# QUANTITATIVE METHODS FOR BUSINESS - 

 I

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Short Description
BANGALORE UNIVERSITY QUANTITATIVE METHODS FOR BUSINESS - I

Description

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### 1.5 QUANTITATIVE METHODS FOR BUSINESS - I <br> OBJECTIVE

To provide basic knowledge of quantitative methods and their application to commercial situations and for
decision making in business.
Unit 1: NUMBER SYSTEM 04 Hrs
Introduction - Natural Numbers - Even Numbers - Odd Numbers - Integers - Prime
Numbers - Rational \&
Irrational numbers, Real Numbers, HCF \& LCM ( Simple problems )
Unit 2: THEORY OF EQUATIONS 12Hrs
Introduction - Meaning - Types of Equations - Simple, Linear and Simultaneous Equations (only two
variables) Eliminations and Substitution Method only. Quadratic Equation Factorization and Formula
Method ( $\mathrm{ax}^{2}+\mathrm{bx}+\mathrm{c}=0$ form only). Problems on Commercial Application.
Unit 3: PROGRESSIONS 12 Hrs
Introduction - Arithmetic Progression - Finding the ,nth term of an AP and Sum to nth term of AP. Insertion
of Arithmetic Means in given terms of AP and representation of 3 terms of AP. Geometric Progression -
Finding nth term of GP - Sum to „n?th Term of GP - Insertion of Geometric Means in given Geometric
Progression and also representation of 3 terms of GP.
Unit 4: MATRICES AND DETERMINANTS 14Hrs
Introduction, Meaning, types of matrices - operations of addition, subtraction, multiplication of two
matrices - problems, transpose of a square matrix. Determinant of a square matrix- minor of an element,
co-factor of an element of a determinant. adjoint of a square matrix, singular and nonsingular matrices -
inverse of a square matrix - Problems on linear equations in two variables using Cramer?s rule.
Unit 5: COMMERCIAL ARITHMETIC 14 Hrs
Simple interest, Compound interest including half yearly and quarterly calculations, annuities Percentages,
bills discounting, concepts of Ratios, duplicate-triplicate and sub-duplicate of a ratio. Proportions, third,
fourth and inverse proportion - problems.

## Details

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3. Courier india only
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