Lesson Plan for Statistics Minor Semester : III

| Paper : Descriptive StatisticsI& Probability I ( Theory ) | | | |
|---|---|---|---|
| Topic : Introduction to Statistics | Allotted Time (In Hours) | Number of Classes | Teacher's Name |
| **Statistic**<br>1. Definition and Scope<br>2. Concepts of Statistical Population and Sample | 10 | 1 | Anamitra Mandal & Debamalya Kar |
| **Data**<br>1. Quantitative and Qualitative<br>2. Cross-Sectional and Time-Series<br>3. Discrete and Continuous | | 2 | Anamitra Mandal & Debamalya Kar |
| **Scales of Measurement**<br>1. Nominal and Ordinal<br>2. Interval and Ratio | | 2 | Anamitra Mandal & Debamalya Kar |
| **Presentation of Data**<br>1. Tabular and Graphical<br>2. Frequency Distributions<br>3. Cumulative Frequency Distributions<br>4. Graphical Representations of Distributions<br>5. Stem and Leaf Displays | | 5 | Anamitra Mandal & Debamalya Kar |

Lesson Plan for Statistics Minor Semester : III

| Paper : Descriptive StatisticsI& Probability I ( Theory ) | | | |
|---|---|---|---|
| Topic : Descriptive Measures | Allotted Time (In Hours) | Number of Classes | Teacher's Name |
| **Measures of Central Tendency**<br>1. Mean<br>2. Median<br>3. Mode | 15 | 5 | Anamitra Mandal & Debamalya Kar |
| **Measures of Dispersion**<br>1. Range<br>2. Mean Deviation<br>3. Standard Deviation<br>4. Coefficient of Variation<br>5. Gini's Coefficient<br>6. Lorenz Curve<br>7. Quantiles and Measures<br>8. Box Plot and Outliers | | 5 | Anamitra Mandal & Debamalya Kar |
| **Measures of Moments**<br>1. Moments<br>2. Skewness<br>3. Kurtosis | | 5 | Anamitra Mandal & Debamalya Kar |

# Lesson Plan for Statistics Minor Semester : III

| Lesson Plan for Theory | | | |
|---|---|---|---|
| Topic : Probability | Allotted Time (In Hours) | Number of Classes | Teacher's Name |
| **Probability**<br><br>1. Introduction<br>2. Random Experiments<br>3. Sample Space<br>4. Events and Algebra of events<br>5. Definitions of Probability<br>6. Classical probability<br>7. Statistical probability<br>8. Axiomatic<br>9. Conditional Probability<br>10. Laws of Addition and multiplication<br>11. Independent events<br>12. Theorem of total probability<br>13. Bayes' theorem and its applications | 20 | 20 | Anamitra Mandal |