



(Shri Ramkrishna Seva Mandal's)
ANAND COMMERCE COLLEGE

An Autonomous College (2025-26 to 2034-35)

(Affiliated to Sardar Patel University)

NAAC ACCREDITED 'A' GRADE (3.04 CGPA)

ISO 9001:2015

Syllabus as per NEP 2020 with effect from the Academic Year 2025-26



Bachelor of Business Administration
Information System Management
BBA (ISM) Semester – I

Course Code	UB01IDBBI01	Title of the Course	Business Statistics I
Total Credit of Course	04	Hours Per Week	04

Course Objectives:	<ol style="list-style-type: none">1. To develop an understanding of fundamental concepts of sets and determinants and their applications in solving linear equations2. To build proficiency in matrix operations and utilize them for modeling and solving real-world problems across various domains.3. To design and implement effective data collection strategies to gather accurate business information, supporting data-driven insights and strategic planning.4. Analyze and interpret these measures to draw meaningful conclusions in various statistical contexts.5. To analyze and measure the variability in datasets using statistical tools like range, variance, and standard deviation to interpret data distribution
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Course Content		
Unit	Description	Weightage* (%)
1.	Set Theory and Determinant: <ul style="list-style-type: none">• Definition of sets• Types of sets• Union and Intersection of sets• Difference of two sets• De'morgan law and Cartesian product of two sets• Determinant: Meaning of 2×2 Determinant• Expansion of third order determinant properties of determinant• Cramer's method for solving system of linear equation (For two variable only)	20%
2.	Matrix: <ul style="list-style-type: none">• Definition of matrix• Types of matrices• Addition and Subtraction of matrices• Scaler product and Multiplication of matrices	20%

	<ul style="list-style-type: none"> • Solution of linear equations for two and three variable 	
3.	Collection of Data: <ul style="list-style-type: none"> • Definition of Statistics • Concept of Primary and Secondary data. • Methods of collecting Primary data: Direct Investigation, indirect investigation, information through local agency, mailed questionnaire, Framing of questionnaire, • Source of secondary data. • Concept of classification types and Importance of Classification example of classification. 	20%
4.	Measures of Central Tendency: <ul style="list-style-type: none"> • Meaning of Measure of central Tendency • Characteristics of Ideal measures of central Tendency • Definition and calculation of mean, Median, Mode, Quartiles Deciles and Percentiles, Combined Mean 	20%
5.	Measures of Dispersion: <ul style="list-style-type: none"> • Measures of Dispersion Meaning • Range, Quartiles Deviation, Standard Deviation, • Variance, Coefficient of Variance (CV) 	20%

Teaching-Learning Methodology	Lecture-cum-discussion, Group Discussion, Presentations, Seminars, Tutorials, Research Exercises
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Internal and / or External Examination Evaluation

Sr. No.	Details of the Evaluation / Exam Pattern	50 Marks (%)	25 Marks (%)
1	Class Test (at least one)	15 (30%)	10 (40%)
2	Quiz (at least one)	15 (30%)	05 (20%)
3	Active Learning	05 (10%)	----
4	Home Assignment	05 (10%)	05 (20%)
5	Class Assignment	05 (10%)	----
6	Attendance	05 (10%)	05 (20%)
Total Internal (%)		50 (100%)	25 (100%)
College External Examination (%)		50 (100%)	25 (100%)

Course Outcomes: Having completed this course, the learners will be able to

1.	Identify and operate with various types of sets and apply set operations and Venn diagrams to solve problems in commerce.
2.	Evaluate 2×2 and 3×3 determinants and use Cramer's method to solve systems of equations in two variables.
3.	Perform matrix operations and apply matrix methods to solve linear systems relevant to business scenarios.
4.	Apply statistical techniques like mean, median, and mode to summarize and interpret data distributions effectively
5.	Evaluate the variability of datasets using statistical measures to interpret and communicate data insights clearly.

Suggested References	
Sr. No.	References
1	Sancheti & Kapoor: Statistics Theory, Methods and Applications, Sultan Chand & Sons, New-Delhi.
2	Kapoor, V. K.: Business Mathematics, Sultan Chand and Sons, New Delhi.
3	Soni, R. S.: Business Mathematics, Pitamber Publishing House.
4	Trivedi and Trivedi: Business Mathematics, Pearson India Limited. New Delhi.
5	Dr. K R Kachot: Business Mathematics, Mahajan Publication House.
6	S C Gupta: Fundamentals of Statistics, Himalaya Publishing House
7	Prof. H R Vyas and Others, Business Statistics, B S Shah Prakashan
8	R P Hooda: Statistics for Business and Economics, Mac Millian Publication, New Delhi

Digital resources to be used if available as reference material

Digital Resources

<https://youtu.be/1wsF9GpGd00>

<https://atozmath.com/default.aspx>

<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=ZLCHeZEhCZ8yCri36nSF3A==>



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