CORE COURSE: GYP 405: Techniques in Physical Geography

Course learning outcomes:

CO1: Understand the different types of profile drawing.
CO2: Analyse the morphometric and stream order bifurcation ratio in techniques in physical geography.
CO3: Evaluate the slope analysis.
CO4: Understand the Smith and Wentworth's method.
CO5: To understand the different types of climatic graphs.

Exercise No	Title of the Exercise (Total 52 Hrs.)
1	Profile- Definition, Importance and Uses
2	Methods Drawing of Profile
3	Types of Profiles- Serial, Superimposed Profile
4	Types of Profiles- Projected, Composited and Longitudinal Profile
5	Construction of landforms through contour feature- Hill, Plateau, George, Escarpment
6	Construction of Land forms through Contour features- Waterfall, V and U Shaped Valley, Hanging Valley, Cliffs.
7	Morphometric Analysis (Linear features)
8	Morphometric Stream Ordering.
9	Bifurcation Ratio and Drainage Density
10	Slope Analysis: Meaning, Definition.
11	Smith's Method
12	Wentworth's Method
13	Block Diagrams- one point perspective
14	Block Diagrams- two point perspective
15	Geological Map Drawing

Reference:

1. Monkhouse F.J. and Wilkinson H.R. (1952): Maps and Diagrams, their compilations and concentration, Muthuen & Co. London.
2. Harwel J.D, Newson MD. (1973): Techniques in Physical Geography, Mc. Millan Edu. Ltd. London.
3. Mishra R.P. And Ramesh A. (1968): Fundamentals of Cartography, Prasaranga, University of Mysore, Mysore.
4. Robinson & Marison (1995): Elements of Cartography USA.
5. R.L. Singh (2010): Practical Geography, Sharada Pustak Bhavan, 11, University Road, Allahabad, UP – India.