

1151CE114 (VTUR15)	SURVEYING	L	T	P	C
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Course Category: Programme Core

A. Preamble

This course will be useful to know and understand the essential types and concepts surveying and their applications.

B. Prerequisites:

- Nil

C. Link To Other Courses:

- Nil

D. Course Educational Objectives:

Students undergoing this course are expected to

- To understand surveying principles and various types of surveying like levelling, tacheometric and advanced surveying using equipments like total station and GPS.

E. Course Outcome:

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's)
CO1	Enumerate the various concepts in surveying and Explain the importance of surveying in construction.	K2
CO2	Discuss the uses and importance of levelling and applications.	K3
CO3	Describe the importance and uses of tacheometry and control surveying	K2
CO4	Explain the GPS and Total Station surveying and its usage in field.	K3
CO5	Illustrate the various advanced engineering surveys and the processes involved in the same.	K2

F. Correlation of COs with POs

G. Course Content:

UNIT I FUNDAMENTAL SURVEYING

9

Surveying - Classifications - Basic principles- – Methods of chaining and ranging - Errors in linear measurement and their corrections - Compass – Basic principles - Bearing and systems - Local attraction-Plane table surveying-Methods of traversing.

