

Semester Lecture Plan

Name of the college: Government College of Arts, Science & Commerce, Sanquelim Goa

Name of Faculty: Mr. Vishal R. Gaonkar

Subject: Geography

Paper code: GOG 302 – Statistical Methods in Geography

Program/Course: TYBA- Major

Division: A

Academic year: 2026- 2027

Semester: V

Total Lectures: 60

Course Objectives: The course provides an introduction to statistical methods in Geography. It equips students with statistical methods such as descriptive statistics, absolute and relative measures, and bivariate analysis.

Expected Course Outcomes: Understand the basic concepts, methods, types and formats of data.

2. Develop critical thinking skills to draw meaningful conclusions from descriptive statistics in a geographical context, contributing to informed decision making and interpretation of spatial data.

Student Learning Outcome: Develop effective communication skills to convey the results of dispersion analyses clearly, making use of appropriate visualizations and reports to enhance the interpretation of spatial data variability.

Month	Lectures From: To:		No. of lectures allotted	Topic, Subtopic to be covered	Exercise/Assign ment	ICT Tools	Reference books
June	19/06/2026	20/06/2026	01	Introduction to Statistical Methods in Geography	-	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
June	22/06/2026	27/06/2026	04	Significance of Statistical Methods in Research and Data Collection	Discussion	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor

June & July	29/06/2026	04/07/2026	04	Sources of Statistical Data Collection • Methods of Statistical Data Collection (Census vs Sampling)	Discussion	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
July	06/07/2026	11/07/2026	04	Classification and Tabulation of Data	Creation of tables	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
July	13/07/2026	18/07/2026	04	Graphical Representation of Data.	Graph work	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
July	20/07/2026	25/07/2026	04	Statistical Methods in Geography Descriptive Statistics: • Histogram and Frequency Distribution Curve	Graph work	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
July & August	27/07/2026	01/08/2026	04	Calculation of Arithmetic Mean, Median and Mode; their comparison	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
August	03/08/2026	08/08/2026	04	Calculation of Arithmetic Mean, Median and Mode; their comparison	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
August	10/08/2026	14/08/2026	04	Quartile and Deciles	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
August	17/08/2026	22/08/2026	04	Measures of Dispersion Range	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor

August	24/08/2026	29/08/2026	04	Quartile Deviation	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
August & September	31/08/2026	05/09/2026	04	• Mean Deviation and Standard Deviation	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
September	07/09/2026	12/09/2026	04	Relative Measures: • Coefficient of Variation	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
September	21/09/2026	26/09/2026	04	Bivariate Analysis: • Scatter Diagram	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
September & October	28/09/2026	03/10/2026	04	Correlation Analysis • Spearman's Rank Correlation	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
October	05/10/2026	10/10/2026	04	• Karl Pearson's Correlation Coefficient	Problem Solving	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor
October	12/10/2026	14/10/2026	01	Revision	Solving Questions	Overhead Projector/ Smart Board	Statistics- V.K. Kapoor