LORETO COLLEGE
TIME PLAN AUGUST 2024-DECEMBER 2024

1ST Semester Topic-wise Time Plan
Paper: STAT-H-MC1-1-Th
Descriptive Statistics I and Probability I (Theory)

Name of the teacher: Daita Lahiri
Initials: DL

Teaching Objective:
• To introduce concept of Statistics, scales of measurement, presentation of different type of data.
• To teach several measures of central tendency, dispersion and their interpretations.
• To introduce knowledge of moments, skewness and kurtosis.

Units	Hours Alloted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 1	10 Hours	**a)**Introduction to Statistics and its related concepts. **b)**Different types of data **c)**Scales of measurement **d)**Presentation of data **e)**Frequency distribution **f)**Stem and leaf display	**a)**Knowledge of Statistics and several related concepts **b)**Understanding types of data and how to handle data **c)**Knowledge of tabular and diagrammatic presentation of data	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments
Unit 2	12 Hours	**a)**Measures of central tendency. **b)**Measures of dispersion **c)**Moments, skewness, kurtosis	**a)**Understanding the measures of central tendency and dispersion **b)**Knowledge of skewness, kurtosis, moments.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments

LORETO COLLEGE
TIME PLAN AUGUST 2024-DECEMBER 2024

1st Semester Topic-wise Time Plan
Paper: STAT-H-MC1-1-P
Descriptive Statistics I and Probability I (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 1	*NA*	**a)** Practical on diagrammatic representation of data. **b)** Problems on frequency distribution c)stem and leaf display.	**a)**Using the theoretical concepts to solve real-life problems. **b)**Grow practical problem skills.	Demonstration of Problem solving	Practical Problem solving and Assignments
Unit 2	*NA*	**a)** Practical on measures of central tendency, dispersion,. b)Problem on combined mean and variance, coefficient of variation. c)Problem on moments, skewness, kurtosis.	Gain the knowledge of understanding the data structure and have an introductory idea to analysis of data.	Demonstration of Problem solving	Practical Problem solving and Assignments

LORETO COLLEGE
TIME PLAN -AUGUST 2024- DECEMBER 2024

1ST SEMESTER TOPIC WISE TIME PLAN
PAPER: STAT-H-MC1-1-Th
Descriptive Statistics I & Probability I (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 real life data.
2/ To learn different approaches to probability theory to fulfil the main objective of Statistics- "Making decision at the face of uncertainty".

Units	*Hours Allotted*	*Topics (as per curriculum)*	*Learning Outcomes*	*Teaching Method*	*Assessment*
Unit 2	3 hours	1/Quantiles and Measures based on them. 2/Box plot, outliers.	1/ Knowledge on difference between moment and quantile measures. 2/ Visualization of data in hand using quantiles and dealing with outliers.	1/Interactive lecture 2/ Problem Solving 3/ Real life Application	1/ Problem solving 2/ Assignment and Class tests.
Unit 3	20 hours	1/ Random Experiment, Event and event algebra 2/ Definitions of probability (Frequentist, Classical, Axiomatic) 3/ Conditional Probability, Theorems of Compound and Total probability, Bayes' Theorem.	1/ Understanding different approaches along with their merits and drawbacks for working with probability. 2/ To be able to use theorems and concepts in diverse everyday situations for decision making.	1/Interactive lecture 2/ Problem Solving 3/ Real life Application	

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1ST SEMESTER TOPIC WISE TIME PLAN
PAPER: STAT-H-MC1-1-P
Descriptive Statistics I & Probability I (Practical)

Name of the teacher: Shabnam Dutta
Initials: SD

Teaching Objective:
1/ To help students to properly apply the correct descriptive measures and probability 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 2	NA	Problems related to quantiles and measures based on them and construction of Box-Plot.	Be properly able to use theoretical concepts in practical data and interpret the results according to data in hand.	1/Demonstration of problem solving	1/ Practical Problem solving 2/ Assignment
Unit 3	NA	1/ Application of problems based on classical definition of Probability 2/ Application of problems based on Bayes' Theorem	1/ To be able to use theorems and concepts in diverse everyday situations for decision making.	1/Demonstration of problem solving	1/ Practical Problem solving 2/ Assignment