

GUJARAT UNIVERSITY
SYLLABUS FOR F.Y BBA
SEMESTER I

CORE COURSE – 107 BASIC MATHEMATICS

Introduction:

The student will understand the mathematical concepts and terminology involved in Linear Algebra, Function, Permutation and Combination. The course focuses on how to interpret and solve business-related word problems and to develop simple mathematical models from a business perspective.

Objective :

To create a better understanding of Mathematical concepts in solving business related problems. The course serves as a good foundation for further study in management, accounting ,marketing and finance.

Total Sessions: 40 sessions

Total Credits: 3 credits

Module I: 10 Sessions

Set theory

- Introduction
- Types of Sets
- Venn Diagrams
- Operations on Sets
- Cartesian Product of two Sets
- Applications

Module II: 10 Sessions

a. Function

- Definition
- Types of functions
- Some functions in Commerce and Economics
- Applications

b. Limit

- Introduction
- Definition and working rules of Limit
- Some Standard Limits

Module III: 10 Sessions

Permutations and Combinations

- Introduction
- Important notations, meaning
- Applications

Module IV: 10 Sessions

a. Co-ordinate Geometry

Introduction
Cartesian Co-ordinate system
Distance formula
Line and slope of a line
Different forms of equations of a
line Applications

b. Arithmetic and Geometric Progression

Assignment:

1. Assignment on set theory
2. Assignment on function and limit
3. Assignment on permutation and combination
4. Assignment on co-ordinate geometry and arithmetic & geometric progression

Seminar Topics:

1. Prepare a project on the application of function used in real life.
2. Use of permutation and combination in TRANSPORT SYSTEM.

Text Books:

1. Business Mathematics: Sancheti and Kapoor
2. Business Mathematics: Kashyap Trivedi and Chirag Trivedi

References:

1. Business Mathematics . (Second Edition) – Qazi Zameeruddin, Vijay K Khanna, SK Bhambri. (Vikas Publication)
 2. Business Mathematics –II – J. K. Singh , Deepti Rani. (Himalaya Publishing House)
- Mathematics for Management An Introduction – M Raghavachari (Tata Mc Graw Hill)