

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC - AUTONOMOUS)

Report on
Guest Lecture on "Live Line Maintenance of Transmission lines"
Organized by Dept. of EEE - MITS
06 February 2016



Submitted by: Dr. A. Anbarasan, Associate Professor, Dept. of Electrical & Electronics Engg.

A Guest Lecture on the topic "Live Line Maintenance of Transmission lines" was conducted by the department of Electrical & Electronics Engg., MITS, Madanapalle under TEQIP- II on 06.02.2016. The Resource Person was Sri. S. Prakash, Assistant Director, Hot Line Training Centre (HLTC), Bangalore.

The program started with the inaugural session & the HoD of EEE department Dr. K.V.R.B. Prasad welcome the gathering. Principal Dr. C. Yuvaraj stressed the importance of the topic, need of guest lecture on these kind of advanced area and advised the students to make use of this program. Dr. K. Rajangam, Associate Professor, Dept. of EEE introduced the Chief Guest Sri. S. Prakash, Assistant Director, Hot Line Training Centre (HLTC), to the gathering,

In the first session, the resource person gave valuable information regarding Hot Line Training Centre (HLTC). HLTC is imparting Live Line Maintenance Training on Transmission Lines, Switch Yards etc., using Hot Stick Method and Bare Hand Method. To supply Power without interruption to the consumer, the Transmission Lines and Switchyards are necessary which must be maintained with avoidable outage. Hence need of well trained Personnel to do Maintenance on Live Transmission Lines and Switchyard is necessary.

He briefly explained about the various training courses conducted by the HLTC to live line maintenance of transmission lines with videos and interactive power point presentation. He covers the following methods of live line maintenance.

1. Live line maintenance techniques using hot stick method up to 220kv
2. live line maintenance techniques using bare hand method on 220kv/ 400kv lines
3. Switchyard maintenance using live line maintenance techniques.
4. Capsule courses for executives in hot line activities
5. Punctured insulator detector course
6. Live line insulator washing- on-site course conducted at customer site:
7. Familiarization training program on cold lines

In the second session, he discussed about the over view of Punctured insulator detector. He talked about the detection of puncture of insulator string (both suspension type and horizontal type), replacement of punctured insulator at live condition, time needed to complete the task, amount involved for replacement of insulator disk. He also explained comparative report of time, amount involved, difficulties of power shut down for maintenance while doing at off-line mode.

The feedback about the Guest Lecture was collected from the participants. The coordinator of the guest lecture Dr. A. Anbarasan, Associate Professor, Dept. of EEE concluded the event with a vote of thanks.