

NPTI-DURGAPUR

On-Line Summer Training Program
on
**“Power Generation, Transmission and
Distribution Technology”**
for
Engineering /Diploma Engineering Students
Duration (24/05/2021 TO 18/06/2021) – 4 Weeks

DAY/DATE	TOPIC	FACULTY
24/05/21	Emerging Power Scenario in India	Download Now
	Coal to Electricity.	Download Now
25/05/21	General layout of a Thermal Power Station.	Download Now
	Introduction to Steam Generation & Steam Cycle theory.	Download Now
27/05/21	Classification of Coal and their characteristics, their suitability for different kinds of boilers.	Download Now
	Description of Boiler.	Download Now
28/05/21	Boiler Circulation Theory.	Download Now
	DM water treatment and service water system	Download Now
31/05/21	Coal Milling Plant	Download Now
	Draught System and Various fans and their salient features	Download Now

01/06/21	Air Preheaters-Types and functions	Download Now
	Overview of Steam Turbine.	Download Now
02/06/21	BFP, CEP and booster pumps	Download Now
	Condenser and CW System with concept of Turbine Vacuum system.	Download Now
03/06/21	Turbine Lube Oil System	Download Now
	Doubt clearing session	Download Now
04/06/21	Generator - Working Principle & Construction details.	Download Now
	Generation Excitation system	Download Now
07/06/21	Generator Cooling and Sealing system	Download Now
	Transformer-working principle, construction features, various types of transformers used in power station	Download Now
08/06/21	Motors-fundamentals, construction details of HT/LT motors. Various motors used in power plant	Download Now
	Doubt clearing session	Download Now
09/06/21	Typical layout of a switchyard and description of main equipment	Download Now
	EHV & UHV Transmission System	Download Now
10/06/21	Instrument Transformers - CT & PT, Construction, Working Principle, Connectivity etc.	Download Now
	Circuit Breakers - Working Principle, Construction, Types, Parameters.	Download Now

11/06/21	Protection System - Operating Principle of Relay, their properties and classification	Download Now
	Different Relays used for protection of switchyard equipment	Download Now
14/06/21	AT&C Losses and Reduction Methodology.	Download Now
	Load Scheduling and Grid Management	Download Now
15/06/21	Layout of Distribution Network (33 kV & 11 kV) and associated equipments.	Download Now
	Doubt clearing session	Download Now
16/06/21	Renewable Energy Technologies : Biomass, Waste to energy & Other renewable energy technologies	Download Now
	Hydro Power Generation (Small, Mini & Micro)	Download Now
17/06/21	Solar Power Generation Technology (solar PV and Solar Thermal)	Download Now
	Types of SPV System- Off Grid, On-Grid, Hybrid. Concept of Gross metering and Net metering	Download Now
18/06/21	Demonstration of a 10 KW Rooftop SPV Doubt clearing session-solar renewables	Download Now
	Assessment / Valedictory session	Download Now