



(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 Commerce
B COM Semester – I

Course Code	UC01MDCOM01	Title of the Course	Descriptive Statistics I
Total Credit of Course	04	Hours Per Week	04

Course Objectives:	<ol style="list-style-type: none">To apply set theory concepts and determinant calculations to solve complex business problems and model relationships within data sets.To utilize matrix operations to organize, analyze, and manipulate business data, enabling efficient problem-solving and decision-making.To design and implement effective data collection strategies to gather accurate business information, supporting data-driven insights and strategic planning.Develop the skills to organize, visualize, and present data effectively using charts, graphs, and tables.Analyze and interpret these measures to draw meaningful conclusions in various statistical contexts.
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Course Content		
Unit	Description	Weightage* (%)
1.	Set Theory and Determinant: <ul style="list-style-type: none">Definition of setsTypes of setsUnion and Intersection of setsDifference of two setsDe'morgan law and Cartesian product of two setsDeterminant: Meaning of 2×2 DeterminantExpansion of third order determinant properties of determinantCramer's method for solving system of linear equation (For two variable only)	20%
2.	Matrix: <ul style="list-style-type: none">Definition of matrixTypes of matricesAddition and Subtraction of matricesScaler product and Multiplication of matricesSolution of linear equations for two and three variable	20%

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.	Presentation of Data <ul style="list-style-type: none"> • Tabulation: Different parts of Table, Type of Table _Simple and with simple examples. • Charts related to Qualitative data (without Frequency), Line Charts, Bar charts, Pie charts. • Charts related to Quantitative data (with frequency): Histogram, frequency polygon, Frequency Curve, Cumulative Frequency Curve. 	20%
5.	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%

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 learner will be able to

1.	Explore foundational concepts of sets and utilize determinants for solving linear equations.
2.	Master operations on matrices and apply them to model and solve complex problems in various business application.
3.	Learn to design effective data collection methods and gather reliable datasets for meaningful statistical analysis.
4.	Effectively organize and visually represent data using tables, charts, and graphs to enhance interpretation and communication.
5.	Apply statistical techniques like mean, median, and mode to summarize and interpret data distributions effectively

Suggested References:

Sr.No.	References
1.	Gupta, S. C. <i>Fundamentals of statistics</i> . Himalaya Publishing House.
2.	Kachot, K. R. <i>Business mathematics</i> . Mahajan Publication House.
3.	Kapoor, V. K. <i>Business mathematics</i> . Sultan Chand & Sons.
4.	Prof. Vyas, H. R., & Others. <i>Business statistics</i> . B. S. Shah Prakashan.
5.	Sancheti, D. C., & Kapoor, V. K. <i>Statistics: Theory, methods and applications</i> . Sultan Chand & Sons.
6.	Soni, R. S. <i>Business mathematics</i> . Pitamber Publishing House.
7.	Trivedi, M., & Trivedi, M. <i>Business mathematics</i> . Pearson India Limited.

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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Anand Commerce College



Academic Coordinator
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