

# **Dates have been Revised**

**Job oriented Program**  
**POST GRADUATE DIPLOMA COURSE**  
**IN**  
**TRANSMISSION & DISTRIBUTION SYSTEMS**  
**(26 Weeks)**  
**XXVI BATCH (January, 2019)**

## **PROSPECTUS**



## **NATIONAL POWER TRAINING INSTITUTE**

**(Ministry of Power, Govt. of India)**

**(An ISO 9001:2015 & ISO 14001:2015 Organization)**

**Power Systems Training Institute**

Subramanyapura Road, Near Yarab Nagar Bus Stop,  
Banashankari II Stage, Bangalore- 560 070  
(KARNATAKA) INDIA

**TELEFAX: 080 26713758**

**E-mail : [pstinpti@yahoo.com](mailto:pstinpti@yahoo.com)**

**TEL: 080-26934369**

**Website : [www.nptibangalore.in](http://www.nptibangalore.in)  
[www.npti.gov.in/npti\\_psti\\_bangalore](http://www.npti.gov.in/npti_psti_bangalore)**



**Announces XXVI Batch of**

**26 WEEKS POST GRADUATE DIPLOMA COURSE IN  
 TRANSMISSION & DISTRIBUTION SYSTEMS**

**WHY YOU SHOULD JOIN?**

The Indian Power Sector is undergoing structural, technological and institutional changes due to reforms and regulations. Apart from these, major changes have been introduced in the Power Sector through private participation. This has further created a large demand for the trained persons in Electrical Utilities.

To meet the demand of trained manpower for Power Industry, NPTI-PSTI, Bangalore has started a job oriented **Post Graduate Diploma Course** for those who desire to make a career in the power sector. On successful completion of this course, the Graduate Engineers will find immense opportunities of employment in Indian Power Sector.

**ABOUT THE COURSE**

The course content complies with the syllabus for Engineers and Supervisors for Operation & Maintenance of Transmission & Distribution Systems as per Safety and Electric Supply Regulations 7(3) of Govt. of India. **This course has approval of Central Electricity Authority(CEA), GOI.**

The instruction and training methodology comprises 60% theory and 40% practical Sessions. The main objective of the course is to create a technically and professionally trained manpower available for the Power Industry.

**PLACEMENT**

Organizations like Sterlite Grid, Bajaj Electricals, Wind World India Ltd., Arcadis, Toshiba Transmission and Distribution, JVS Electronics, National Contracting Company-UAE, Atkins Global, KEC, Kalpataru Power Transmission Co., Adani Power, Kalkitech, Suzlon, Genus Power & Infrastructure Company, Manav Energy Pvt Ltd, Oblum Electric, Vijay Electricals, Teems India Towerlines Pvt. Ltd., Open Systems International, Schweitzer Engineering Lab Pvt. Ltd., Manikaran Power Etc. conduct campus recruitment at PSTI.

**IMPORTANT DATES (Revised)**

Issue of Prospectus	<b>1<sup>st</sup> Oct., 2018</b>
Last Date for receipt of application forms in all respect	<b>17<sup>th</sup> Dec., 2018</b>
Display of merit list in website	<b>21<sup>st</sup> Dec., 2018 (5PM)</b>
Counseling & Admission	<b>31<sup>st</sup> Dec., 2018 &amp; 01<sup>st</sup> Jan., 2019</b>
Commencement of the Course	<b>2<sup>nd</sup> Jan., 2019</b>

**IMPORTANT POINTS**

✓ **ELIGIBILITY:** Bachelor of Engineering or equivalent in "Electrical" or "Electrical & Electronics" or "Power Engineering".

✓ **AGE LIMIT:** No age limit.

✓ **SELECTION CRITERIA FOR ADMISSION:** Percentage of marks obtained in the B.E. or equivalent examination as per University norms.

✓ **NO. OF SEATS:** 60 (Sixty only). 25% seats are reserved for sponsored category. Reservation for SC, ST, OBC & PH will be as per Govt. norms in the non-sponsored category.

✓ **FEES:**

- Rs. 1,45,000 + 18% GST
- Rs. 27,000/- Hostel charges for residential candidates and canteen charges will be as per actual.

Education Loans are provided by Nationalised Banks to eligible candidates (Terms and conditions apply) Course Fee can be paid in 2 instalments.

✓ **SPONSORED CANDIDATES:** The candidates sponsored by the companies, if fulfilling eligibility requirement, will be admitted directly as per the terms and conditions.

