

## NPTI-DURGAPUR

**On-Line Summer Training Program**  
*on*  
**“Power Generation, Transmission and  
Distribution Technology”**  
*for*  
Engineering /Diploma Engineering Students  
Duration (07/06/2021 TO 01/07/2021) – 4 Weeks

DAY/DATE	TOPIC	Download Course Materials
07/06/21	Emerging Power Scenario in India	<a href="#">Download Now</a>
	Coal to Electricity.	<a href="#">Download Now</a>
08/06/21	General layout of a Thermal Power Station.	<a href="#">Download Now</a>
	Introduction to Steam Generation & Steam Cycle theory.	<a href="#">Download Now</a>
09/06/21	Classification of Coal and their characteristics, their suitability for different kinds of boilers.	<a href="#">Download Now</a>
	Description of Boiler.	<a href="#">Download Now</a>
10/06/21	Boiler Circulation Theory.	<a href="#">Download Now</a>
	DM water treatment and service water system	<a href="#">Download Now</a>
11/06/21	Coal Milling Plant	<a href="#">Download Now</a>
	Draught System and Various fans and their salient features	<a href="#">Download Now</a>

14/06/21	Air Preheaters-Types and functions	<a href="#">Download Now</a>
	Overview of Steam Turbine.	<a href="#">Download Now</a>
15/06/21	BFP, CEP and booster pumps	<a href="#">Download Now</a>
	Condenser and CW System with concept of Turbine Vacuum system.	<a href="#">Download Now</a>
16/06/21	Turbine Lube Oil System	<a href="#">Download Now</a>
	Doubt clearing session	<a href="#">Download Now</a>
17/06/21	Generator - Working Principle & Construction details.	<a href="#">Download Now</a>
	Generation Excitation system	<a href="#">Download Now</a>
18/06/21	Generator Cooling and Sealing system	<a href="#">Download Now</a>
	Transformer-working principle, construction features, various types of transformers used in power station	<a href="#">Download Now</a>
21/06/21	Motors-fundamentals, construction details of HT/LT motors. Various motors used in power plant	<a href="#">Download Now</a>
	Doubt clearing session	<a href="#">Download Now</a>
22/06/21	Typical layout of a switchyard and description of main equipment	<a href="#">Download Now</a>
	EHV & UHV Transmission System	<a href="#">Download Now</a>
23/06/21	Instrument Transformers - CT & PT, Construction, Working Principle, Connectivity etc.	<a href="#">Download Now</a>
	Circuit Breakers - Working Principle, Construction, Types, Parameters.	<a href="#">Download Now</a>

<b>24/06/21</b>	Protection System - Operating Principle of Relay, their properties and classification	<a href="#">Download Now</a>
	Different Relays used for protection of switchyard equipment	<a href="#">Download Now</a>
<b>25/06/21</b>	AT&C Losses and Reduction Methodology.	<a href="#">Download Now</a>
	Load Scheduling and Grid Management	<a href="#">Download Now</a>
<b>28/06/21</b>	Layout of Distribution Network (33 kV & 11 kV) and associated equipments.	<a href="#">Download Now</a>
	Doubt clearing session	<a href="#">Download Now</a>
<b>29/06/21</b>	Renewable Energy Technologies : Biomass, Waste to energy & Other renewable energy technologies	<a href="#">Download Now</a>
	Hydro Power Generation (Small, Mini & Micro)	<a href="#">Download Now</a>
<b>30/06/21</b>	Solar Power Generation Technology (solar PV and Solar Thermal)	<a href="#">Download Now</a>
	Types of SPV System- Off Grid, On-Grid, Hybrid. Concept of Gross metering and Net metering	<a href="#">Download Now</a>
<b>01/07/21</b>	Demonstration of a 10 KW Rooftop SPV Doubt clearing session-solar renewables	<a href="#">Download Now</a>
	Assessment / Valedictory session	<a href="#">Download Now</a>