LORETO COLLEGE
TIME PLAN MARCH 2025-JUNE 2025
2nd Semester Topic-wise Time Plan
Paper: STAT-H-MC2-2-Th (Statistics Minor 1)
Descriptive Statistics II and Probability II (Theory)

Name of the teacher: Daita Lahiri
Initials: DL

Teaching Objective:
• To introduce fundamentals of probability theory and its importance.
• To help students learn basic concepts of random variables and its related properties.
• To introduce the various probability distributions and its applications.

Units	Hours Alloted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 3	25 Hours	**a)**Introduction to random variables. **b)**CDF, PMF, PDF **c)**Expectation and variance. **d)**Discrete distributions: uniform, binomial, poisson. **e)**Continuous distribution: normal.	**a)**Knowledge of Random variables. **b)**Understanding the concept of cdf, pdf and pmf of a probability distribution. **c)**Knowledge of expectation and variance. **d)**Study several distributions and their relativity to real life.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments

LORETO COLLEGE
TIME PLAN MARCH 2025-JUNE 2025
2ND Semester Topic-wise Time Plan
Paper: STAT-H-MC2-2-P (Statistics Minor 1)
Descriptive Statistics II and Probability II (Practical)

Name of the teacher: Daita Lahiri
Initials: DL

Teaching Objective:
To help students learn practical problem solving skill based on datasets arising from various real life scenarios.

Units	Hours Alloted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 3	*NA*	**a)** Practical on fitting of binomial and poisson under different conditions. **b)** Fitting of normal distribution (with parameters known and unknown) **c)** Application problems based on binomial, poisson and normal distribution. **d)** Problems on area property of normal.	**a)** Using the theoretical concepts to solve real-life problems. **b)** Grow practical problem skills.	Demonstration of Problem solving	Practical Problem solving and Assignments

LORETO COLLEGE
TIMEPLAN-March 2025- June 2025

2ND SEMESTER TOPIC WISE TIME PLAN PAPER:
STAT-H-MC2-2-Th/P
Descriptive Statistics II & Probability II (Theory)

Name of the teacher: Shabnam Dutta
Initials: SD

Teaching Objective:
1/ To help students to understand correct usage and interpretation of different measures of descriptive Statistics while handling multivariate real life data.

Units	*Hours Allotted*	*Topics (as per curriculum)*	*Learning Outcomes*	*Teaching Method*	*Assessment*
Unit 1	15 hours	1/Bivariate data, Scatter plot, correlation, Regression (Linear, exponential, polynomial), correlation ratio, intraclass correlation Rank Correlation-Spearman, Kendal's tau.	1/ Knowledge on difference between application field of different measures. Relation and comparison between the measures. 2/ Goodness of fit for curve fittings.	1/Interactive lecture 2/ Real life Application	1/ Problem solving 2/ Class performance 3/ Assignment and Class tests.
Unit 2	5 hours	1/ Analysis of categorical data-contingency table, independence.	1/ Understanding difference of approaches, between dealing with categorical and metric data, while finding an index to measure same characteristics. 2/ To be able to use concepts in diverse everyday situations for decision making.	1/Interactive lecture 2/ Problem Solving 3/ Real life Application	1/ Problem solving 2/ Class performance 3/ Assignment and Class tests.

LORETO COLLEGE
TIMEPLAN-March 2025-June 2025

2ND SEMESTER TOPIC WISE TIME PLAN PAPER:
STAT-H-MC2-3-Th/P
Descriptive Statistics II & Probability II (Practical)

Name of the teacher: Shabnam Dutta
Initials: SD

Teaching Objective:
1/ To help students to properly apply the correct descriptive measures and concepts for diverse real-life data in hand and correctly interpret the results according to the data.

Units	*Hours Allotted*	*Topics (as per curriculum)*	*Learning Outcomes*	*Teaching Method*	*Assessment*
Unit 1	NA	Problems based on bivariate data and rank correlation.	Be properly able to use theoretical concepts in practical data and interpret the results according to varying type of data in hand.	1/Demonstration of problem solving	1/ Practical Problem solving 2/ Assignment
Unit 2	NA	1/ Problems based on categorical data	1/ To be able to use results and concepts in diverse everyday situations for decision making.	1/Demonstration of problem solving	1/ Practical Problem solving 2/ Assignment