

MODULE : TB2

INSTRUMENT TRANSFORMER (CT's, PT's) SELECTION & APPLICATION

COURSE DESCRIPTION:

Current Transformers :

Distinction between CT and conventional transformers, equivalent circuit and phasor diagrams; errors: Accuracy Limit Factors; voltage developed across CT secondary ; CT ratio; Short time withstand current; Bar and wound primary CTs; Classification based on application. (Metering, Protection and PS class) ; relay burden ; CT specification; Other CT applications (Interposing, summation, core balance and Auxiliary CTs).

Voltage Transformers :

Errors; voltage factor; connections (star, delta, open delta and 'V' connections); PT ratio; Insulation level ; Classification based on application (Metering, Protection class) ; Protection of PT; PT specification.

Typical exercise for selection of CT & PT.