
SECTION HEADING

ELUT 2126: Regulators and Capacitors

Description

Regulators and Capacitors covers the methods used in producing a reliable power source by controlling voltage loss and power factor through the use of capacitors and/or regulators.

Credits

2

Topics to be Covered

1. Power source production and reliability
2. Voltage regulation
3. Capacitors
4. Regulators
5. Tap changing transformers

Learning Outcomes

1. Explain the operation of a single-phase induction voltage regulator and a three-phase induction voltage regulator including how these regulators maintain the delivery of a constant line voltage to a distribution point
2. Identify the major components for the control of voltage regulation and describe their operation in regulating a constant voltage.
3. Describe the procedure and safety required in installing and removing regulators and capacitors from service.
4. Describe the functions of a tap changing transformer and identify the difference between load tap changer and a no-load tap changer.
5. Describe the functions of a tap changing transformer and identify the difference between load tap changer and a no-load tap changer.
6. Describe the difference and reasons for connecting capacitors in parallel or series.

Credit Details

Lecture: 1

Lab: 1

OJT: 0