



## NATIONAL POWER TRAINING INSTITUTE

(Ministry of Power, Govt. of India)  
(An ISO 9001:2015 & ISO 14001:2015 Organization)  
South Ambazari Road, Gopal Nagar,  
Nagpur- 440 022 (Maharashtra)



www.npti.gov.in /www.nptinagpur.com, Ph.: 0712-2226176, 2236545, 2231478  
Email:- director@nptinagpur.com , info@nptinagpur.com, nptinagpur@yahoo.com

### ADMISSION NOTICE

## 16<sup>TH</sup> BATCH (2019) - 26 Weeks POST GRADUATE DIPLOMA COURSE IN TRANSMISSION & DISTRIBUTION SYSTEMS'

**WHY YOU SHOULD JOIN?** The Indian Power Sector is growing very fast. The amendment in the Indian Electricity Act, have opened private sector participation in the Transmission & Distribution of Power. It has further created a large demand for the trained persons in electrical Utilities. The main objective of the course is to create a technically trained manpower readily available for recruitment to the power companies in the area of Transmission & Distribution of Electrical Power and allied industries.

On successful completion of this course, the Graduate Engineers shall be having good job opportunities and preference in employment with various power companies.

**About the course:** - The course is of 26 weeks duration being conducted by this institute. The course content covers complete operation and maintenance of Transmission & Distribution Systems, as per the syllabus of Indian Electricity Rules & CEA Regulations for O&M in Transmission & Distribution.

**Eligibility:-** Bachelor of Engineering or equivalent in Electrical/Power Engg./Electrical and Electronics/ Electronics & Power Engg.(E&P) or & its equivalent branches.

**Age.:-** No age limit.

**Selection Criteria:** As per merit based on Degree Percentage of marks in B.E / B.Tech. or its equivalent examination.

**Total Seats:** 60 (Sixty).

Reservation for SC/ST/OBC/PH/EWS as per Govt. norms.25% seats reserved for sponsored candidates. In case seats are falling vacant in sponsored category, same will be filled up by non-sponsored candidates.

**Placement:-**

Many reputed companies visit NPTI for campus placement and many students from the previous batch are placed with reputed Organizations like Sterlite Grid, Bajaj Electricals, KEC International, Kalpataru Power Transmission Co., Adani Power, Suzlon, SMS Infrastructure Co.ltd., Manav Energy Pvt Ltd.Etc. However placement is not guaranteed.

**Fees :** ( Non Sponsored Category/ Sponsored Category)

**1) Non Sponsored Category:-** Rs. 1,71,100/- (Rs.145,000/- + GST@18%) (in two equal installment) for non-sponsored candidates. First installment at the time of counseling for confirmation of admission.

**2)Sponsored Category :-** Rs.2,24,200/- (Rs.1,90,000/- + GST@18%) for sponsored candidates (in one installment) at the time of counseling for confirmation of admission.

**How to Apply:**

Application form as per **Annexure "A"** is to be downloaded from web site [www.nptinagpur.com/www.npti.gov.in](http://www.nptinagpur.com/www.npti.gov.in) & filled in with relevant details. Filled in application form along with a Demand Draft of **Rs. 500/-** in favor of "**NPTI, Nagpur**" payable at "**Nagpur**", should submit in person to Director, NPTI, Nagpur or (address given below) .

Candidate should write his/her name & address, Mobile No., Email id on the reverse of the DD.

**Bank Details for E transfer /NEFT:-**

**STATE BANK OF INDIA, VRCE BRANCH, NAGPUR - 440 022 (MAH), A/C No. 10259420040, MICR No. 440002005, IFSC Code:- SBIN0006702,**

**Lodging/ Boarding:** - Facilities are available on extra payment (If available). Separate hostel is available for girls. There is no fee concession for any category of candidates. Application fee is non-refundable. NPTI is not responsible for late receipt of application.

**Important Dates**

Last Date of receipt of admission form - **24/10/2019.**

Display of merit list in website - **24/10/19**

Counseling & Admission - **8/11/19**

Commencement of the Course- **11/11/19**

For further any query write us on email id or on Mob.No.

