LORETO COLLEGE
TIME PLAN FEBRUARY 2023-JUNE 2023

4th Semester Topic-wise Time Plan
Paper: STS-G-CC-4-4-TH
Applications of Statistics

Name of the teacher: Daita Lahiri
Initials: DL

Teaching Objective:
• To introduce fundamentals of statistical sampling theory and need for it in today's world.
• To help students learn basic concepts of index numbers and demographic methods.
• To introduce the applications of Statistics and its requirement in several real-life aspects.

Units	**Hours Allotted**	**Topics (as per curriculum)**	**Learning outcomes (Output)**	**Teaching method**	**Assessment**
Unit 1	20 Hours	**a)**Introduction to Population, sample and sampling theory. **b)**Types of sampling **c)**Simple random sampling **d)**Stratified random sampling.	**a)**Knowledge of sampling theory and several related concepts **b)**Understanding the different sampling techniques and estimating the parameters involved.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments
Unit 2	10 Hours	**a)**Index numbers **b)**Construction of index numbers **c)**Uses and limitations of index number **d)**Tests for index numbers	**a)**Understanding the concept of index numbers and their importance. **b)**To be able to construct index number by several methods.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments
Unit 3	10 Hours	**a)**Demographic Methods **b)**Measurement of mortality.	**a)**Get a clear idea about several demographic methods and gaining the knowledge of measuring mortality.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments

LORETO COLLEGE
TIME PLAN FEBRUARY 2023-JUNE 2023

4th Semester Topic-wise Time Plan
Paper: STS-G-CC-4-4-P
Applications of Statistics 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 Simple random sampling (SRSWR and SRSWOR) **b)** Construction of price and quantity index numbers. **c)** Construction of Consumer and wholesale index numbers.	**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
TIME PLAN FEBRUARY 2023-JUNE 2023

4th Semester Topic-wise Time Plan
Paper: STS-G-CC-4-4-TH
Applications of Statistics

Name of the teacher: Shreemoyee Chakraborty.
Initials: SC

Teaching Objective:
• To introduce fundamentals of economic time series and its need in today's world.
• To help students learn basic concepts of economic time series and demographic methods.
• To introduce the applications of Statistics and its requirement in several real-life aspects.

Units	**Hours Allotted**	**Topics (as per curriculum)**	**Learning outcomes (Output)**	**Teaching method**	**Assessment**
Unit 2	10 Hours	**a)**Introduction to economic time series. **b)**Additive and multiplicative models. **c)**Measurement of trend. **d)**Moving average method.	**a)**Knowledge of economic time series and several related concepts **b)**Understanding the different methods to measure the trend. **c)**Learning moving average.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments
Unit 3	10 Hours	**a)**Knowledge of life tables. **b)**Measurement of fertility and reproduction rates. **c)**Measurement of population growth.	**a)**Understanding life tables and its uses. **b)**Understanding the measurement of fertility and reproduction rates, and population growth.	a)Interactive-Lecture b)Problem-solving c)Real life application	Problem solving and Assignments

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TIME PLAN FEBRUARY 2023-JUNE 2023

4th Semester Topic-wise Time Plan
Paper: STS-G-CC-4-4-P
Applications of Statistics 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)** Measurement of trend in time series. **b)** Computation of measures of mortality. **c)** Completion of life table. **d)** Computation of measures of fertility and population growth.	**a)** Using the theoretical concepts to solve real-life problems. **b)** Grow practical problem skills.	Demonstration Of Problem solving	Practical Problem solving and Assignments