

Govt. College, Badli(Jhajjar)

M.A(Geography)1stSemester

Lesson Plan (2023-24)

Paper Code – 16GEO21C4

Statistical Methods in Geography

Faculty: Nisha Malik (Assistant Professor)

16 Aug- 07 Sep 2023:

Statistics, Geography and Statistics, Significance of Statistics in geographical studies Primary and Secondary Data, Levels of Data measurement- Nominal, Ordinal, Interval, Ratio, Group Discussion.

08Sep-20

Sep 2023:

Measures of Central Tendency: Arithmetic Mean and its geographical significance
Median, Mode and their geographical significance,
Centographic techniques: Mean Centre, Median Centre and Standard Distance
Problem solving and Test and Assignment

21Sep-31

Oct

2023:

Measures of Dispersion and Concentration: Mean Deviation, Standard Deviation,
Coefficient of Variation, Lorenz Curve and Gini's Coefficient, Location Quotient,
Scatter Diagram, Correlation by Spearman's Rank Difference and Karl Pearson's
Product Moment, Problem Solving and Seminar and test

1-10Nov

2023:

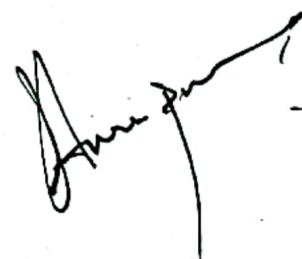
Significance testing of Correlation, Regression Analysis, Regression
Equations, Construction of Regression Line, Computation of residuals
mapping, Problem Solving, Assignment and test

11Nov

2023:

onwards

Revision and Test



Govt. College, Badli(Jhajjar)

M.A(Geography) 3rd Semester

Lesson Plan (2023-24)

Paper Code – 16GEO23C12

Remote Sensing and GIS

Faculty: Nisha Malik (Assistant Professor)

July 2023 (24th July onward): Introduction to syllabus, Course outcomes, Paper scheme and Marks Distribution.

August: Photogrammetry: History and development, Definition and meaning; Aerial photographs types, characteristics and Geometry, methods of determining scale; Ground coverage and overlapping; stereoscopes and stereoscopic vision; Photo mosaics-types and uses; Elements of image interpretation. Test and Assignment.

1Sep-25Sep: Remote Sensing technique- Meaning, basic principles/concepts, Remote sensing system and relevance in Geography; Electromagnetic radiations (EMR); Electromagnetic spectrum; interaction of EMR with atmosphere and Earth's surface features; Spectral reflectance; Remote sensing data; Basic principles of thermal and microwave remote sensing. Group Discussion

26Sep- 15Oct: Remote sensing platforms- types and characteristics; Satellite orbits- Near polar and Geostationary orbits; Sensors- types, specifications and resolutions; Various artificial satellites series; Remote sensing applications in land use/land cover, urban, water resources and environment studies; Remote sensing set up and programmes in India. Test and Assignment.

16Oct- 31Oct: Geographic Information System (GIS) – Meaning and Basic concepts; Components of GIS; Functions in GIS - data input, storage, maintenance, manipulation, analysis and output; GIS data - spatial and non-spatial data; Data formats - raster and vector; Data sources; Integration of Remote Sensing and GIS; Applications of GIS in Geographical studies.

1 Nov onwards: Revision, Full Paper Test and assigned topic/paper Presentation (PPT).

