# C. U. SHAH UNIVERSITY - WADHWANCITY

**FACULTY OF MANAGEMENT STUDIES**
**BACHELOR OF BUSINESS ADMINISTRATION(BBA)**

**SEMESTER**I (One)                                             **CODE**4MS01BMM1

**Name of Subject**Business Mathematics

## Teaching & Evaluation Scheme

| Teaching Hours / Week | | | | Evaluation Scheme (MARKS) | | |
|---|---|---|---|---|---|---|
| **Th** | **Tu** | **P** | **Total** | **University** | **Internal** | **Total** |
| 04 | 0 | 0 | 04 | 70 | 30 | 100 |

### Objectives

- To develop skills in structuring and analyzing business problems using Business Mathematics.
- To develop aptitude and Mathematical thinking approach to business problems.
- To understand the effective use of computer software for resolution of Mathematical problems.

**Prerequisite**Basic Knowledge about calculation, basic idea about statistics

## Course outline

| Sr. No. | Course Contents | Number of Hours |
|---|---|---|
| 1 | Variables, Constants, Functions and graph of Functions, Definition ,Types of function, Related examples | 08 |
| 2 | Graphs for Linear, Quadratic Functions | 04 |
| 3 | Limit -  Meaning of ' x tends to a , Right hand and Left hand Limits, Some fundamental results on Limits, Rule to evaluate the Limit of a Function | 07 |
| 4 | ContinuityMeaning, Rules, Need, Continuity at a point, Continuity in an intervalProperties of Continuous Function. | 08 |
| 5 | Progression | 02 |
| 6 | Arithmetic Progression, Geometric Progression,Harmonic Progression | 08 |
| 7 | Relation between A.M., G.M. and H.M. | 03 |
| 8 | Permutations , Meaning of Permutations,  Permutations of n different things, Circular Permutations,  Permutations of things not all different  Restricted Permutations | 07 |
| 9 | Meaning of Combinations, Complementary Theorems , Restricted Combinations, Combinations of things not all different | 03 |

| 10 | Principles of Mathematical Induction and related examples | 05 |
|---|---|---|
| 11 | Introduction of Binomial Theorem,Position of TermsandSimple sums of Binomial Theorem | 05 |
| | **Total Hours** | 60 |

## Learning Outcomes

*TheoreticalOutcome*    Get the knowledge about different terms which is used in Business transaction.

*PracticalOutcome*    It is useful to solve the Business Problem

## Teaching & Learning Methodology

- Lectures and Discussions
- Assignments
- Presentations

## Books Recommended

1  **'Mathematics for Business'** – *Raghava Chary*

2  **'Business Mathematics'** by *V. K. Kapoor - Sultan Chand&Sons*, Delhi

3  **'Business Mathematics'**by*Bari* - New Literature Publishing Company, Mumbai

## E-Resources

1    http://math.about.com/od/businessmath/tp/businessmathtp.htm

2    http://www.fileguru.com/apps/business_mathematics_by_vk_kapoor

3    http://www.bridgeton.k12.nj.us/curriculum/pdfs/math_links.pdf