**from Monday to Friday between 10.00 am to 6.00 pm**

**Shri. P.P.Mawle, Mob.No. 8600260109**

**Shri.S.R.Titoniya, Mob.No.9890102276**

**Note:** All Instructions / Notifications or any further information to the candidates regarding the course shall be displayed on our website

[www.nptinagpur.com](http://www.nptinagpur.com), [www.npti.gov.in](http://www.npti.gov.in)



### ADDRESS FOR CORRESPONDENCE

**Head of The Institute**

**National Power Training Institute**

South Ambazari Road, Opp. VNIT, Gopal Nagar, Nagpur (M.S) - 440 022.

[www.npti.gov.in](http://www.npti.gov.in) /[www.nptinagpur.com](http://www.nptinagpur.com)

Ph.: 0712-2226176, 2236545, 2231478, Fax( 0712) 2220413

Email:-director@nptinagpur.com , info@nptinagpur.com, nptinagpur@yahoo.com

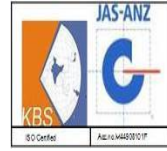


**"50 YEARS OF SERVICE TO THE POWER SECTOR"**



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## ANNEXURE- "A"

SR. NO:

### APPLICATION FORM

### 26 WEEK POST GRADUATE DIPLOMA COURSE IN TRANSMISSION & DISTRIBUTION SYSTEMS

For Official Use only

Name: \_\_\_\_\_

DD/Etransfer: \_\_\_\_\_ Rs.500/- DD No./Etransfer Details \_\_\_\_\_

► **Instruction: Use English block letters for filling application form**

1. Name(Full Name as per Matriculation Certificate): \_\_\_\_\_
2. Date of Birth (DD/MM/YY): \_\_\_\_\_
3. Branch of Engineering: \_\_\_\_\_
4. Whether GEN/SC/ST/OBC/PH/EWS: \_\_\_\_\_
5. Sponsored/Non Sponsored : \_\_\_\_\_
6. Email Address: \_\_\_\_\_
7. Mobile number: \_\_\_\_\_
8. DD Number & Date: \_\_\_\_\_
9. Aadhar Card No.: \_\_\_\_\_
10. Sex: \_\_\_\_\_
11. Fathers name: \_\_\_\_\_
12. Postal Address: \_\_\_\_\_

Affix your recent photo here.

13. Educational Qualifications (starting from 10<sup>th</sup> / 12<sup>th</sup> / Diploma/ Graduation, Stating subjects, College / Institution, % of marks, year of passing,)

Sr No	EXAMINATION PASSED	YEAR	SUBJECTS	BOARD / UNIVERSITY	PERCENTAGE OF MARKS/ GRADE	CALCULATED PERCENTAGE OF MARKS IN B.E/B.Tech. **
1	S S C					
2	HSSC					
	Dip. in Engg.					
3	B.E/ B.Tech.					

14. Are you a Sponsored Candidate? Yes No  
If Yes, please furnish the certificate given below:



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### Certificate of Sponsorship ( Company's Letter Head)

This is to certify that Mr./Ms. \_\_\_\_\_, working in this concern/organization from \_\_\_\_\_ as \_\_\_\_\_, will be sponsored by us in case he/she is selected for admission to the 26 weeks PGDC in "Transmission & Distribution Systems" for the session of March, 2017.

Signature of Employer Name :-  
Designation:-  
Address:-

Place:  
Seal:

15. Proof of Identity (attach copy)  
(Employer ID/Passport/Driving License/PAN Number, etc)
16. Any other information:  
(Offer of job in hand, continuing education, bond/liability/commitments etc.)

17. Nationality: \_\_\_\_\_.

#### 18. Declaration

The above furnished information are true to the best of my knowledge and belief. In case of anything found misleading or wrong or incomplete I agree that my candidature is liable to be rejected without any notice.

