

Satyug Darshan Institute of Engineering and Technology	
Lesson Plan / Teaching Plan / Lecture Plan with Progress : BBA DM – 1st Semester : 2025-26	
Course Name (Code): Business Mathematics (MTU-115-V)	Faculty: Ms. Bhavya Batra
Topics / lectures are arranged in sequence - same - as to be taught in the class. Maintain data related to "Date" in its hard copy.	

S. No .	Lecture No	Topic Description	Teaching Pedagogy	Reference Material	Remarks, if any
1	1	Meaning, Elements of sets and Presentation of Sets	Board	T1, T2, T3	
2	2	Questions related to sets	Board	T1, T2, T3	
3	3	Types of sets	Board	T1, T2, T3	
4	4	Practice Questions	Board	T1, T2, T3	
5	5	Union and Intersection of sets	Board	T1, T2, T3	
6	6	Complement and difference of sets	Board	T1, T2, T3	
7	7	Questions on Operations on sets	Board	T1, T2, T3	
8	8	Venn diagrams	Board	T1, T2, T3	
9	9	Applications of Set theory	Board	T1, T2, T3	
10	10	Practice Questions	Board	T1, T2, T3	
11	11	Cartesian Product of two sets	Board	T1, T2, T3	
12	12	Algebra of Sets	Board	T1, T2, T3	
13	13	Revision	Board	T1, T2, T3	
14	40	Indices	Board	T1, T2, T3	
15	41	Practice Questions	Board	T1, T2, T3	
16	42	Logarithms	Board	T1, T2, T3	
17	43	Practice Questions	Board	T1, T2, T3	
18	34	Arithmetic progressions	Board	T1, T2, T3	
19	35	Problems based on Arithmetic progression	Board	T1, T2, T3	
20	36	Geometric Progression	Board	T1, T2, T3	
21	37	Problems based on Geometric progression	Board	T1, T2, T3	
22	38	Business application of Arithmetic and Geometric Progression	Board	T1, T2, T3	
23	39	Sum of first n natural numbers, Sum of squares of first n natural numbers, Sum of cubes of first n natural numbers	Board	T1, T2, T3	
24	52	Permutations	Board	T1, T2, T3	
25	53	Combinations	Board	T1, T2, T3	
26	54	Practice Questions	Board	T1, T2, T3	
27	44	Binomial Theorem	Board	T1, T2, T3	
28	45	Questions based on Binomial Theorem	Board	T1, T2, T3	
29	46	Quadratic equations	Board	T1, T2, T3	
30	47	Questions based on Quadratic Equations	Board	T1, T2, T3	
31	14	Matrices and its Types.	Board	T1, T2, T3	
32	15	Properties of Matrices	Board	T1, T2, T3	
33	16	Addition and Transpose of Matrices	Board	T1, T2, T3	
34	17	Multiplication of Matrices	Board	T1, T2, T3	
35	18	Inverse of Matrices	Board	T1, T2, T3	
36	19	Questions based on Matrices	Board	T1, T2, T3	

37	20	Determinant and its Properties.	Board	T1, T2, T3	
38	21	Questions based on Determinants	Board	T1, T2, T3	
39	22	Solution of Simultaneous Linear Equations - Cramer's Rule	Board	T1, T2, T3	
40	23	Practice Questions	Board	T1, T2, T3	
41	24	Symmetric and Skew Symmetric Matrix	Board	T1, T2, T3	
42	25	Practice Questions	Board	T1, T2, T3	
43	26	Minor, Cofactor and Adjoint	Board	T1, T2, T3	
44	27	Inverse of a Matrix	Board	T1, T2, T3	
45	28	Practice Questions	Board	T1, T2, T3	
46	29	Solution of Simultaneous Linear Equations - Matrix Method	Board	T1, T2, T3	
47	30	Practice Questions	Board	T1, T2, T3	
48	31	Gauss Jordan Elimination Method	Board	T1, T2, T3	
49	32	Practice Questions	Board	T1, T2, T3	
50	33	Business application of matrices	Board	T1, T2, T3	
51	48	Differentiation of standard algebraic functions	Board	T1, T2, T3	
52	49	Practice Questions	Board	T1, T2, T3	
53	50	Integration of standard algebraic functions	Board	T1, T2, T3	
54	51	Revision	Board		

Reference Books

Sr.No.	Description
1	Zameer Udin, Qazi, Khanna V.K. & Bhambri, S.K., Business Mathematics, Vikas Publishing House Pvt. Ltd, New Delhi.
2	Dr. Yogesh Kumar Goyal, Business Mathematics, JBS Publishers, Faridabad.
3	Dr. Padmalochan Hazarika, A Textbook of Business Mathematics, S.Chand