

Guest Lecture on the Topic “Recent Trends and Practical Aspects in HVDC Transmission”

- **Venue:** - Online (Cisco-Webex)
- **Organised by:** - Electrical Department, VPKBIET, Baramati.
- **Class Involved:** - TE/BE Electrical Students (91+70).
- **Subjects Covered:** Power System II, Smart Grid, High Voltage Engineering.
- **Coordinator:** - Mr. Shivaji Raskar.
- **Date of lecture:** 04.05.2022 (10 am-1.30 pm)

Department of Electrical Engineering, VPKBIET, organized an Expert lecture on the topic “Recent Trends and Practical Aspects in HVDC Transmission” on 04/05/2022 from 10.00 am to 1.30 pm on the online platform for TE & BE students. The resource person for this lecture was from MAHATRANSCO, Mr. Prakash Choudhari, a retired executive engineer experienced in HVDC Transmission system.

He talked about Inventions, history, needs for HVDC transmission, HVDC Transmission in India, and recent trends. Mr. Shivaji Raskar has coordinated this lecture. Mr. Rohit Tarade, HOD, Electrical Engineering Department, and R. S. Bhichkar were guided to arrange this lecture. The ISTE branch, VPKBIET, gave financial support for the expert lecture. From the feedback of the students, this lecture was very helpful for the academics as well as research. Link to watch the recorded lecture is: <https://drive.google.com/file/d/1DuxpK9o7mqCswOoXXqQJsv44ptQTGVeG/view?usp=sharing>



Mr. Prakash Choudhari

Qualification: Diploma & BE in Electrical Engg.

Executive Engineer(Retired)

MSETCL, Padhghe HVDC Terminal

Meeting Info 01:09:17

13. Narsing Bolan... 17 Shubham Des... 14.Akshay Chaud... 34. Kadam Jyoti S...

Viewing PRAKASH CHAUDHARI's screen - 100% +

HVDC Transmission Systems: Evolution HVDC..?

HVDC system evolution (>90 ABB HVDC / >170 installations worldwide)

Participants (73)

ST □ sagar Talke
SR □ Sakshi Raut
SK □ Sanket Kak...
SA □ Saurabh A...
SB □ Shashikant...
SB □ Shraddha ...
SP □ Shraddha ...
SN □ Shrish Nar...
SP □ Siddhi Pop...

Mute All Unmute All

Unmute Start video Share Record

Screenshots taken during Lecture

Meeting Info 15:51

13. Narsing Bolan... 17 Shubham Des... 34. Kadam Jyoti S... 38.Prajakta Khand...

Viewing PRAKASH CHAUDHARI's screen - 100% +

HVDC Transmission Systems

Topics

- ❖ Electricity..... Evolution ?
- ❖ HVDC... Why ?
- ❖ HVDC... How ?
- ❖ HVDC... Future trends ?
- ❖ HVDC... Questions..?

Participants (41)

SK □ Sachin Khil...
SK □ Sanket Kak...
SA □ Saurabh A...
SB □ Shashikant...
SB □ Shraddha ...
SN □ Shrish Nar...
UG □ Utkarsh Ga...
VS □ vaibhav Sw...
VG □ Vishwajit G...

Mute All Unmute All

Mute Start video Share Record

Meeting Info 03:19:35

PRAKASH CHAUD... 14.Akshay Chaud... 35 Sakshi Kadam 38.Prajakta Khand... 34. Kadam Jyoti S...

Viewing PRAKASH CHAUDHARI's screen - 100% +

HVDC Transmission Systems: Future trends..?

Evolution of HVDC systems (Future trend lines)

Installations in operation

- ❖ Capacity
- ❖ Upgrading control & protections MACH™

Future installations

- ❖ IGBT (Integrated gate bipolar transistors)
- ❖ Voltage Source Converters
- ❖ 1100 kV 10000 MW capacity
- ❖ Polymer insulated cables
- ❖ Hybrid HVDC breaker
- ❖ Multi-terminal DC grid with multiple protection zones
- ❖ Gas insulated HVDC switchgear

Participants (32)

ST □ sagar Talke
S □ saket
SR □ Sakshi Raut
SK □ Sanket Kak...
SB □ Shashikant...
SP □ Siddhi Pop...
VD □ Vaishnavi ...
VJ □ Vrushabh J...
YS □ Yogesh Su...

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Mute Start video Share Record