

Transformer testing and winding workshop

Organized by: EESA

Government College of Engineering, Karad

Department of Electrical Engineering







Outcomes of the workshop:

Students have got thorough practical knowledge of building transformer and its quality testing.

1. Calculation of Voltage per turn.
2. Calculation of number of turns primary and secondary.
3. Calculation of core diameter.
4. Calculation of core area.
5. Calculation of number of steps and stacks.
6. Calculation of overall dimensions of core.
7. Calculation of approx. weight of core.
8. Calculation of window height and window width.
9. Calculation of secondary windings.
10. Calculation of primary windings.
11. Operation of Buchholz relay.
12. Various tests for performance and quality testing:
 - I. R value measurement.
 - Winding Resistance measurement.
 - Ratio test.
 - Magnetic balance test.
 - Short circuit test.
 - Vector group test.

Information about H.V tests like back to back test, Impulse H.V test, Oil test etc also given.