	40	60	100

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III	Major	Field Theory	Theory	4	40	60	100		
		Integral Equtions	Theory	4	40	60	100		
		Practical in Combinatorics	Practical	2	20	30	50		
	DSE	Mathematical							
		Techniques using Python	Theory	2	20	30	50		
		Mathematica Practical Based on Mathematical Techniques using Python	Practical	2	20	30	50		
		rearmiques asing ryanon	Tractical		20	30	30		
		OR							
		Advance Complex	Theory	2	20	30	50		
		Analysis Mathematica Practical	Theory		20	30	50		
		Based on Advance							
		Complex Analysis	Practical	2	20	30	50		
	Minor	Research Project	Practical	4	20	30	50		
	Major	Fourier Series and Boundary Value	Theory	4	40	60	100		
		Differential Geometry	Theory	4	40	60	100		
		Probability and Statistics	Theory	4	40	60	100		
		Introduction to Data Science	Theory	2	20	30	50		
IV		Mathematica Practical	•						
IV		Based on Introduction	Practical	2	20	30	50		
	DSE								
		Number Theory and its applications	Theory	2	20	30	50		
		Mathematics Practical Bases on Number Theory	Practical	2	20	30	50		
	Minor	Research Project	Practical	6	60	90	150		