
SYLLABI-BOOK MAPPING TABLE

Business Mathematics

Syllabi

Mapping in Book

UNIT I

Theory of Sets: Meaning, elements; types, presentation and equality of sets. Union, intersection, compliment & difference of sets, Venn diagrams. Cartesian product of two sets. Applications of Set theory.

**Unit 1: Theory of Sets
(Pages: 3-36)**

UNIT II

Indices & Logarithms, Arithmetic, Geometric and Harmonic progressions and their business applications; Sum of squares and cubes of first natural numbers.

**Unit 2: Indices and Logarithms
(Pages: 37-91)**

UNIT III

Permutations, Combinations and Binomial Theorem (positive index).

**Unit 3: Permutations,
Combinations and
Binomial Theorem
(Pages: 93-118)**

UNIT IV

Matrices - Types, properties, addition, multiplication, transpose and inverse of matrix. Properties of determinants, solution of simultaneous Linear Equations. Differentiation of Standard Algebraic Functions; Business Applications of Matrices and Differentiation.

**Unit 4: Matrix Algebra
and Differentiation
(Pages: 119-233);
Unit 5: Integration
(Pages: 235-294)**