19. Signed on this \_\_\_\_\_(day) of \_\_\_\_\_(month) \_\_\_\_\_( year)

20. Place: \_\_\_\_\_ Signature of Candidate \_\_\_\_\_

21. Date : \_\_\_\_\_ Name (in full ) \_\_\_\_\_

#### **Note:** . List of Documents to be attached with the application

Attach Following documents along with the application form with Demand Draft of **Rs.500 /-** in favor of "**NPTI , Nagpur**" payable at "**Nagpur**"

1. One Passport size photo
2. 12<sup>th</sup> Certificate/SSC Certificate/Mark sheet/Diploma Final Yr. mark sheet .
3. Self Attested photocopy of qualifying degree(. B.E.Final Yr. Mark sheet ) conversion formula obtained from university in case of Grade Points.
- 4) Sponsorship Certificate, Experience Certificate, Salary Slips/Bank Statement (if applicable)
- 5) Community Certificate (if applicable)
- 6) Cast certificate (valid)

**Note: Application complete in all respects along with the self attested copies of the documents indicated must reach :-**

Head of The Institute,  
National Power Training Institute,  
South Ambazari Road, Opp. VNIT,  
Gopal Nagar, Nagpur (M.S) - 440 022

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Email:- director@nptinagpur.com, info@nptinagpur.com, nptinagpur@yahoo.com

#### **FOR OFFICE USE ONLY**

Enrolment No:

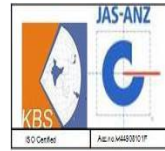
Application Fee for Rs. 500/- DD No.

Bank Name



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## 16<sup>TH</sup> BATCH (2019) – “26 Weeks POST GRADUATE DIPLOMA COURSE IN TRANSMISSION & DISTRIBUTION SYSTEMS”

### About Institute

National Power Training Institute, an ISO 9001 : 2000 and 14001 organisation, has been set up by MINISTRY OF POWER (GOVT. OF INDIA) to function as national apex body for the Human Resource Development for Indian Power Sector. It has corporate office located at Faridabad (Hariyana) and operates on all India basis.

NPTI, Nagpur established in the year 1975, is fully equipped with the latest state-of-the-art infrastructure and expert faculties having field, professional and teaching experience. NPTI Nagpur has been maintaining number one position for the last 4 years among its Regional Institutes.

### Facilities at NPTI Nagpur, \*210 MW SIMULATOR

NPTI Nagpur has well tuned, full-scope, hi-tech real time 210 MW fossil fuel fired simulator, a replica of 210 MW Unit-1 of Khaperkheda, Thermal Power Station (MSEB). The process model of the simulator is based on BHEL- CE Tangentially corner fired boiler design and KWU turbine system. It facilitates training both in the conventional mode of control room operation and also on CRT key board based unit operation.

### WHY YOU SHOULD JOIN?

The Indian Power Sector is growing very fast. The amendment in the Indian Electricity Act, have opened private sector participation in the Transmission & Distribution of Power. It has further created a large demand for the trained persons in electrical Utilities. The main objective of the course is to create a technically trained manpower readily available for recruitment to the power companies in the area of Transmission & Distribution of Electrical Power and allied industries.

On successful completion of this course, the Graduate Engineers shall be having good job opportunities and preference in employment with various power companies.

### Eligibility:

Bachelor of Engineering (B.E./B.Tech.) or equivalent in “Electrical” or “Power” Engineering or “Electrical & Electronics” or “Electronics & Power(E&P)” & its equivalent branches.

**Age limit :** No age limit.

### Final Year students can also apply,

However admissions will be subjected to passing the eligible qualification & submission of documents at the time of admission.

### Selection criteria for admission:

Percentage of marks obtained in the B.E. or equivalent examination as per University norms.

In case of universities awarding Grade Points (CGPA or equivalent), the same should be converted into percentage and the conversion formula obtained from University/College should be attached.

**No. Of seats :** 60 (Sixty only). Out of the above 25% is reserved for sponsored category. Reservation for SC, ST, OBC & PH will be as per Govt. norms in the non-sponsored category.



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### Placement:-

Many reputed companies visit NPTI for campus placement and many students from the previous batch are placed with reputed Organizations like Sterlite Grid, Bajaj Electricals, KEC International, Kalpataru Power Transmission Co., Adani Power, Suzlon, SMS Infrastructure Company, Manav Energy Pvt Ltd.Etc. however placement is not guaranteed.

