



**NALLA NARASIMHA REDDY**  
**EDUCATION SOCIETY'S GROUP OF INSTITUTIONS**  
Approved by AIGTE, New Delhi, Affiliated to JNTU - Hyderabad

**SCHOOL OF ENGINEERING**  
**Department of Electrical and Electronics Engineering**

**Report on Guest Lecture by Mr. T.V.Rao**  
**On**

**FAULT ANALYSIS ON POWER TRANSMISSION AND PROTECTION OF  
SUBSTATIONS**

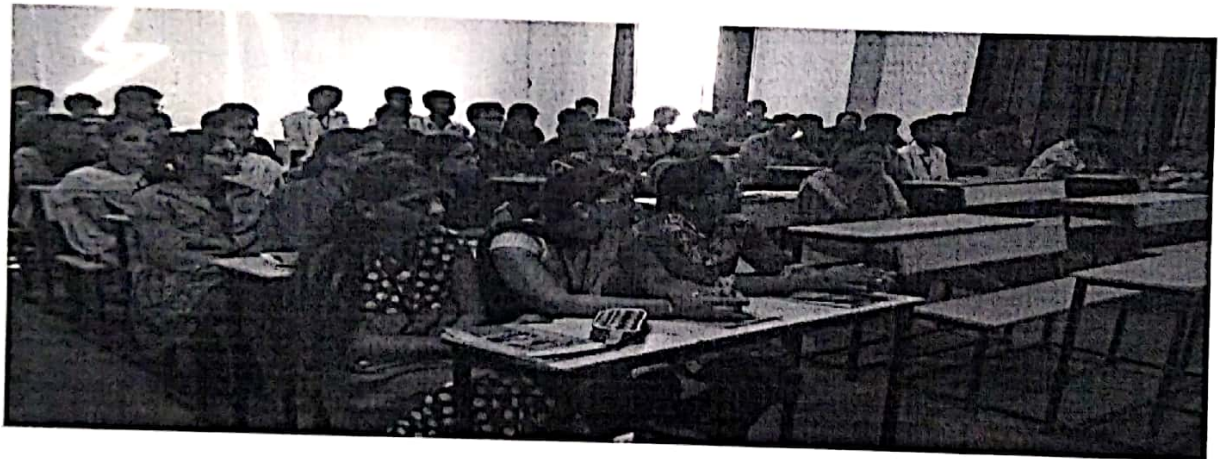
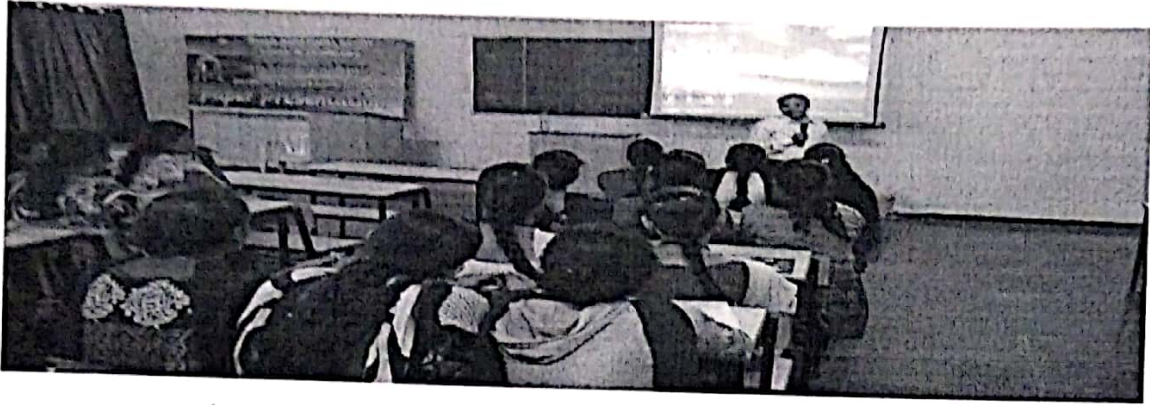
Nalla Narasimha Reddy Educational Society's Group of Institutions School of Engineering Department of Electrical & Electronics Engineering has organized a Guest Lecture on 16<sup>th</sup> July 2015. The Guest speaker was **Mr. T.V.Rao, Rtd Senior Section Engineer from Indian Railways**. The guest has arrived at 10.15 am and was welcomed by **Mr. T.C. Subramanyam, HoD & Associate Professor, Department of EEE, Mr. T. Sampath Reddy, Training & Placement Officer and Mr. T. Sreekanth, Asst. Professor, Department of EEE**. The lecture was attended by staff and Students about 77 members. Mrs. K.Swathi, Assistant Professor, Department of EEE, introduced the speaker Mr. T.V.Rao, Rtd Senior Section Engineer from Indian Railways. He has covered syllabus topics including fault analysis per unit, representation and its advantages, faults in power systems (Symmetrical & Unsymmetrical), Effect of fault impedance. System Protection – Protection of Generators: Earth Fault, Percentage, Differential, Loss of excitation, Prime mover failure, Over current, Turn to turn fault, Negative phase sequence, heating, reverse power protection schemes, Protection of Transformers: Internal, external fault protection.

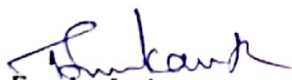
The lecture was concluded by vote of thanks by Mr. T. Sreekanth, Asst. Professor, and Department of EEE. **Dr. G. Janardhana Raju, Dean School of engineering, NNRG** presented memento to the chief guest and addressed the gathering. It was a very resourceful session and the students gave a very good feedback.


It is good steps for students to ventilate their heart & came out from situation, after the lecture students have fresh mind they have got solution for their problems. Total 50 students were attended the lecture.

Lecture was ended at 12.30 p.m. Every one left the hall with positive attitude towards life.

**PHOTOS:**



  
Faculty Incharge

  
Head of the Department  
Electrical & Electronics Engineering  
Nalla Narsimha Reddy Education Society's  
Group of Institution

**Department of Electrical and Electronics Engineering**

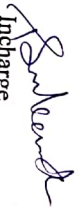
Academic Year:2015-16  
Activity: Guest Lecture  
Semester: I


**Consolidated report and outcomes of the Guest Lecture:**

1. The guest lecture was highly informative.
2. This lecture reviewed the fundamental principles of transmission line protection. Concepts of distance protection, directional over current, line differential, and pilot protection schemes will be discussed.

**Actions taken :**

1. The speaker and HoD advised the students to do the fault calculations for various transmission lines.

  
Incharge

  
Head of the Department  
Electrical & Electronics Engineering  
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