

POST GRADUATE GOVT. COLLEGE FOR GIRLS, SECTOR-11 CHANDIGARH
DEPARTMENT OF COMPUTER APPLICATIONS
WEEKLY TEACHING SCHEDULE (2019-20)

Teacher: Ms. Ritu Singh Kalsi

Class: BCA 1st Sem

Subject: Fundamentals of Mathematical Statistics

Date	Topic
29th - 3rd Aug	Basic Statistics: Types of Statistics, Different Statistical Techniques, Steps in Statistical Investigation, Uses and Limitations of statistics, Organization of data, Graphs of Grouped Frequency Distribution, Arithmetic Mean: Simple Arithmetic Mean, Methods of calculating Simple Arithmetic Mean, Arithmetic Mean in case of Individual Series,
5th - 10th Aug	Arithmetic Mean in Discrete series, Collection of Data: Sources of collecting primary and Secondary Data, Limitations of Secondary Data, Criteria of evaluating secondary data, Tabulation of Data, Parts of Table ,A.M. in Continuous series,
12th - 17th Aug	Weighted Arithmetic Mean, Combined Arithmetic Mean, Geometric Mean: Simple Geometric Mean , Methods of calculating Simple Geometric Mean, Geometric Mean in case of Individual Series,
19th - 24th Aug	Discrete series and continuous series, Weighted Geometric Mean, Combined Geometric Mean. Harmonic Mean: Simple Harmonic Mean ,Methods of calculating Simple Harmonic Mean,
26th - 31st Aug	Harmonic Mean in case of Individual, Discrete series and continuous series, Weighted Harmonic Mean, Combined Harmonic Mean and Test
2nd - 7th Sept	Median: Methods of Calculating Median in case of Individual, Discrete series and continuous series, Partition Value: Quartile, Quintiles
9th -14th Sept	Hexiles, Septiles, Octiles, Deciles, Percentiles, Mode: Methods of Calculating Mode in case of Individual Series, Discrete series and continuous series.
16th - 21st Sept	Range: Computation of Range, Inter Quartile Range, Computation of Inter Quartile Range, Percentile Range and Computation of Percentile Range. Mean Deviation, Computation of Mean Deviation, Standard Deviation, Calculation of Standard Deviation, Variance.
23rd -28th Sept	Calculation of Standard Deviation for individual Series, Discrete Series and Continuous Series, Coefficient of Standard Deviation and coefficient of variation, Combined Standard Deviation, Correcting incorrect Standard Deviation
30th - 5th Oct	Correlation Analysis : Correlation Analysis: Definition, Types of Correlation: Positive, Negative, Simple, Multiple, Partial, Total, Linear and Non-Linear. Need of Correlation Analysis, Correlation and Causation, Techniques for Measuring Correlation: Scatter Diagram Method, Graphic Method,
7th -12th Oct	Karl Pearson's Coefficient of Correlation: Correcting incorrect coefficient of correlation, calculating Karl Pearson's coefficient of correlation in case of grouped series, Probable Error,
14th - 19th Oct	Coefficient of Determination, Spearman's coefficient of Correlation (Rank correlation): Calculation of Correct Coefficient of rank correlation, Difference

	between Rank Coefficient and Karl Pearson's coefficient of coefficient, Coefficient of concurrent deviation.
21st - 26th Oct	MID SEMESTER EXAMS
28th - 2nd Nov	Regression Analysis (Linear Regression): Definition, Difference between Correlation and Regression, Types of Regression Analysis: Simple, Multiple, Partial, Total, Linear and Non-Linear, Objectives of Regression Analysis
4th - 9th Nov	Methods of obtaining regression analysis: Regression Lines, Regression Equations. Methods of obtaining regression equations: Normal Equations and Regression Coefficient, Properties of Regression Coefficient,
11th - 16th Nov	Standard Error of Estimate, Regression Coefficient in case of Grouped Data, Uses of Regression Analysis and Limitations of Regression Analysis.
18th - 23rd Nov	REVISION TESTS