

**Advanced institute of Technology & Management, Palwal****Subject Details and Lecture Plan  
(Teacher's copy)**

Subject Title: <b>BUSINESS MATHEMATICS</b>	Subject Code: <b>BBA/GNL/105</b>	
Total Contact Hours: L + T + P = 50 + 0 + 0	Duration of Exam: 03 Hrs	
Total Internal Assessment Marks: 25	End Semester Exam. Marks: 75	Total Marks = 100
Date: 21/7/2025		
Date:		

**Pre-requisites:** Basic fundamentals of ANALOG ELECTRONICS.

**Outcomes:** The Student will learn the

1. Understand the basic concepts of business mathematics.
2. Develop basic skills for quantitative application in business situations.
3. Interpret and solve real -life business problems.
4. Understand matrices and other various mathematical concepts useful in daily life.

**Materials and Resources Required: .**

**Reference Books:**

1. Sancheti, D.C., Malhotra, A.M. & Kapoor V.K., Business Mathematics, Sultan Chand & Sons, New Delhi.
2. Zameerudin, Qazi, Khanna V.K. & Bhambri, S.K., Business Mathematics, Vikas Publishing House Pvt. Ltd, New Delhi.
- Reddy, R. Jaya Prakash, Y. Mallikarjuna Reddy, A Textbook of Business Mathematics, Ashish Publishing

**STUDENT ASSESSMENT:**

There will be two tests of 90 minutes duration of 24 marks each. The average of best two will be considered as Final Internal Assessment marks. There will not be any further test. However, the concerned faculty member's decision is final as regards assignment of Internal Assessment is concerned.

**Assessment Plan:**

Internal Theory Marks Distribution			
Mid-Term Test	Attendance	Assignment	Total
10 marks	10 marks	5 marks	25 marks

**Mid-Term Exams**

Mid-term Exams	Examination Date
1 <sup>st</sup> Mid-term Exams	24-9-2025 to 26-9-2025
2 <sup>nd</sup> Mid-term Exams	17-11-2025 to 19-11-2025

**FINAL EXAMINATION:**

There will be one final examination of 3 hours duration at the end of the semester conducted by YMCA containing questions from the whole syllabus.

**Scheme of End Semester Examination:** Max. Marks: 75

Date: Faculty Member  
(Sign. & Name)

HOD  
(Signature & Name)

**Lecture Plan**

**N.B. TWO AUDIO-VISUAL PRESENTATIONS PER WEEK.**

Lecture No.	Unit / Chapter No.	Topic	Scheduled Date	Actual Date	Remarks & sign. of HOD	Teaching Aids
1.	<b>UNIT I</b> Theory of Sets	Meaning, elements	21/7/2025			
2.		types, presentation	22/7/2025			
3.		equality of sets; union	23/7/2025			
4.		equality of sets , intersection	28/7/2025			

5.		compliment& difference of sets	29/7/2025			
6		Venn diagrams	30/7/2025			
7.		Cartesian product of two sets	31/7/2025			
8		Applications of set theory.	1/8/2025			
		Applications of set theory.	4/8/2025			
		PROBLEMS	5/8/2025			
		PROBLEMS	6/8/2025			
	<b>UNITII</b>	Indices	7/8/2025			
		logarithms	8/8/2025			
		arithmetic progressions	11/8/2025			
		geometric progressions	12/8/2025			
		PROBLEMS	13/8/2025			
		PROBLEMS	14/8/2025			
		geometric progressions and their business applications	18/8/2025			
		sum of first n natural numbers	19/8/2025			
		sum of squares	20/8/2025			
		sum of cubes of first n natural numbers	21/8/2025			
		PROBLEMS	22/8/2025			
		PROBLEMS	25/8/2025			
		PROBLEMS	26/8/2025			
25	<b>UNITIII</b>	Permutations.	27/8/2025			
26		combinations	28/8/2025			
27		combinations	29/8/2025			

28		PROBLEMS	1/9/2025			
29		PROBLEMS	2/9/2025			
30		Binomial theorem	3/9/2025			
31		Binomial theorem with positive index	4/9/2025			
32		Quadratic equations	5/9/2025			
33		Quadratic equations	5/9/2025			
34		Permutations	8/9/2025			
35		PROBLEMS	9/9/2025			
36		PROBLEMS	10/9/2025			
37		PROBLEMS	11/9/2025			
38	<b>UNIT IV</b>	Matrices	12/9/2025			
39		Matrices	15/9/2025			
40		Types of matrices properties	17/9/2025			
41		Properties of matrices	18/9/2025			
42		Revision of sessional exam	19/9/2025			
43		Revision of sessional exam	23/9/2025			
44		Addition and scalar multiplication of matrices	29/9/2025			
45		Transpose and adjoint of matrices	30/9/2025			
46		differentiation	3/10/2025			
47		differentiation	6/10/2025			
48		inverse of matrix	8/10/2025			
49		properties of determinants	9/10/2025			
50		solution of simultaneous Linear Equations	13/10/2025			
51		integration of standard algebraic functions	14/10/2025			
52		integration of standard algebraic functions	15/10/2025			

53		PROBLEMS	16/10/2025			
54		PROBLEMS	27/10/2025			
55		Business applications of , differentiation,	28/10/2025			
56		Business applications of , differentiation,	30/10/2025			
57		Business applications of Integration	31/10/2025			
58		Business applications of Integration	3/11/2025			
59		Revision & Class test	4/11/2025 to 14/11/2025			

### Syllabus Coverage Report

Syllabus coverage before MST-1	Satisfactory/ Lagging by ____ lectures.
Syllabus coverage before MST-2	
Syllabus coverage before MST-3	
HoD Remarks	

Syllabus coverage before MST-2

Satisfactory/ Lagging by \_\_\_\_ lectures.

HoD Remarks

### General Comments of the Class Teacher about the suitability of Lecture Plan

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Signature of Teacher & Date

Signature of HOD & Date