### Fees :- (Sponsored Category/ Non Sponsored Category)

Non-sponsored/ Sponsored	Course Fee Rs.	GST on course fee @ 18%	Total Fees	Caution Money in Rs. (Refundable)	Total including GST	1st Installment of training fees Rs.	2nd Installment of training fees Rs.
Non-sponsored Category	145,000/-	26,100/-	1,71,100/-	3,000/-	1,74,100/-	85,550/-	85,550/-
Sponsored Category	1,90,000/-	34,200/-	2,24,200/-	3000/-	2,27,200/-	1,12,100/-	1,12,100/-

### Sponsored candidates:

The candidates sponsored by Power Utilities/Corporations/Companies and fulfilling the eligibility requirement will be admitted directly.

### Boarding & lodging charges

1. The total lodging charges is Rs. 17,700/- (15,000/- + 18% GST) for six months.
2. The Boarding/Food charge is approximately Rs.5448/-for two months, [Rs.2594/- per Month + 5%GST (129.7) = 2724/-] which is to be paid in to the NPTI, Canteen Contractor.

### General

1. Transportation charges Rs. 1416/- (1200/- + 18%) GST is to be deposited by the student at the time of joining.
2. Caution Money: An amount of Rs. 3,000/- as Caution Money (Refundable) against use of library, Hostel, Stores, etc. is to be deposited by the student at the time of joining the Institute.

### Refund policy:

A) Refund on Discontinuation of the course: In case a selected candidate discontinues from the program for any reason, no part of course fees and lodging charges will be refunded.

The boarding charges excluding taxes and the security deposit become refundable at the time of discontinuation after the dues.

B) Refund on Completion of Course: Only the Security Deposit will be refunded after deduction of dues, if any.

### How to apply

Application form as per **Annexure "A"** is to be downloaded from web site [www.nptinagpur.com/](http://www.nptinagpur.com/) [www.npti.gov.in](http://www.npti.gov.in) & filled in with relevant details. Filled in application form along with a Demand Draft of **Rs. 500/-** in favor of "**NPTI, Nagpur**" payable at "**Nagpur**", should submit in person to Director, NPTI, Nagpur or (address given below) .

Candidate should write his/her name & address, Mobile No., Email id on the reverse of the DD.

The application form complete in all respects along with the attested copies of documents listed in the application form are to be sent to the address mentioned below latest by **19.09.2019**. Incomplete applications will be rejected without any notice. NPTI shall not be responsible for any postal delay or loss of mail.



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Address for Correspondence: -

**Head of The Institute**  
**National Power Training Institute**  
South Ambazari Road, Opp. VNIT, Gopal Nagar, Nagpur (M.S) - 440 022.  
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Email:-director@nptinagpur.com , info@nptinagpur.com, nptinagpur@yahoo.com

### Important dates

Last Date for receipt of application forms in all respect	19.09.2019
Display of merit list in website www.nptinagpur.com,www.npti.gov.in	20.09.2019
Counseling & Admission	26.09.2019
Commencement of the Course	07.10.2019

### GENERAL

- Security Deposit:-** An amount of Rs.3000/- as Caution Money (Refundable) against use of Library, Hostel, Stores, etc. is to be deposited by the student at the time of joining the Institute.
- Hostel:-** No outsiders - known or relatives - shall be permitted to use hostel facilities for whole or part of the day without permission.
- Attendance:-** More than 75% attendance in Theory & Practical/Visit & Exam sessions is must. Candidates found irregular in attending training or uninterested shall not be considered for placement and/or their course completion certification will be reviewed.

#### 4. Refund Policy :

- Refund on Discontinuation of the course: In case a selected candidate discontinues from the program for any reason, no part of course fees and lodging charges will be refunded. The boarding charges excluding taxes and the security deposit will be refunded only.
- Refund on Completion of Course: Only the Security Deposit will be refunded after the deduction of dues, if any.

#### 5. Mode of Payment:

Payments must be in the form of Demand Draft/ e-transfer only in favour of "NPTI, Nagpur" payable at "Nagpur".

