



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B. Reddy Nagar, Mylavaram-521 230. Andhra Pradesh, INDIA  
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### GUEST LECTURE

Dept. of EEE conducted a Guest Lecture on "Generator Excitation and Protection" on 24th Jan 2014

Mr N.Siva Prasad, DE, NTTPS, Vijayawada, was the resource person of the Guest Lecture.

In this Guest Lecture the following Topics were covered :

Constant voltage at the generator terminals is essential at all operating conditions for satisfactory main power supply. Recent developments in automatic regulators like digital voltage regulators which are provided with various features V/Hz limiter, stator current limiter, rotor current limiter, rotor angle limiter and power system stabilizer.

Automatic Voltage Regulator (AVR) may be discontinuous or continuous type. The discontinuous control type is simpler than the continuous type but it has a dead zone where no signal is given. Therefore, its response time is longer and less accurate. Modern static continuous type automatic voltage regulator has the advantage of providing extremely fast response times and high field ceiling voltages for forcing rapid changes in the generator terminal voltage during system faults. Rapid terminal voltage forcing is necessary to maintain transient stability of the power system during and immediately after system faults.



