

1151CE301 (VTUR15)	SURVEYING PRACTICAL – I	L	T	P	C
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Course Category: Laboratory Course

A. Preamble:

To provide the understanding of surveying and equipment in advanced level and it also helps the student to understand the shape of earth, mapping of earth and astronomical surveying.

B. Prerequisites:

- Basic Civil Engineering

C. Links to other Courses:

- Surveying
- Surveying Laboratory

D. Course Outcome:

- The student will have complete field knowledge about survey field techniques and how and where they are used before and after construction.
- The student will possess knowledge about Survey field techniques.

E. Course Outcome:

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
CO1	Understand the Study of chains and its accessories	K3,S3
CO2	Understand the Study of bearing using prismatic and surveyors compass	K3,S3
CO3	Understand the Plane table surveying: Radiation, Intersection	K3, S3
CO4	Understand the Fly leveling , Check levelling using Dumpy level and Tilting level	K3, S3

F. Course Content

LIST OF EXPERIMENTS

1. Study of chains and its accessories
2. Ranging and Chaining of a line
3. Study of bearing using prismatic and surveyors compass
4. Compass Traversing
5. Plane table surveying: Radiation, Intersection
6. Plane table surveying: Resection –Two point problem
7. Plane table surveying: Resection –Three point problem
8. Study of levels and levelling staff
9. Fly leveling , Check levelling using Dumpy level and Tilting level

TOTAL: 30 Periods

G. Learning Resources:

a) TEXT BOOKS

1. Punmia B.C. Surveying, Vols. I, II and III, Laxmi Publications, 2005
2. Kanetkar T.P., Surveying and Levelling, Vols. I and II, Vidyarthi Griha Prakashan, 24th edition, 2010.

b) REFERENCES

1. Clark D., Plane and Geodetic Surveying, Vols. I and II, C.B.S. Publishers and Distributors, Delhi, Sixth Edition, 2004.
2. James M.Anderson and Edward M.Mikhail, Introduction to Surveying, McGraw-Hill Book Company, 1990.
3. Heribert Kahmen and Wolfgang Faig, Surveying, Walter de Gruyter, 1995.
4. Bannister A. and Raymond S., Surveying, ELBS, 7th Edition, 1998.
5. Raymond Paul, Walter Whyte., Basic Surveying, Taylor & Francis, 2012