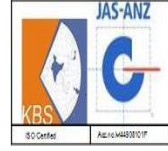
Name of the trainee & course shall be written on the backside of the DD. The bank transaction ID and date shall be sent by mail to director@nptinagpur.com , info@nptinagpur.com, nptinagpur@yahoo.com in case of e-transfers

#### 4. All the rights of admissions will rest with NPTI.



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### Bank Details for e-transfer:

Name of the Beneficiary:- National Power Training Institute (WR), Nagpur,  
Name of the Bank & Branch : State Bank of India, VRCE Branch, Nagpur,  
Address of the Branch : State Bank of India, VRCE Branch , VRCE Campus, South Ambazari Road,  
Opp. NPTI , Nagpur-440 022 (Maharashtra.)  
NEFT IFSC Code :- SBIN0006702  
Account Type:- Current  
Account No. : - 10259420040,  
MICR No. :- 440002005,

### How to reach the Institute:

The Institute is about 8 KMs south of Nagpur City Railway Station & 9 KMs Nagpur City Bus Stand and 7 KMs from Nagpur International Air Port from where Pre-paid taxi / Auto-rickshaw services are available.

**For any clarification please Contacts between 10.00 am to 6.00 pm from Monday to Friday for admission enquiry to**

Shri..P.P.Mawle - 8600260109 or Shri.S.R.Titoniya - 9890102276 or write the query on [director@nptinagpur.com](mailto:director@nptinagpur.com),  
[info@nptinagpur.com](mailto:info@nptinagpur.com), [nptinagpur@yahoo.com](mailto:nptinagpur@yahoo.com)

**FIFTY YEARS OF SERVICE TO POWER SECTOR**



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## ANNEXURE – “B”

### 16<sup>th</sup> Batch – 26 WEEKS POST GRADUATE DIPLOMA COURSE IN TRANSMISSION & DISTRIBUTION SYSTEMS

#### Check list for documents required for admission

Counseling Round:

Sponsored/Non-sponsored:

Date:

Category: GEN/OBC/SC/ST/PH:

Merit No.:

Name: \_\_\_\_\_ B.E./B.Tech. Degree BRANCH: \_\_\_\_\_

Arrange the Certificates (Original) and the Xerox (1 set) in the following order and produced for verification. (Strike out whichever is not applicable)

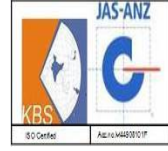
Sr. No	Name of Documents	Tick (Yes / Na )	Signature (Candidate)	Remark
<u>1</u>	DD. drawn in favor of NPTI, Nagpur payable at Nagpur. As per fees details (see fees structure) or RTGS/NEFT Fees payment copy			
	a. Demand Draft of Rs. 1,71,100/- (Rs.145,000/- + GST@18%)(Total fees for Non sponsored candidate)			
	b. Demand Draft of Rs. 85,550/- (First Installment of fees)			
	c. Demand Draft of Rs. 2,24,200/- (Rs.1,90,000/- + GST@18%) (Total fees for Sponsored candidate)			
	d. Caution Money – Rs. 3000/-			
	e. Transportation charges Rs. 1416/- (1200/- + 18%) GST			
	f. Hostel Charges for 6 months Rs. 17,700/- (15,000/- + 18% GST)			
	g. Three months hostel /Mess charges(Food Charges) – [Rs.2594/- per Month + 5%GST (129.7)] = Rs. 2724/-x3 = Rs.8172/-			
	h. Placement Charges Rs. 17,700/- (15,000/- + 18% GST)			
<u>2</u>	Matriculation Certificate including date of birth			
<u>3</u>	HSSC/ Diploma in Engineering , Certificate & Mark sheet			
<u>4</u>	B.E./B.Tech.- Degree Provisional/Original Certificate			
<u>5</u>	B.E./B.Tech.- Final Mark Sheet – (Including Degree Percentage or Marks obtained for award of Degree)			
<u>6</u>	For Final year students, pass certificate issued by Principal of college along with all semester Mark Sheet copies			





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Email:- [director@nptinagpur.com](mailto:director@nptinagpur.com) , [info@nptinagpur.com](mailto:info@nptinagpur.com), [nptinagpur@yahoo.com](mailto:nptinagpur@yahoo.com)

<u>7</u>	In case of CGPA/DGPA/SGPA/CPI/SPI/GPA (Graduation)- Calculated Degree percentage (Furnish a copy of conversion formula from Register or Controller of Examination of the concerned University to calculate Degree Percentage)			
<u>8</u>	Caste Certificate SC/ST/OBC			
<u>9</u>	Valid OBC Non-Creamy Layer Certificate during 2019-20			
<u>10</u>	Undertaking			
<u>11</u>	For Physically Handicap candidates - Valid PH certificate			
<u>12</u>	For Sponsored candidate 1. Copy of appointment letter 2. Sponsorship letter/ Certificate from employer			

Note: All claims regarding Degree Percentage/Caste/PH must be supported by valid documentary proof.