✓ **HOW TO APPLY**  
 Download the Application form from our website and send it as directed in the application along with a crossed DD of Rs 500/- in favour of **"PSTI, Bangalore"**

**ADDRESS FOR CORRESPONDENCE**

Head of Institute  
**National Power Training Institute**  
**Power Systems Training Institute**  
 Subramanyapura Road, Banashankari-II Stage,  
 Near Yarab Nagar Bus stop, Bangalore-560 070  
 Fax: 080-26713758  
**Tel. 080- 26934369,26934352**  
 Email : [pstinpti@yahoo.com](mailto:pstinpti@yahoo.com)  
 Website : [www.nptibangalore.in](http://www.nptibangalore.in)  
[www.npti.gov.in/npti\\_psti\\_bangalore](http://www.npti.gov.in/npti_psti_bangalore)

## ABOUT NPTI, BANGALORE

Power Systems Training Institute (PSTI), Bangalore is conducting high quality training courses in various facets of Transmission & Distribution since 1972. It is an established name in the Indian power sector. PSTI is located in its own 18-acre campus with office buildings, Laboratories, hostels, Guest house, Canteens and Residential colony. During the last **45** years, the Institute has trained many power sector personnel in the area of Transmission & Distribution of Power, who are manning various important positions in Power Sector of the Country. The PSTI, Bangalore is equipped with the laboratories for Power System Studies, Power System Simulation, Relay Testing and High Voltage Testing etc. The Hot Line Training Center, also a unit of NPTI in Bangalore, imparts live line maintenance training of High Voltage transmission lines up to 400KV. The Institute has experienced Faculty Members and Trainers.

## WHY YOU SHOULD JOIN?

Power Sector is a continuously expanding sector of Indian infrastructure contributing significantly to the GDP. The Indian Electricity Act, 2003 has opened private sector participation in the Transmission & Distribution of Power creating a large demand for the trained persons in Electrical Utilities.

The main objective of the course is to create technically sound and trained manpower readily available for recruitment to the power utilities dealing with Transmission & Distribution of Electrical Power.

This is a job oriented **Post Graduate Diploma Course** for those who desire to make a career in the power sector. On successful completion of this course, the Graduate Engineers will get their knowledge and skills sharpened, paving the way for better employment opportunity in various power companies.

## ABOUT THE COURSE:

The course content complies with the syllabus for Engineers and Supervisors for Operation & Maintenance of Transmission & Distribution Systems as per Safety and Electrical Supply Regulations 7(3) of Govt. of India.

### Course Structure of 26 weeks “Post Graduate Diploma Course In Transmission and Distribution Systems”

SI. No.	Module	No of weeks
1	General Introduction	0.4
2	Power Generation -Thermal, Hydro, Nuclear and Gas	1.0
3	Renewable Energy Sources	1.0
4	Power Transmission Line Engineering	2.0
5	EHV Substation Planning & Engineering	1.0
6	Power System Studies	1.0
7	High Voltage Testing of Power System Equipment	1.0
8	Power System Protection	1.4
9	Operation and Maintenance of EHV Substation Equipment	1.0
10	HVDC Transmission Systems	1.0
11	Distribution System Engineering	1.0
12	O & M of Distribution Substations and Distribution Metering	1.2
13	Power Cables and Jointing Techniques	0.6
14	Communication in Power Systems	0.4
15	Power system Operation - Active Power Control, Reactive Power Management, SCADA, Automatic Generation Control and Economic Despatch	2.0
16	Power Market Regulations- TTC, ATC, Reliability Margin, Tariff Regulations, Open Access, REC, RES Integration, Point of Connection Charges, Congestion Charge Regulations, Regional Energy account, Power exchanges	1.0

17	Electrical Safety and Statutory Regulations	0.4
18	Labs: Despatcher Training Simulator, Relay Testing, Power System Studies, HV Testing Lab.	4.0
19	Technical Visits- Sub-stations, Transmission Lines, Power Plants, Manufacturing units, Testing Centres, etc	2.2
20	Live Line Maintenance Techniques at HLTC	1.0
21	Soft skills-Communication skills, Personality Tests, Group Discussions, Leadership and team building	1.4
<b>Total No. of Weeks</b>		26.0

## PLACEMENT:

NPTI maintains close linkage with companies. Placement assistant will be provided by the Institute. The previous trainees got placement in Sterlite Grid, Bajaj Electricals, Wind World India Ltd., Toshiba Transmission and Distribution, JVS Electronics, National Contracting Company, Atkins Global, Easun Reyrolle Ltd, KEC (International & Domestic), Kalpataru Power Transmission Co. (International & Domestic), Adani Power, Kalkitech, Suzlon, Genus Power & Infrastructure Company, Manav Energy Pvt Ltd, Oblum Electric,. Teems India Towerlines Pvt. Ltd., Open Systems International, Arcadis, Schweitzer Engineering Lab Pvt. Ltd., Manikaran Power Etc.

However, the placement depends on the response from the Industry and performance of the trainees.

