



SREE VIDYANIKETHAN ENGINEERING COLLEGE,
(Autonomous)
Department of EEE

Report on Expert Lecture "POWER SYSTEM PROTECTION"

Department of Electrical and Electronics Engineering organized an expert lecture on "**POWER SYSTEM PROTECTION**" Under ISTE Student Chapter & IEEE Student Branch on 17.03.2022 at 7 to 8.30 PM online mode (ZOOM).

Mr. R. Viswanathan, Chief Manager, Power Grid Corporation of India, Bangalore was the resource person. **Dr. E. Parimalasundar, Associate professor, EEE** welcomed the participants for the event. **Dr. M. S. Sujatha, Professor and Head, EEE** addressed the gathering and gave some importance of the expert lecture session to students.

Mr. V. Karthikeyan, Assistant Professor, EEE introduced the speaker with profile and achievements. Then session handed over to the speaker.

Mr. R. Viswanathan speaker of the session started to deliver her expert talk around 80 participants were in the session. He was started with Different schemes of power system protection available.

The main motto of the conduction of this one day expert lecture was to impart and share the knowledge to the every one through the Industrial expert and to fill the gap between academic and industrial expertise to know what skills exactly students need. Students were listening to the session actively to learn about various protection schemes. Session went very well he has explained the recent statistics of job skills in market and statistics of domain of power systems.

FEW GLANCES OF ONLINE EXPERT LECTURE

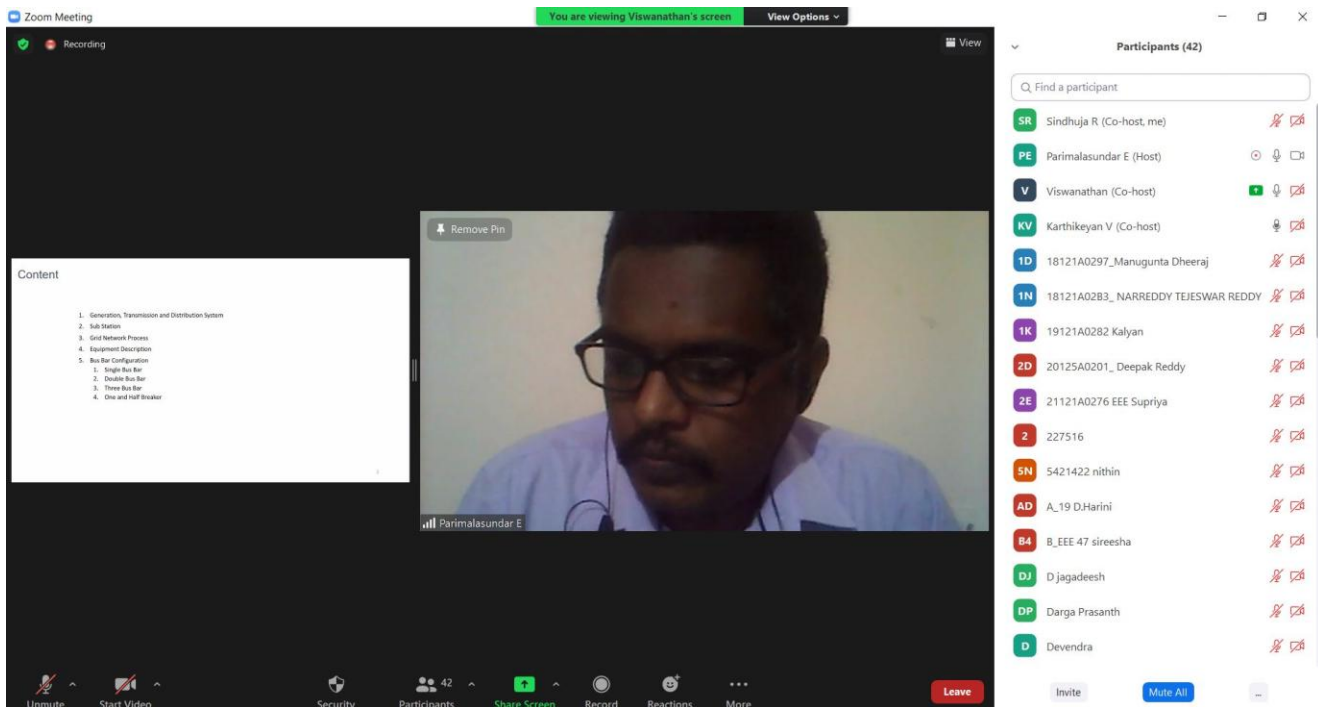


Fig. 1. Convener speaks about significance of expert lecture

Figure 1 represents about convener speaks about significance of expert lecture. Resource person has explained to participants about various power system protection schemes available in power systems importance of protection, various operations of circuit breaker and relays and how circuit breakers are installed in grid. He also explained about various operations of power grid, roles and responsibilities how load scheduling and dispatching is done in power grid. Figure 2 illustrates about basic structure of Speaker explains about Generation, Transmission and Distribution System. Figure 3 represents resource person explains about Grid Network - Process.

Fig. 2. Speaker explains about Generation, Transmission and Distribution System

Outcomes of the Expert Lecture:

- Students able to know about protection schemes.
- Types of protection equipment in distribution systems.
- The webinar aimed to impart knowledge on various skills, and in webinar it was clearly explained human Vs robots and workspace models of the industry.
- Traditionally, the overall objective of power system operation is reliable supply of electrical energy to a passive consumer.
- Modern energy systems combine this objective with the goal of a sustainable and economical allocation of energy sources.

Grid Network - Process

- Power Evacuation Substation**
 - Located adjacent to the Power Plant
 - Preferred voltage level 765 kV, 400 kV, 245 kV
 - Voltage Depends on Quantum of Power, Distance of Transmission
- Transmission Substation**
 - Location is decided based on Transmission Grid Network
 - Preferred voltage level 765 kV, 400 kV, 245 kV, 132 kV
 - Voltage Depends on Length of Transmission Line
- Distribution Substation**
 - Location is near the load
 - Preferred voltage level 132 kV, 66 kV, 33 kV
 - Voltage Depends on Power Demand

Participants (63)

Participant ID	Name	Role
SR	Sindhuja R	(Co-host, me)
PE	Parimalasundar E	(Host)
V	Viswanathan	(Co-host)
1D	18121A0297_Manugunta Dheeraj	
1N	18121A02B3_NARREDDY TEJESWAR REDDY	
1H	19121A0222- Hemanth	
1K	19121A0282 Kalyan	
1S	19121A02A7 Somasekhar	
1D	19121A02G0 Dharmateja	
1	19121a02k3	
2D	20125A0201_ Deepak Reddy	
2V	21121A0266@Manoj Vishnu EEE(B)	
2E	21121A0276 EEE Supriya	
2M	21121A02A7 M Abdul latheef	
5N	5421422 nithin	
AD	A_19 D.Harini	

Fig. 3. Resource person explains about Grid Network - Process

Details of Speaker:

Mr.R.Viswanathan
Chief Manager,
Power Grid Corporation of India,
Bangalore.

Convener:
Dr. E. Parimalasundar
Associate professor

H.O.D/EEE