

M.A./M.Sc. Geography
Fourth Semester
Skill -II (M4GEOG1-Skill-02) Statistical Analysis Using Software

UNIT I – Data

- a) Measurement levels
- b) Data types, database file formats
- c) Cases and variables
- d) Defining variables

UNIT II – Data Entry

- a) Data import
- b) Data entry
- c) Data editing
- d) Data manipulation

UNIT III – Data Distribution

- a) Preparation of line graphs
- b) Preparation of bar diagrams
- c) Preparation of histograms
- d) Preparation of pie diagrams

UNIT IV – Data Analysis: Computation of Fundamental Descriptive Statistics

- a) Mean, median, mode
- b) Measures of dispersion – standard deviation, Z-Scores, box plots
- c) Measures of symmetry – skewness
- d) Kurtosis

UNIT V – Analyzing Relationships

- a) Preparation of scatter plot
- b) Computation of correlation
- c) Computation of regression
- d) Output generation and export in different formats

**Exercises will be done in available statistical software – Microsoft Excel and SPSS*

Practical Exam Scheme

Distribution of marks: Total marks (100) = Internal marks (20) + External marks (80)

Internal marks- 20

3. One assignment based on statistical software using valid data – 10 marks.
4. Objective paper – 10 marks (10 objective questions)

External marks - 80

Candidates will be examined by an external examiner in consultation with the internal examiner.

The distribution of 80 marks will be as follow:

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|-----------------|---|----------|
| A. Test paper | - | 25 Marks |
| B. Lab exercise | - | 30 Marks |
| C. Record work | - | 15 Marks |
| D. Viva-voce | - | 10 Marks |