

Course Code	Course Title	C	H	I	E	T
17U1KMC2	Business Mathematics	4	5	25	75	100

Unit I Ratios and Proportions **18 Hrs**

Theory of Indices and Surds- Logarithms.

Unit II Matrices and Determinants **18 Hrs**

Solving Equations using Crammers Rule and Matrix Inversion only - Permutations and Combinations - Progressions - Arithmetic and Geometric.

Unit III Set Theory **18 Hrs**

Theory of Equations- Linear and Simultaneous Equations – Quadratic Equations. Introduction to Boolean Algebra (Properties only).

Unit IV Calculus **18 Hrs**

Basic concepts of Differential and Integral Calculus- Applications of Standard Results- Simple application of Differentiation and Integration of Commerce and Economics.

Unit V Commercial Arithmetic **18 Hrs**

Interest and Annuities- Simple and Compound Interest- Rule 72 – EMI – Annuity- Future value- Present value- Sinking fund.

Text Book

1. C.K. Ranganath, C.S. Sampagiram and Y. Rajaram, *“Business Mathematics”*, Third Edition, 2014, Himalaya Publishing House, Mumbai.

Reference Books

1. Qazi Zameeruddin, Vijay K Khanna & S.K. Bhambri, *“Business Mathematics”*, Second Edition, 2015, Vikas Publishing House Pvt Ltd.
2. V. Sundaresan and S.D.Jeyaseelan, *“An Introduction to Business Mathematics”*, 2010, S.Chand (G/L) & Company Ltd.
3. D.C. Sanchetti & V.K. Kapoor, *“Business Mathematics”*, Eleventh Edition, 2014, Sulthan Chand & Sons.
4. P.R. Vittal, *“Business Mathematics & Statistics”*, 2012, Margham Publications, Chennai.