SECTION HEADING

ELUT 2121: Protective Relays

Description

Protective Relays is designed to give a broad understanding of simple relays that are used in the protection of high voltage lines and substations. Emphasis is on understanding design, construction, and application, performing testing, calibrating, cleaning and adjusting relays. The following relays will be studied if time allows: overcurrent induction disc, thermal overcurrent, induction disc voltage, over/under voltage, voltage restraint, percentage differential, and transformer differential relays.

Credits

2

Topics to be Covered

1. Installation, testing and calibrating of simple and compound relays.

Learning Outcomes

1. Describe the design, construction, application, function, and perform testing of overcurrent induction disc relays.

2. Describe the design, construction, application, function, and perform testing of thermal overcurrent relays.

3. Describe the design, construction, application, function, and perform testing of induction disc voltage relays.

4. Describe the design, construction, application, function, and perform testing of voltage controlled overcurrent induction disc relays.

5. Describe the design, construction, application, function, and perform testing of voltage restraint overcurrent induction disc relays.

6. Describe the design, construction, application, function, and perform testing of directional overcurrent induction relays.

7. Describe the design, construction, application, function, and perform testing of percentage differential relays and transformer differential relays.

Credit Details

Lecture: 1

Lab: 1

OJT: 0