

## FIELD SURVEY PRACTICE (PRACTICAL)

<b>Subject Code</b> <b>00207</b>	<b>Practical</b>			<b>No of Period in one session : 60</b>		
	<b>No. of Periods Per Week</b>			<b>Full Marks</b>	<b>:</b>	<b>100</b>
	<b>L</b>	<b>T</b>	<b>P/S</b>	<b>Annual Exam.</b>	<b>:</b>	<b>80</b>
	<b>00</b>	<b>00</b>	<b>12 days continuous</b>	<b>Internal Exam.</b>	<b>:</b>	<b>20</b>

### Rationale & Objective:

After learning the theoretical paper, it is essential for students to have a practice for surveying in the field with the help of instruments and survey accessories learnt in theory, to develop desired skill in land surveying and measurement.

### List of Activities: Field Work

<u>S.No.</u>	<u>Topic</u>
1	Testing & adjustment of chain.
2	Chaining & Ranging a line and recording in the field book including taking offsets (using optical square & other instruments), doing chain survey.
3	Study of prismatic compass, setting of compass and taking bearings, traversing with compass & chain.
4	Study of plane table survey equipment, setting up of plane table, orientation of plane table, doing plane table survey by radiation, intersection and traversing.
5	Study of levels. Temporary adjustment of levels, taking staff reading on different stations & recording in level book, finding difference of level between two distant points. Plotting longitudinal section & cross-sections.
6	Taking out theodolite from the box mounting on the Tripod and placing it back. Study of theodolite, temporary adjustment of the theodolite, reading of vernier and calculation of least count and taking readings.

### Books Recommended for Field Survey Practice (Practical):

1	Surveying & Levelling Part-I	- By T.P. Kanetkar & S.V. Kulkarni
2	Surveying Vol. I	- By B.C. Punamia
3	Surveying	- By Hussain & Nagraj
4	Surveying & Levelling	- By Agar
5	सर्वेक्षण	- जे. झा
6	सर्वेक्षण	- गुरुचरण सिंह
7	Plane & Geodetic Surveying Vol. I	- By David Clark