

| GANPAT UNIVERSITY | | | | | | | | | |
|---|--|-------------|------------------|----|-------------------------------------|---------------------------------------|----|-----|-------|
| FACULTY OF MANAGEMENT STUDIES | | | | | | | | | |
| Programme | Bachelor of Business Administration | | | | Branch/Spec. | Fintech, AI and Blockchain Management | | | |
| Semester | I (Minor Course) | | | | Version | 1.0.0.0 | | | |
| Effective from Academic Year | 2026-27 | | | | Effective for the Batch admitted in | July 2026 | | | |
| Course Code | 1A04BAS | Course Name | | | Basic Statistics | | | | |
| Teaching Scheme | | | | | Examination Scheme (Marks) | | | | |
| (Per week) | Lecture (DT) | | Practical (Lab.) | | Total | | CE | SEE | Total |
| | L | TU | P | TW | | | | | |
| Credit | 4 | 0 | 0 | 0 | 4 | Theory | 50 | 50 | 100 |
| Hours | 4 | 0 | 0 | 0 | 60 | Practical | | | |
| Pre-requisites | | | | | | | | | |
| Course Outcomes | | | | | | | | | |
| On successful completion of the course, the students will be able to: | | | | | | | | | |
| CO1 | Familiar with the basic statistical tools: How to calculate and apply measures of central tendency and measures of dispersion grouped and ungrouped data cases. | | | | | | | | |
| CO2 | Understand about Probability Theory and its application in real business situation. | | | | | | | | |
| CO3 | Understand about Probability Distributions. | | | | | | | | |
| CO4 | Understand about Statistical Quality Control (SQC). | | | | | | | | |
| Theory Syllabus | | | | | | | | | |
| Unit | Content | | | | | | | | Hrs. |
| 1 | Introduction to statistical averages, Arithmetic Mean, Median, and Mode, Quartiles – Characteristics, Advantages and Limitations. Introduction to dispersion, Range, Coefficient of Range, Quartile Deviation, Coefficient of Quartile Deviation, Mean Deviation and Coefficient of Mean Deviation, Variance and Standard Deviation for various types of frequency distributions, Coefficient of Dispersion, and Coefficient of Variation. | | | | | | | | 15 |
| 2 | Overview of Probability, Random Experiments, Sample Space, Events, Complementary Events, Union and Intersection of Events, Exhaustive Events, Mutually Exclusive Events, Statistically Independent Events, Classical (Statistical) Definition of Probability, Axiomatic Approach to Probability, Addition Law of Probability, Multiplication Law of Probability, Fundamental Theorems of Probability, Conditional Probability, Random Variables, Discrete and Continuous Random Variables, Probability Distribution of Random Variables. | | | | | | | | 15 |
| 3 | Probability Distributions: Binomial Distribution: Introduction, Probability mass functions of Binomial distribution, Mean and Variance of Binomial distribution, Properties of Binomial Distribution, Uses of Binomial Distribution. Poisson Distribution: Introduction, Probability mass function of Poisson distribution, Mean and Variance of Poisson distribution, Properties of Poisson Distribution, Applications of Poisson Distribution. Normal Distribution. | | | | | | | | 15 |
| 4 | Sampling Distribution: Introduction to sampling and sampling distribution, random sampling, non-random sampling, random sampling, convince sampling, stratified sampling, sampling distribution, sample size and standard error. Statistical Quality Control (SQC): Concepts of Quality, Quality Control and Statistical Quality Control, Causes of Variation in Quality, Meaning, uses and advantages of SQC, Theory of Control Charts. | | | | | | | | 15 |
| Practical Content | | | | | | | | | |
| Practical, assignments and tutorials are based on above syllabus. | | | | | | | | | |
| Text Books | | | | | | | | | |

| | |
|-----------------|---|
| 1 | Statistics for Management by Richard I Levin, Dvid S. Rubin, Masood Husain Siddiqui, Sanjay Rastogi (Pearson) |
| Reference Books | |
| 1 | Essentials of Business Statistics Communicating with Numbers by Sanjay Jaggia, Alison Kelly (Tata McgraHill) |
| 2 | Statistics for Business and Economics by Richard Anderson, , Dennis Sweeney (Cengage) |
| 3 | Mathematical Statistics - Saxena and Kapoor. |
| 4 | Statistical Methods Gupta S P Sultan Chand & Sons, 2004. |
| 5 | Comprehensive Statistical Methods by P. N. Arora, Sumeet Arora & S. Arora . |
| 6 | Business Statistics by J. K. Sharma |