

**UNIT I****Chapter 1 : Plane Table Surveying 1-1 to 1-15**

**Syllabus :** Principle of plane table survey. Accessories of plane table and their use, Telescopic alidade. Setting of plane table; Orientation of plane table - Back sighting and Magnetic meridian method, True Meridian Method. Methods of plane table surveys- Radiation, Intersection and Traversing. Merits and demerits of plane table survey.

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**UNIT II****Chapter 2 : Theodolite Surveying 2-1 to 2-64**

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**UNIT III****Chapter 3 : Tacheometric Surveying 3-1 to 3-37**

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**Syllabus** : Principle of Electronic Distance Meter (EDM), its component parts and their Functions, use of EDM. Construction and use of One Second Micro Optic Theodolite, Electronic Digital Theodolite. Features of Electronic Theodolite. Construction and Use of Total Station, Temporary adjustments. Use of function keys. Measurements of Horizontal angle, vertical angles, distances and coordinates using total Station. Traversing, Profile survey and Contouring with Total Station.



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## UNIT VI

### Chapter 6 : Remote Sensing, GPS and GIS 6-1 to 6-10

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