### Placement Data for last Ten Batches

Batch No.	Period of Training	% of Placement
XIX	01.06.2015 - 27.11.2015	85
XX	18.01.2016 - 15.07.2016	61
XXI	08.08.2016 - 03.02.2017	91.5
XXII	06.03.2017 - 01.09.2017	81.5
XXIII	11.09.2017 – 09.03.2018	86.95
XXIV	02.04.2018 – 02.10.2018	76.2

## ELIGIBILITY:

Bachelor of Engineering or equivalent in “**Electrical**” or “**Electrical & Electronics**” or “**Power Engineering**”

## AGE LIMIT:

No age limit.

## 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) Reservation for SC, ST, OBC & PH will be as per Govt. norms in the non-sponsored category.

## FEES: (Non-sponsored Category)

Residential/ Non-Residential	Course Fee	GST on course fee @ 18%	Lodging Charges (Optional)	Caution Money (Refundable)	Placement Fee (including tax) To be paid if the trainee get recruited through Campus Recruitment	Total including GST	1st Installment (INR)	2nd Installment
Residential	1,45,000	26,100	27,000	15,000	15,000*	2,13,100	<b>1,30,500</b>	<b>82,600</b>
Non-residential	1,45,000	26,100	0	15,000	15,000*	1,86,100	<b>1,03,500</b>	<b>82,600</b>

**\*Not to be paid during admission**

### SPONSORED CANDIDATES:

The candidates sponsored by Power Utilities/Corporations/Companies and fulfilling the eligibility requirement will be admitted directly may contact the office for information.

### HOW TO APPLY:

Application form along-with prospectus can be obtained from the Institute by paying cash or at the following address by post sending A4 size self-addressed envelope along with a **Crossed Demand Draft for Rs. 500/- in favour of "PSTI, Bangalore"**.

**OR**

Download the Application form from our website and send it as directed in the application along with an **E-Transfer receipt/DD of Rs 500/- drawn in favour of "PSTI, Bangalore"**.

The application form complete in all respects along with the attested copies of documents listed in the application form are to be sent or submitted in person to the address mentioned below latest by **17<sup>th</sup> December, 2018**. NPTI shall not be responsible for any postal delay or loss of mail.

### ADDRESS FOR CORRESPONDENCE:

Head of Institute

**National Power Training Institute**

**Power Systems Training Institute**

Subramanyapura Road, Banashankari-II Stage,

Near Yarab Nagar Bus Stop, Bangalore-560 070

Fax: 080-26713758

**Tel. 080- 26934369, 26934352**

Email : [pstinpti@yahoo.com](mailto:pstinpti@yahoo.com)/ [pstinpti.training@gmail.com](mailto:pstinpti.training@gmail.com)

Website: [www.nptibangalore.in/](http://www.nptibangalore.in/) [www.npti.gov.in/npti\\_psti\\_bangalore](http://www.npti.gov.in/npti_psti_bangalore)

### IMPORTANT DATES

Issue of Prospectus	<b>1<sup>st</sup> October, 2018</b>
Last Date for receipt of application forms in all respect	<b>17<sup>th</sup> December, 2018</b>
Display of merit list in website <a href="http://www.nptibangalore.in/">www.nptibangalore.in/</a> <a href="http://www.npti.gov.in/npti_psti_bangalore">www.npti.gov.in/npti_psti_bangalore</a>	<b>21<sup>st</sup> December, 2018 (5PM)</b>
Counseling & Admission	<b>31<sup>st</sup> December,2018 &amp; 01<sup>st</sup> January, 2019</b>
Commencement of the Course	<b>2<sup>nd</sup> January, 2019</b>

## BOARDING & LODGING

1. The total lodging / Hostel charges of Rs. 27,000/- including GST for six months are to be paid in advance at the time of admission by the residential participants.

## GENERAL

1. **Security Deposit:** An amount of Rs. 15,000/- 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.
2. **Hostel:** No outsiders – known or relatives – shall be permitted to use hostel facilities for whole or part of the day.
3. **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.
4. **Late Fee:** If a candidate fails to deposit any installment of course fee by the due date, late fee @ Rs. 100/- per week will be chargeable from the due date.
5. The right of admission will rest with NPTI. Candidates found irregular in attending training or uninterested shall not be considered for placement and/or their course certification will be reviewed.

## Mode of Payment:

- Payments must be in the form of **e-transfer / DD** only in favour of **Power Systems Training Institute payable at Bangalore.**
- 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 [pstinpti@yahoo.com](mailto:pstinpti@yahoo.com)/[pstinpti.training@gmail.com](mailto:pstinpti.training@gmail.com) in case of e-transfers.

