

### **31036- SURVEYING PRACTICE- I**

#### **UNIT- I CHAIN AND COMPASS SURVEYING**

1. Study of chain, tape and accessories used for chain survey.
2. Study of Prismatic compass, setting up over a station and observe bearings of lines.
3. Running closed traverse and finding the included angles – Use Chain / Tape and Compass. Minimum 5 points.
4. Determination of distance between two points when their base is accessible. Use Chain / Tape and Compass.
5. Determination of distance between two points when their base is inaccessible. Use Chain / Tape and Compass.

#### **UNIT- III GLOBAL POSITIONING SYSTEM (GPS)**

1. Reading of various Maps like Taluk map, District Map and Topo sheets.
2. Study of Hand held GPS.
3. Measurement of Latitude, Longitude and Altitude using hand held GPS.
4. Selection and marking of routings (Way points) using hand held GPS.

#### **UNIT- II LEVELLING**

1. Study of a Level - Temporary adjustment, taking readings and booking in a field book.
2. Fly levelling – Reduction by Height of Collimation method - Minimum 6 points with two change points (Minimum Four exercises)
3. Fly levelling – Reduction by Rise and Fall method - Minimum 6 points with two change points (Minimum Four exercises)
4. Fly levelling covering minimum 6 points with 2 inverted readings (Minimum Two exercises).
5. Check levelling and reduction of levels (Minimum 2 exercises)