Signature of candidate

Accepted / Rejected (reasoned there off)

Verified by:

Course Director



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ANNEXURE – “C”

### 16<sup>th</sup> Batch – 26 WEEKS POST GRADUATE DIPLOMA COURSE IN TRANSMISSION & DISTRIBUTION SYSTEMS

Check list for documents required for admission at counseling

#### Fees paid details

Sr. No	DD drawn in favor of NPTI, payable at VRCE Nagpur	Applicability/ attached details (YES/NA) RTGS/NEFT details of Fees Transfer (Attach separate proof)	Remark (Office Use)
1	<b>Training fees for non-sponsored candidates</b> Demand Draft of Rs. 1,71,100/- (Rs. 145000/- + Service GST@18%) or RTGS / NEFT Details of Fees Transfer (Attach separate proof)	DD No. Bank Name:  Date:	
2	Caution Money – Rs 3000/- RTGS/NEFT details of Fees Transfer (Attach separate proof)	DD No. Bank Name: Date:	
3	<b>First installment of training fee for non-sponsored candidates.</b> Demand Draft of Rs. 89,966/- (Rs. 85,550/- + Rs.1,416/- + Rs. 3,000/-) <b>Note:</b> Second installment Rs.85,550/- of training fee to be paid on or before 31/01/2020	DD No. Bank Name: Date: Or RTGS/NEFT details	
4	<b>Single installment of training fee for sponsored candidates</b> Demand Draft of Rs. 2,27,200/- (Rs. 1,90,000/- + Service GST@18% + 3,000/-)	DD No. Bank Name: Date RTGS/NEFT details	
5	Transportation charges – Rs. 1416/- (Rs. 1200/- + GST@18%)	DD No. Bank Name: Date Or RTGS/NEFT details	
6	Hostel charge for 6 months = Rs. 17700/- (Rs.2500/- p. m. x 6 = Rs. 15000/- + GST@18%) (If require & allotted)	DD No. Bank Name: Date Or RTGS/NEFT details	

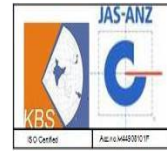
Signature of candidate  
Course Director  
Director

Received (Signature)  
JAO/ Account Section



# NATIONAL POWER TRAINING INSTITUTE

(Ministry of Power, Govt. of India)  
(An ISO 9001:2015 & ISO 14001:2015 Organization)  
South Ambazari Road, Gopal Nagar,  
**Nagpur- 440 022 (Maharashtra)**



www.npti.gov.in /www.nptinagpur.com, Ph.: 0712-2226176, 2236545, 2231478  
Email:- director@nptinagpur.com , info@nptinagpur.com, [nptinagpur@yahoo.com](mailto:nptinagpur@yahoo.com)

## SYLLABUS

### 1. GENERAL INTRODUCTION

**Power Generation** : Thermal, Hydro, Nuclear and Gas ,Renewable Energy Sources  
Generation, Transmission & Distribution Scenario of India.

**Types of generation:** Conventional and Renewable, Thermal Power Plant, Hydro Power Plant, Gas Power Plant, Nuclear Power Plant, Co-generation.

### 2. Power Transmission Line Engineering

EHV Transmission system in India, Tower types, Conductors, Earth wire, Insulators, Statutory clearances, Surveying, Route Alignment, Tower erection, Tower Testing, Stringing, Transmission Line Commissioning, Maintenance of transmission line, Thermo vision scanning, Hot line maintenance.

### 3. EHV Substation Planning & Engineering

Substation Planning, Site selection, Layout of substation & Civil works, Selection of main equipment, Selection of switchgear, Electrical clearances, Instrument transformers-selection & Performance, Control & Instrumentation in Substations, Substation auxiliaries, Substation grounding practices, Demo on grounding.

### 4. Power System Studies

Power System Modelling, Load flow studies, Tutorial on load flow studies, Study state fault analysis, Tutorial on Fault Analysis, Transient stability studies, Relay Co-ordination studies, Tutorials, EMTP Studies.

