



Learn Beyond

KPR Institute of Engineering and Technology

(Autonomous, NAAC "A")

Avinashi Road, Arasur, Coimbatore.

Phone: 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**EE067****NBA Accredited**
(CSE, ECE, EEE,
MECH, CIVIL)**DESIGN AND PROTECTION OF OVERHEAD TRANSMISSION LINES**

Event No	EE067
Organizing Department	Electrical and Electronics Engineering
Associate Dept. NSC	Electrical and Electronics Engineering
Date	20/03/2023
Time	10:00 AM to 11:30 AM
Event Type	Guest Lecture
Event Level	Institute
Venue	Thanam Hall
Meeting Medium	
Meeting Link	https://meet.google.com/fgq-bbix-ysb
Total Participants	270
Faculty - Internal	20
Students - Internal	250

Related SDG**Resource Persons**

Sl	Type	Name	Designation	Company	Email	Phone
1	Chief Guest	Dr T Hariharan	Assistant Engineer	Operation and Efficiency Division, Mettur Thermal Power Station/ TANGEDCO	thariharanmv@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Chandrika V S	Coordinator
2	Pazhanimuthu C	Coordinator
3	Mohamed Ibrahim A	Coordinator

Outcome

The guest lecture on design and protection of overhead transmission lines discussed the following topics:

1. Design of overhead transmission lines
2. Design of electric protection system to detect and discriminate all faults on the protected line.

The participants gained knowledge on the above topics.

Event Summary

The department of Electrical and Electronics Engineering organized a guest lecture on "DESIGN AND PROTECTION OF OVERHEAD TRANSMISSION LINES" on 20/03/2023 exclusively for second and third year students of EEE. A heart-warming welcome was delivered by Dr. V. S. Chandrika, Professor, Dept. of EEE.

Dr. T. Hariharan, Assistant Engineer, Operation and Efficiency Division, Mettur Thermal Power Station/ TANGEDCO delivered a valuable presentation on design of transmission lines and protocols for the development of protection circuits for the same.

He had presented the discussions on

- AC circuits and sequence circuits of power networks
- Matrix methods in AC power system analysis
- Overhead transmission line parameters
- Modeling of transmission lines

- AC power-flow analysis using iterative methods
- Symmetrical and unsymmetrical faults
- Control of voltage and power flow
- Stability in AC networks
- High-voltage direct current (HVDC) transmission
- Corona and electric field effects of transmission lines
- Lightning performance of transmission lines
- Coordination of transmission line insulation
- Ampacity of overhead line conductors

The speaker covered everything electrical engineering students and practicing engineers need to know to effectively design the overhead power lines.

He also cleared all the queries of the participants in a detailed way.

The participants gave a very good feedback on the presentation of the speaker.

The vote of thanks was delivered by Dr. C. Pazhanimuthu, AP (SI.G)/ EEE. There were about 250 students and 20 faculty members attended the programme and got benefited. The department of EEE thanks the management for providing this opportunity to conduct the guest lecture successfully.



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75 G20

Department of Electrical and Electronics Engineering

Organizes a Guest Lecture on

Design and Protection of Overhead Transmission Lines

Resource Person

Dr.T.Hariharan
 Assistant Engineer
 Operation and Efficiency Division
 Mettur Thermal Power Station/ TANGEDCO
 Mettur Dam

Faculty Coordinators
 Dr.V.S.Chandrika, Professor/EEE
 Dr.C.Pazhanimuthu, AP (SI.G)/EEE
 Mr.A.Mohamed Ibrahim, AP (Sr.G)/EEE

20.03.2023
 10.00 AM - 11.30 AM

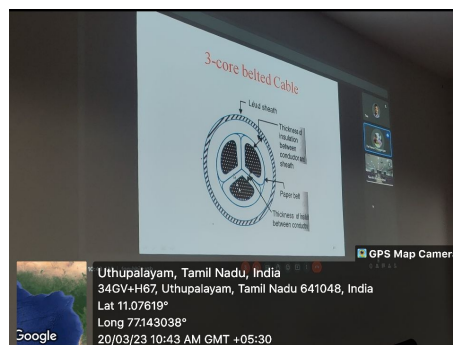
Thanam Hall

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