

GANPAT UNIVERSITY									
FACULTY OF MANAGEMENT STUDIES									
Programme	Bachelor of Business Administration				Branch/Spec.	Maritime 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

Mapping of COs with POs and PSOs:

Course Outcomes (COs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
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.	2	2	3	3	-	-	-	1	-	2	3	-	2
CO2 Understand about Probability Theory and its application in real business situation.	2	3	3	3	-	-	1	1	-	3	3	-	2
CO3 Understand about Probability Distributions.	2	2	3	3	-	-	-	1	-	2	3	-	2
CO4 Understand about Statistical Quality Control (SQC).	1	3	3	2	3	-	1	-	1	3	2	-	3