

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	FACULTY
07/06/21	Emerging Power Scenario in India	Sh.S.K.Srivastava Director sksrivastava04@gmail.com
	Coal to Electricity.	Sh. R. Vachaspati Dy. Director rvachaspati@gmail.com
08/06/21	General layout of a Thermal Power Station.	Dr.C.Bhattacharya Dy. Director chittatosh_bhattacharya@rediffmail.com
	Introduction to Steam Generation & Steam Cycle theory.	Sh. R. Vachaspati Dy. Director rvachaspati@gmail.com
09/06/21	Classification of Coal and their characteristics, their suitability for different kinds of boilers.	Dr.S.Satpathi Faculty (C) Satarupa.satpathi@gmail.com
	Description of Boiler.	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com
10/06/21	Boiler Circulation Theory.	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com
	DM water treatment and service water system	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com
11/06/21	Coal Milling Plant	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com
	Draught System and Various fans and their salient features	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com

14/06/21	Air Preheaters-Types and functions	Sh. R. Vachaspati Dy. Director rvachaspati@gmail.com
	Overview of Steam Turbine.	Sh. D. Pandit Dy. Director panditdipak@rediffmail.com
15/06/21	BFP, CEP and booster pumps	Dr.C.Bhattacharya Dy. Director Chittatosh_bhattacharya@rediffmail.com
	Condenser and CW System with concept of Turbine Vacuum system.	Sh. D. Pandit Dy. Director panditdipak@rediffmail.com
16/06/21	Turbine Lube Oil System	Sh. D. Pandit Dy. Director panditdipak@rediffmail.com
	Doubt clearing session	All faculty members
17/06/21	Generator - Working Principle & Construction details.	A.Indira Dy. Director Indira.npti@gmail.com
	Generation Excitation system	Sh. Prabhas Ankuri Asstt. Director Prabhas.eemc@gmail.com
18/06/21	Generator Cooling and Sealing system	Kamal Nasir, Dy. Director, NPTI-ER Kamalnasir.npti@gmail.com
	Transformer-working principle, construction features, various types of transformers used in power station	Sh. Prabhas Ankuri Asstt. Director Prabhas.eemc@gmail.com
21/06/21	Motors-fundamentals, construction details of HT/LT motors. Various motors used in power plant	Sh. Prabhas Ankuri Asstt. Director Prabhas.eemc@gmail.com
	Doubt clearing session	All faculty members
22/06/21	Typical layout of a switchyard and description of main equipment	Kamal Nasir, Dy. Director, NPTI-ER Kamalnasir.npti@gmail.com
	EHV & UHV Transmission System	Sh.S.K.Srivastava Director sksrivastava04@gmail.com
23/06/21	Instrument Transformers - CT & PT, Construction, Working Principle, Connectivity etc.	Souvik Mukherjee, Executive Engineer, DVC
	Circuit Breakers - Working Principle, Construction, Types, Parameters.	Sh. Prabhas Ankuri Asstt. Director Prabhas.eemc@gmail.com

24/06/21	Protection System - Operating Principle of Relay, their properties and classification	Kamal Nasir, Dy. Director, NPTI-ER Kamalnasir.npti@gmail.com
	Different Relays used for protection of switchyard equipment	Kamal Nasir, Dy. Director, NPTI-ER Kamalnasir.npti@gmail.com
25/06/21	AT&C Losses and Reduction Methodology.	Sh.S.K.Srivastava Director sksrivastava04@gmail.com
	Load Scheduling and Grid Management	Kamal Nasir, Dy. Director, NPTI-ER Kamalnasir.npti@gmail.com
28/06/21	Layout of Distribution Network (33 kV & 11 kV) and associated equipments.	Sh. Prabhas Ankuri Asstt. Director Prabhas.eemc@gmail.com
	Doubt clearing session	All faculty members
29/06/21	Renewable Energy Technologies : Biomass, Waste to energy & Other renewable energy technologies	Dr.S.Satpathy Faculty (C) Satarupa.satpathi@gmail.com
	Hydro Power Generation (Small, Mini & Micro)	Sh. R. Vachaspati Dy. Director rvachaspati@gmail.com
30/06/21	Solar Power Generation Technology (solar PV and Solar Thermal)	Goutam Mattagaj Guest Faculty
	Types of SPV System- Off Grid, On-Grid, Hybrid. Concept of Gross metering and Net metering	Goutam Mattagaj Guest Faculty
01/07/21	Demonstration of a 10 KW Rooftop SPV Doubt clearing session-solar renewables	Goutam Mattagaj Guest Faculty
	Assessment / Valedictory session	---