# Government College For Women, Mahendragarh, Haryana, 123029

Department of Geography

## Name of The Assistant Professor: Bharat Kumar Soni

Class: M.Sc. Pre.- Semester II
Session: 2023-24

# Subject Lesson Plan: 14 Weeks (Jan 15-Apr 30): Statistical Methods in Geography (GEOG204)

#### Week 1

Geography and statistics, significance of statistics in geographical studies. Nature and characteristic. Descriptive statistics: tabulation and graphical representation of data.

## Week 2

Measures of central tendency: mean, median and mode. Partitioned values: Quartiles and deciles.

## Week 3

Centrographic techniques- Mean center and Median center, Standard Distance. Measure of dispersion: Absolute measure; Range, quartile deviation.

#### Week 4

Mean deviation, standard deviation and Relative measure of dispersion: coefficient of variation. Measures of inequality: location quotient and Lorenz curve and Gini's coefficient.

## Week 5

Bivariate analysis: scatter diagram, correlation analysis, Spearman's rank correlation and Karl Pearson's correlation coefficient. Simple linear regression model: regression equations, construction of regression line, computation of residuals and mapping.

## Week 6

Test of significance: Chi-square test, student's t-test, F-test. Basis of multivariate analysis: correlation matrix partial and multiple correlations.

## Week 7-14

Repetition with Problem Solving, Tests & Assignments...

# Government College For Women, Mahendragarh, Haryana, 123029

Department of Geography

## Name of The Assistant Professor: Bharat Kumar Soni

Class: M.Sc. Final- Semester IV Session: 2023-24

Subject Lesson Plan: 14 Weeks (Jan 15-Apr 30): Research Methodology (GEOG401)

## Week 1

Meaning, Objectives, Types, and Significance of Research; Characteristics of research.

## Week 2

The Research Process- a detailed description of steps involved; problems encountered by researchers in India.

#### Week 3

Meaning of research problem; Selection of research problem; Need for defining a research problem; Techniques involved in defining a problem; Limitations of the research problem.

## Week 4

Definition, characteristics and types of Hypothesis.

## Week 5

Meaning, need, and features of research design; Important concepts relating to research design; Types of research design-exploratory, descriptive and experimental.

#### Week 6

Random sampling designs and Non-random sampling designs - merits and limitations.

## Week 7

Types of Data-Primary and Secondary; Sources of data;

## Week 8

Methods of collecting Primary Data - Observation method, Interview method, Questionnaire and Schedule; Difference between Questionnaire and Schedule.

## Week 09-14

Repetition with Problem Solving, Tests & Assignments...

# Government College For Women, Mahendragarh, Haryana, 123029

Department of Geography

## Name of The Assistant Professor: Bharat Kumar Soni

Class: B.A. II Year - Semester IV Session: 2023-24

Subject Lesson Plan: 14 Weeks (Jan 15-Apr 30): Human Geography (203)

## Week 1

Nature and scope of Human Geography, Branches of Human Geography, Approaches to the study of Human Geography.

#### Week 2

Division of Mankind: Spatial distribution of race and tribes of India; concept of menenvironment relation: A historical approach.

## Week 3

Human adaptation to the environment (i) Cold region – Eskimo (ii) Hot region – Bushman.

## Week 4

Human adaptation to the environment (iii) Plateau – Gonds (iv) Mountains – Gujjars.

## Week 5

Meaning, nature and components of resources; Classification of resources – renewal and non-renewable; biotic and aboitic, recyclable and non recyclable.

## Week 6

Distribution, utilization and conservation of biotic (flora and fauna) and aboitic (water, minerals and energy) resources.

## Week 7

Distribution and density of world population, population growth, fertility and mortality patterns.

## Week 8

Concept of over, under and optimum population; Population theories: Malthus, Ricardo and Marx.

## Week 09

Rural settlements: Meaning, classification and types. Urban settlements: Origin, classification and functions of towns.

## Week 10

Population pressure, resource use and environment degradation; sustainable development.

#### Week 11

Holi Vacations...

Week 13-14 Problem Solving, Tests & Assignments				
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