

**3115**

**B.A. Third Year Subject:**

**Geography Practical – Field Work and Surveying**

**Course Objectives:**

1. Enhance understanding about surveying techniques.
2. Enhance understanding of the concepts regarding plane table and prismatic compass survey.
3. Development of of research aptitude.

**Learning Outcome:**

This is a practical, hands-on course; when you have completed it, you will be able to:

1. Explain how to find the problem and do survey in the field.
2. Enhancement of report writing skill.

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## **Geography Practical – Field Work and Surveying**

### **UNIT – I**

1. Data Collection: Type and Sources of Data; Methods of Collection; Data Analysis: Qualitative Data Analysis; Quantitative Data Analysis; Data Representation Techniques.
2. Field Techniques – Merits, Demerits and Selection of the Appropriate Technique; Observation (Participant / Non Participant), Questionnaires (Open/ Closed / Structured / Non-Structured); Interview with Special Focus Group Discussions; Space Survey (Transects and Quadrants, Constructing a Sketch)
3. Designing the Field Report – Aims and Objectives, Methodology, Analysis, Interpretation and Writing the Report.

Note : - Each student will prepare an individual report based on primary and secondary data collected during field work. The size of report must be minimum 10 pages excluding figures, tables, photographs, maps, references and appendices. One copy of the report on A 4 size paper should be submitted in **soft binding**.

### **UNIT – II**

Plane table survey:

1. Introduction, Objectives, Principle, Equipments Used in Survey, Advantages and Disadvantages of Plane Table Survey.
2. Methods of Plane Table Survey : Radiation; Intersection; Open Traverse and Close Traverse. (with minimum of five stations.) (4 exercises)
3. Resectioning: three point problem by mechanical and graphical methods of Bessel and Llano. (3 exercises)

Note :- Each exercise should be drawn on a full drawing sheet.

## UNIT – III

Prismatic compass survey:

1. Introduction, Objectives, Principle, Equipments Used in Survey, Advantages and Disadvantages of Prismatic compass survey.
2. Types of bearings and conversion of bearings.
3. Methods of Prismatic Compass Survey: Radiation; Intersection; Open Traverse and Close Traverse (with a minimum of five stations). (4 exercises)
4. Calculation of included angles; correction of bearing; closing of the error. (1 exercise)

Note :-

1. Survey exercises should be drawn on full drawing sheets.
2. Ex-students will have to complete the prescribed practical work under the guidance of the Head of the Department of the respective college and to produce a certificate to that effect before the commencement of the examination.
3. Field work will be of two hours duration including preparation of final sheet.
4. The test paper will be conducted by University along with theory papers. The maximum marks of this paper will be 30 marks.

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### **Scheme of Examination :**

1. Candidates will be examined by External Examiner in consultation with Internal Examiner.
2. The distribution of marks will be as follows :

1	Test Paper	30 Marks	Conducted by University along with theory exams.
2	Record Work	10 Marks	
3	Viva Voce (Record Work)	05 Marks	
4	Field Work	10 Marks	
5	Viva Voce (on Field work)	05 Marks	
TOTAL Marks		60 Marks	

3. Ex-students will have to complete the prescribed practical work under the guidance of the Head of the Department of the respective college and to produce a certificate to that effect before the commencement of the examination.

### **Suggestive:**

1. Creswell, J., (1994). Research Design: Qualitative and Quantitative Approaches. UK: Sage Publications.
2. Dikshit, R. D. (2003). The Art and Science of Geography: Integrated Readings. New Delhi, India: Prentice-Hall of India.
3. Mukherjee, Neela. (1993). Participatory Rural Appraisal: Methodology and Application. Delhi, India: Concept Publs. Co.
4. Robinson, A. (1998). Thinking Straight and Writing That Way. In Pryczak, F. and Bruce, R. P. eds.. Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioural Sciences. Los Angeles, USA: Routledge.
5. Special Issue on "Doing Fieldwork" The Geographical Review 91:1-2 (2001).
6. शर्मा जे०पी० : प्रयोगात्मक भूगोल, रस्तोगी प्रकाशन मेरठ।
7. खुल्लर डी० आर० : प्रयोगात्मक भूगोल, कल्याणी पब्लिशर, नई दिल्ली।
8. सिंह आर०एल० : मानचित्र एवं प्रयोगात्मक भूगोल, सेंट्रल बुक डिपो, इलाहाबाद।