

Sylhet Cadet College
1st Term Syllabus- 2025
Department: Statistics
Class: XI

S/L	Chapter	Topics for lesson	Remarks
1	Five	<u>Moments, Skewness, and Kurtosis</u> Lesson-1. Types of Moments Lesson-2. Conversion to an from raw and central moments Lesson-3. Applications of moments Lesson-4. Skewness and its types Lesson-5. Measures of skewness Lesson-6. Kurtosis and its types Lesson-7. Five number summary and its uses Lesson-8. Presenting data with box and whisker plot Lesson-9. Determining first four moments from data Practical 1. Determining skewness and kurtosis and interpretation 2. Making box and whisker plot and five number summary and their analyses	
2	Six	<u>Correlation and Regression</u> Lesson-1. Bivariate data Lesson-2. Simple correlation and its nature Lesson-3. Measures of simple correlation Lesson-4. Scatter plot Lesson-5. Covariance and correlation Lesson-6. Properties, proof, and uses of correlation Lesson-7. Properties of correlation (origin, scale, range, r and b) Lesson-8. Regression and its coefficient Lesson-9. Determining regression line with formula and prediction Practical 1. Determination of correlation from ungrouped data 2. Simple ranked correlation 3. Drawing scatter plot 4. Determining regression line 5. Various functions	
3	Seven	<u>Time Series</u> Lesson - 1. Bivariate data Lesson - 2. Components of time series Lesson - 3. Techniques of fiding general trend Lesson - 4. Application of time series Practical 1. Determination of general trend and prediction	
4	Eight	<u>Published Statistics in Bangladesh</u> Lesson - 1. Sources of statistics in Bangladesh Lesson - 2. Classificaton of published Statistics in Bangladesh Lesson - 3. Limitations of published Statistics in Bangladesh and ways to improve Lesson - 4. Published information based on latest census	

Signature: Head of the Department