

**SAINT CLARET COLLEGE, ZIRO**  
**B. A. (GEOGRAPHY)**  
**SYLLABUS AS PER RGU SEMESTRAL SCHEME**  
(Subjected to syllabus enrichment by SCCZ for Claretines)

**Semester II**

**GEOGRAPHY (SBC)**

**GEOGCP-252: SURVEYING AND MAP PROJECTION (Skill Based Course)**

(Compulsory paper for students who want to opt Major in Geography in V-VI semester)

Total Marks: 100 –Practical. (80- End Semester and 20-Sessional including the field survey part)

**Objectives** Having studied this paper, a student will be able to:

- a. Explain with examples the meaning and scope of surveying and map projection in geographical studies.*
- b. Understand the various methods of survey and map projection in geographical data collection.*
- c. Explain the importance of map projection in Geography.*

Unit 0 Baseline Analysis: Course Objectives & Goal Setting, Fundamentals of surveying and map projection in Geography.

**Section A: Surveying**

**Plane Table Survey**

Exercise no. 1: Radiation

Exercise no. 2: Intersection

**Prismatic Compass Survey**

Exercise no. 3: Open Travers

Exercise no. 4: Closed Travers

**Dumpy Level Survey**

Exercise no. 5: Rise and Fall

**Section B: Map Projection**

**Perspective**

Exercise no. 6: Orthographic

Exercise no. 7: Stereographic

Exercise no. 8: Gnomonic

## **Cylindrical Projection**

Exercise no. 9: Simple Cylindrical

Exercise no. 10: Cylindrical Equal area

## **Conical Projection**

Exercise no. 11: One Standard Parallel

Exercise no. 12: Two Standard Parallel

## **Recommended Reading**

Kellaway, G.P. (1979). *Map Projection*. New Delhi: B.I. Publications.

Misra, R.P. & Ramesh, A. (1986). *Fundamentals of Cartography*. New Delhi: Macmillan.

Monkhouse, F. J. & Wilkinson, H.R. (1980). *Maps and Diagrams*. New Delhi: B.I. Publications Private Limited.

Robinson, A. H. Morrison, J.I. Muehrcke, P.C. Kimerling, A.j. & Gupta, S.C. (1995). *Elements of Cartography*. New York: John Wiley and Sons.

Singh, R.L. & Singh, R.P.B. (1992). *Elements of Practical Geography*.

Steers, J.A. (1954). *An Introduction to the Study of Map Projection*. London: University of London Press.