

LORETO COLLEGE
TIME PLAN MARCH 2023-JULY 2023

2nd Semester Topic-wise Time Plan
Paper: STS-G-CC-2-2-TH
Elementary Probability 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 properties.
- To introduce the various probability distributions and its applications.

Units	Hours Allotted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 1	20 Hours	a) Introduction to Probability and different definitions of probability. b) Conditional probability c) Total probability. d) Bayes' theorem and its applications.	a) Knowledge of probability theory and several related concepts b) Understanding the different laws of probability c) Knowledge of Bayes' theorem.	a) Interactive-Lecture b) Problem-solving c) Real life application	Problem solving and Assignments
Unit 3	20 Hours	a) Standard probability distributions (discrete and continuous). b) Weak law of large numbers. c) Lindeberg-Levy Central Limit Theorem(C.L.T)	a) Understanding the concept of probability distributions and their applications. b) Knowledge of WLLN and CLT.	a) Interactive-Lecture b) Problem-solving c) Real life application	Problem solving and Assignments

LORETO COLLEGE
TIME PLAN MARCH 2023-JULY 2023

2nd Semester Topic-wise Time Plan
Paper: STS-G-CC-2-2-P
Elementary Probability Theory Lab

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 Allotted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 1	NA	a) Practical on fitting of binomial and poisson. b) Application problems based on binomial, poisson and normal distribution. c) Fitting of normal distribution (with parameters known and unknown)	a) Using the theoretical concepts to solve real-life problems. b) Grow practical problem skills.	Demonstration of Problem solving	Practical Problem solving and Assignments

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TIME PLAN MARCH 2023-JULY 2023

2nd Semester Topic-wise Time Plan
Paper: STS-G-CC-2-2-TH
Elementary Probability Theory

Name of the teacher: Shreemoyee Chakraborty

Initials: SC

Teaching Objective:

- To help students learn basic concepts of random variables and its properties.
- To introduce the various probability distributions and its applications.

Units	Hours Allotted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 2	15 Hours	a) Introduction to Random variables (Discrete and Continuous). b) P.m.f, p.d.f, c.d.f c) Illustrations and properties of random variables. d) Expectation, variance, moments.	a) Knowledge of discrete and continuous random variable. b) P.m.f, p.d.f, c.d.f knowledge. c) Understanding properties of random variables and concept of mean and moments.	a) Interactive-Lecture b) Problem-solving c) Real life application	Problem solving and Assignments
Unit 3	5 Hours	a) Standard probability distributions (discrete and continuous).	a) Understanding the concept of several probability distributions and their applications in real life.	a) Interactive-Lecture b) Problem-solving c) Real life application	Problem solving and Assignments

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Paper: STS-G-CC-2-2-P
Elementary Probability Theory Lab

Name of the teacher: Shreemoyee Chakraborty

Initials: SC

Teaching Objective:

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

Units	Hours Allotted	Topics (as per curriculum)	Learning outcomes (Output)	Teaching method	Assessment
Unit 1	NA	a) Practical on fitting of Binomial, Poisson and Normal. b) Application problems based on binomial, poisson and normal distribution.	a) Using the theoretical concepts to solve real-life problems. b) Grow practical problem skills.	Demonstration of Problem solving	Practical Problem solving and Assignments