

ELECTRICAL AND ELECTRONICS ENGINEERING

Expert Lecture on “Recent Trends in Power System Protection”

Under TEQIP-II

on 11-04-2014 from 10.30 a.m to 1.15 & 2.15 to 3.15 in Auditorium

Mr.M.N.Murthy Principal Director, Power System Training Institute, Bangalore delivered lecture on Recent Trends in Power System Protection. He Explained about the primary purpose of power system protection is to ensure safe operation of power systems, thus to care for the safety of people, personnel and equipment. Furthermore, the task is to minimize the impact of un-avoidable faults in the system. From an electrical point of view, dangerous situations can occur from

- Over currents and
- Over voltages.

He also explained different network topologies require different protection schemes. The simplest network structure to protect are radial systems, therefore simple relays are used. And discussed about Adaptive protection is as "an online activity that modifies the preferred protective response to a change in system conditions or requirements. It is usually automatic, but can include timely human intervention" An adaptive relay is "a relay that can have its settings, characteristics or logic functions changed online in a timely manner by means of externally generated signals or control action"