### 5. High Voltage Testing of Power System Equipment

Philosophy of HV Testing, Generation and Measurement of HVs, Testing of Power Transformers, Testing of Insulators, Testing of Surge Arrestors, Testing of Switchgear, Testing of Transformer oil, Dissolved Gas Analysis, Partial Discharges.

### 6. Power System Protection

Overview of Power System Protection, CTs and PTs, Generator Protection, Transformer Protection, Transmission Line Protection - distance schemes, Transmission line protection - unit schemes, Bus Bar Protection, Motor Protection, Over voltages in Power Systems, Protection against over voltages, Insulation Co-ordination

### 7. Operation and Maintenance of EHV Substation Equipment

Transformers-Construction, Connections, Tap Changing Mechanism & Parallel Operation, Testing and Protection of transformers, O&M of Transformers, Selection, Sizing, performance Analysis of HV Circuit Breakers, Transformer Neutral Earthing, O&M of HV Circuit Breakers, Operation and Maintenance of Distribution Transformers, Operation and Maintenance of Distribution Switchgear.

### 8. HVDC Transmission Systems

Introduction to HVDC Transmission, Principles of HVDC Conversion, HVDC Lines, HVDC Sub Stations, Reactive Power Management in HVDC Stations, AC & DC harmonics and filtering, HVDC System operation, control and maintenance, HVDC Protection, Insulation Coordination, Emergencies and case studies

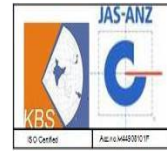
### 9. Distribution System Engineering

Distribution systems overview, Planning, Design and selection of pole structures conductors insulators etc., Pole erection, conductors stringing, Layout of earth wire, neutral wire guarding, jointing of conductors, jumpering etc.;



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Location, construction and erection of pole mounted sub stations; Selection, fixing of switches, fuses etc.; Operation & Maintenance of Distribution Lines.

## 10. O & M of Distribution Substations and Distribution Metering

Distribution Substation - types, layouts, bus bar arrangements; Selection of Distribution sub station equipment, Distribution substation relay schemes, O&M of Relay schemes, Substation Operation overview, Code of practice in Sub Station Operations, Work permits, line clear procedure, Maintenance of log books, Records etc., Distribution Substation Operation - Case studies; Types, design and construction of distribution meters, Failure analysis of Distribution Meters.

## 11. Power Cables and Jointing Techniques

Power Cable - Design, Construction, Testing, Operation & Maintenance; Trouble shooting of Power Cables; LT and HT Cable jointing, Termination and Accessories;  
Cable fault detection and repair; Demo on LT & HT Power cable jointing - End joint & Straight through joint.

## 12. Communication in Power Systems

Communication systems: PLCC, Microwave, Leased lines, OPF, Satellite, Power Line Carrier Communication, Optical fibre communication, Satellite communication, Planning and selection of communication systems, Trends in communication, Telemetry, Tele control and Tele protection

## 13. Power system Operation - Active and Reactive Power Despatch, SCADA, AGC & ED

Functions of Load Despatch Centres, Supervisor control & Data requisition, Load forecasting, generation scheduling, load management & load shedding, Energy management system functions, Voltage and frequency control, Grid Disturbances-Case Studies, State estimation, Security and contingency analysis, Voltage and frequency control, Automatic Generation Control and economic dispatch, Application of SCADA in power systems, Application of EMS in power systems.

## 14. Power Market Regulations

Introduction to commercial aspects of transmission and distribution, Tariff structure, types, method of working out, revenue realization, Regional energy accounting, Inter-utility tariff, commercial disputes and solutions. Availability based tariff and open access. TTC, ATC, Reliability Margin, Tariff Regulations, Open Access, RES Integration, Point of Connection Charges, Congestion Charge Regulations, Regional Energy account, Power exchanges

## 15. Electrical Safety and Statutory Regulations

Safety Requirement, Hazards, Electrical Accidents and prevention, First Aid, Fire fighting Types of fire, fire fighting/system, fire extinguishers

## 16. Labs: Dispatcher Training Simulator, Relay Testing, Power System Studies, HV Testing, Instrumentation, Switchgear Labs

## 17. Technical Visits: Sub-stations, Transmission Lines, Power Plants, Manufacturing units, Testing Centres, etc.