



SILVER OAK UNIVERSITY

Silver Oak Law College (019)

Programme Name: Five Years Integrated B.B.A.LL.B Programme

Subject Name: Business Mathematics

Subject Code: 1190275101

Semester: II

Prerequisite:

1. Nil

Objective:

1. To help the students develop understanding of the basic principles of mathematics.
2. To familiarize students with the application of mathematics to business problems.

Teaching Scheme:

Teaching Scheme				
L	T	P	Contact Hours	Credit
4	0	0	4	4

Content:

Unit No.	Contents	Teaching Hours	Weightage %
1	Set Theory 1.1 Concept of Set & Set Membership, Subset & Set Equality; Set Operations; 1.2 Fundamental Laws of Set Operation; Venn Diagram, Cartesian Product of two sets; 1.3 Special Topics on Sets - Partition, Power Set Business Application of Set Theory. 1.4 Permutations & Combinations	18	25%
2	Function & Limit 2.1 Meaning and Definition of Function 2.2 Different types of functions, Construction of Functions; Linear & Quadratic Functions; · Some Special Functions – Log Function; Exponential Function; Modulus Function · Graphical Presentation of Functions 2.3 Zeros of a Function 2.4 Functions used in Economics (Demand, Supply,	18	25%

	2.5 Revenue, Cost, Profit, Production, Average Cost & Average Revenue) 2.6 Application of Function to Business - Break-even Analysis Functions & Their Application		
3	Co-ordinate Geometry 3.1 Cartesian Co-ordinate System; General Equation of Straight Line; Standard Equation of Straight Line; 3.2 Distance Formula; Intercept & Slope of a Line; 3.3 Different Forms of Equations of a straight Line 3.4 Concept and properties of Perpendicular and Parallel Lines	18	25%
4	Progressions 4.1 Meaning of Sequence & Series; General Terms of Sequence; Sum of Series · Arithmetic Progression; Sum of a series, Arithmetic Mean 4.2 Geometric Progression; Sum of a series, Geometric Mean 4.3 Introduction to Harmonic Progression 4.4 Sum of the Finite & Infinite Progression & Applications.	18	25%

Course Outcome:

Sr. No.	CO statement	Unit No
CO-1	Apply mathematical concepts and principles to perform computations Apply mathematics to solve problems	I
CO-2	Create, use and analyze graphical representations of mathematical relationships	II
CO-3	Communicate mathematical knowledge and understanding Apply technology tools to solve problems	III
CO-4	Perform abstract mathematical reasoning Learn independently	IV

Teaching & Learning Methodology: -

The various methods or tools follows by the faculties to teach the above subject are:

1. Black Board
2. Presentations
3. Role Plays
4. Case Study Analysis
5. Practical /Current Scenario Discussion

Books Recommended: - (minimum 3 books)

1. Padmalochan Hazarika, Publishers: S.Chand A Text Book of Business Mathematics: Latest edition .

2. D.C. Sancheti and V.K. Kapoor, Publishers: Sultan Chand Business Mathematics: Latest edition.
3. J.K. Sharma Theory and Application, Publishers: Ane Books Business Mathematics: Latest edition
- 4 . J.K. Singh, Business Mathematics Himalaya Publishing House Latest edition:5M. Raghavachari, Tata Mc GrawHill Mathematics for Management: Latest edition