



NPTI



DURGAPUR

Announces

ON-LINE TRAINING

For Engineering/Diploma students

Thermal Power Generation Technology

13-24 July 2020 (2-Week)



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Power Transmission & Distribution Technology

27 July-7 August 2020 (2-Week)



Thermal Power Generation Technology

13-24 July 2020 (2-Week)

- Emerging Power Scenario in India
- Coal to Electricity
- General Layout of Thermal Power Station
- Introduction to Steam Generation and Steam Cycle Theory
- Classification of Coal and its analysis
- Description of Boiler
- Boiler Circulation Theory
- Overview of Steam Turbine
- Coal Milling Plant
- Draft Systems and Fans
- Air Preheating Arrangement
- Condenser and CW system with concept of turbine Vacuum System.
- Turbine Lub. Oil System
- BFP, CEP and Buster Pumps
- DM Water Treatment and Service Water System
- Generator Working principle and construction details
- Generator Excitation system
- Generator Cooling and Sealing system
- Generator Synchronization and Capability Curve
- On-line Test

Power Transmission & Distribution Technology

27 July-7 August 2020 (2-Week)

- EHV & UHV Transmission System
- Basics of Electrical Safety and First Aid.
- Layout of EHV switchyard
- Instrument Transformers- (CT & PT) Construction, working principle
- Transformer-Working principle, construction & classification.
- Circuit Breakers- Working principle, construction, types and parameters.
- Protection system – Operating principle of Relay, their properties and classification
- Different relays used for protection of switchyard equipment
- AT&C Losses and Reduction Methodology.
- Load Scheduling and Grid Management
- Layout of Distribution Network (33KV & 11KV) and associated equipment.
- Different types of conductors and insulators used in distribution system.
- Cable faults and their detection.
- Cable laying and Cable jointing techniques.
- Demand Side Management
- Best practices for O & M of Distribution substation.
- Installation, Commissioning and various tests in Transformer including DGA
- Auxiliary Power Supply- Station battery
- Metering and Tariff
- On-line Test

Who may Apply

Thermal Power Generation Technology

Engineering/Diploma Students (Pursuing/completed) in any discipline.

Power Transmission & Distribution Technology

Engineering/Diploma Students (Pursuing/completed) in in any discipline.

Course Fee

Rs. 1500/- per participant for Indian National
75 US Dollar- per participants for Foreign National

Dead lines

Last date for Apply for Thermal Power Generation Technology: **11/07/2020**

Last date for Apply for Power Transmission & Distribution Technology: **25/07/2020**

Apply On-line Through Following link

<https://docs.google.com/forms/d/10gso1X448nTtp18TW4BNj0EnqqrOKPvFsg0kz8Nc0Eg/edit>

Contact

+91 9434042524

Website

[http://: www.nptidurgapur.com](http://www.nptidurgapur.com)

http://: www.npti.gov.in_durgapur/

*After successful completion of Training program
Certificate will be awarded.*

एनपीटीआई के साथ पावर सेक्टर का सुनिश्चित सम्पूर्ण विकास

About NPTI Durgapur

National Power Training Institute (NPTI) has been established by the Govt. of India under the Ministry of Power, vide the Gazette of India, July 3, 1993, to function as the National apex body for Human Resource Development of Indian Power Sector. NPTI is the world's leading integrated power training institute with its HQ at Faridabad and operates on all India basis through its institutes in the different regions/power zones of the country viz., New Delhi, Durgapur, Nagpur, Neyveli, Bangalore, Nangal, Guwahati Shivpuri and Alappuzha. These institutes are fully equipped with latest state-of-the-art training infrastructure. NPTI has more than 50 years of professional expertise in the field of training and HRD in power sector with industry specific technical interface and is the only institute of its kind in India catering to the core power and allied energy sector. Institutes of NPTI are also equipped with Computer based Full Scope Replica Simulators of 210 MW/500 MW / 800 MW Fossil Fuel Thermal Power Plant to provide off job hands on training to improve the reflexes of engineers in emergent / normal operation situations of a power plant. NPTI is playing a pioneering role to prepare the manpower not only for the existing thermal, hydro, gas-based plants but also for the upcoming renewable energy sector in a dedicated manner to achieve energy independence and grid compatibility with smart power control technology.



More than 50 Years of Service to the Indian Power Sector