

Syllabus of QMB for MS (QMBA) Admission Test 2026

Algebra: Set Theory, AP, GP, HP, Binomial Theorem, Exponential Series, Logarithmic Series, Sequence, Permutations and Combinations, Theory of Equations, Principle of Mathematical Induction.

Linear Algebra: Vectors and Matrices, Matrix Operations, Determinants, Systems of linear equations, Vector Space, Subspaces, Basis, Dimension, Rank, Nullity, Eigenvalues and eigenvectors, quadratic forms.

Calculus: Functions, Limits, Continuity, Differentiation of functions of one or more variables and their Extrema, Lagrange Multiplier Method, Definite and Indefinite Integrals, Integration by parts and integration by substitution, Laplace Transform, Double integrals and their applications, Taylor series, Convergence.

Trigonometry: Trigonometrical identities, functions, and their properties.

Descriptive Statistics: Measures of Central Tendency and Dispersion, Skewness, Kurtosis, Frequency Table, Graphs & Charts, Correlation & Simple Linear Regression.

Probability and Distributions: Elements of Probability, Events, Conditional Probability and Independence, Bayes Theorem, Binomial, Poisson and Normal Distributions.

Coordinate Geometry: Straight line, Circle, Parabola, Ellipse and Hyperbola.

Elementary Complex Numbers: Complex numbers and De Moivre's theorem.

Analytical Reasoning: Logical Reasoning & Graphical Interpretation.