PES's Modern College of Arts, Science and Commerce(Autonomous),
Ganeshkhind, Pune 16
Department of Mathematics
Structure of MSc(Industrial
Mathematics with Computer
Applications) Part I
2025-26

Semester	Vertical	Name of the Paper	Theory/ Practical	No of Credits	CIE	ESE	Total
I	Major	Advance Course in Linear Algebra	Theory	4	40	60	100
		Discrete Mathematics	Theory	4	40	60	100
		Data Structure	Theory	2	20	30	50
		Programming with C++	Theory	2	20	30	50
		Lab Course on Data Structure using C++	Practical	2	20	30	50
	DSE	Probability and Statistics	Theory	2	20	30	50
			Practical	2	20	30	50
		Computer Networks		2	20	30	50
			Theory				
			Practical	2	20	30	50
	Minor	Research Methodology	Theory	2	20	30	50
	Minor	Research Methodology	Practical	2	20	30	50
	Major	Advance Course in Algebra	Theory	4	40	60	100
		Foundation Course in analysis	Theory	4	40	60	100

II		Programming with Python	Theory	2	20	30	50
		Programming with JAVA	Theory	2	20	30	50
		Lab Course on JAVA	Practical	2	20	30	50
	DSE	DOT NET	Theory	2	20	30	50
			Practical	2	20	30	50
		OR					
		Data Mining	Theory	2	20	30	50
			Practical	2	20	30	50
	Minor	On Job Training	OJT	4	40	60	100