## Bank Details in case of e-transfer:

- Name of the Beneficiary : Power Systems Training Institute, Bangalore
- Name of the Bank & Branch : State Bank of India, Banashankari II Stage Branch
- Address of the Branch : 9<sup>th</sup> Main Road, Banashankari-II Stage, Bangalore: 560070
- NEFT IFSC Code : SBIN0006767
- Account Type : Current
- Account No. : 10031210203
- MICR No. : 560002008
- RTGS IFSC Code : SBIN0006767
- GSTN: : 29AAALN0083C17B
- Pan No.: : AAALN0083C
- Tan No: : BLRP00338C
- SAC (Service Accounting Code) : Commercial Training 999293

**Note: PSTI is a non-profit making educational institute. It does not come within the purview of I.T Act for deduction of tax at source vide 10(23C) (iii ab) of I.T Act 1961. Hence no tax deductions at source shall be done against PSTI payments. TAN No: BLR P00338C; PAN No: AAALN0083C.**

## HOW TO REACH THE INSTITUTE:

The Institute is about 10 KMs south of Bangalore City Railway Station/Bangalore City Bus Stand and 45 KMs from Bangalore International Air Port from where Pre-paid taxi / Auto-rickshaw services are available. City buses also ply via Yarab Nagar bus stop (bus route Nos. 15C, 15E, 15H, 210A, 210R and 210E from Bangalore City Bus Station).

## Laboratory Facilities at PSTI



### **Automatic Capacitance and Tan Delta Test Set** **Brand: Eltel**

Power Factor testing of electrical insulation is one of the most recognised and highly regarded procedures in both preventive maintenance process and manufacturing of electrical power apparatus. The power factor of the electrical insulation, the ratio of power loss to volt-ampere is a measure of the quality of the insulation.

### **Insulation Resistance Tester** **Brand: Megger**

Insulation testing as part of a predictive/preventive electrical maintenance program is becoming increasingly rigorous and demanding. The MIT1020/2 is a microprocessor controlled 10 kV insulation tester offering measurement capabilities of upto 35 terra ohms



### **BDV of Oil Test Set**

The Dielectric Strength of different samples of Transformer oil can be tested with the help of this 100 kV Oil Test Set.

### **HIGH VOLTAGE LABORATORY**

The High Voltage Laboratory is equipped with a 280 kV Impulse Voltage Generator set up, comprising of a 220V/100kV HV transformer, Rectifier, Impulse Capacitors, measuring capacitors and resistors.





## POWER SYSTEM STUDIES

**Brand: Mi-Power**

Studies such as Load Flow Analysis, Short Circuit Studies, Transient Stability Studies and Relay Co-ordination Studies can be conducted.

**Brand: NEPLAN from ABB Ltd.**

Transmission and Distribution Planning Studies.

**Brand: Mi Ecodial from Schneider India Ltd.**

Distribution System Design and Analysis.



## Despatcher Training Simulator (DTS)

A Despatcher Training Simulator is in service at Power Systems Training Institute (PSTI), Bangalore since March 2011. The Simulated Network comprises of about **1100 stations** and **3000 buses** with generation voltages and 110kV and above network. **The actual network of National Load Despatch Centre is simulated in the DTS.**

## RELAY TESTING LAB

The Relay testing lab in PSTI is equipped with different types of relays like:

**1. Electromechanical Relays:** Over current Protection, Earth fault protection, Distance Protection

**2. Solid State Relays:** Distance Protection or Transmission Line, Differential Protection, Over current Protection, Restricted earth fault Protection

**3. Numerical Relays** (Microprocessor based Relay). : Over current Protection, Earth fault protection, Over/Under frequency protection, Differential Protection, Generator Protection, Motor Protection, Distance Protection





Serial No.

**APPLICATION FORM**

**Post Graduate Diploma Course in  
TRANSMISSION & DISTRIBUTION SYSTEMS; Batch XXVI**

**SESSION January 2019**

For Official Use only

Name: _____
DD/Cash: _____
Sl.No.: _____

Paste Passport sized photograph
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1. Full Name of the candidate (In Capital Letters) : \_\_\_\_\_

2. Father's Name : \_\_\_\_\_

3. Date of Birth (in Christian Era) (as given in 10<sup>th</sup>/SSLC/SSC)

Date		Month		Year		

4. Sex (mark ✓)

Male	Female
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5. Marital Status (mark ✓)

Single	Married
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6. Nationality

7. Category (mark ✓)

SC	ST	OBC	PH	GEN	SPONSORED
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8. Address for communication

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PIN CODE						
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Telephone No. \_\_\_\_\_

E-mail ID: \_\_\_\_\_

9. Permanent address

(if different from above)

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PIN CODE						
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10. Educational Qualifications (Starting from highest qualification)

Sl. No.	Examination passed	Branch/ Subject	Year of passing	College/ University	Percentage of marks/class (as per University norms)
1.					
2.					
3.					
4.					

Self Attested photocopy of qualifying degree, mark sheet and proof of date of birth are to be sent along with application form.

11. Experience after Graduation (if any)

Sl. No.	Designation	Name of organization	Period of Employment		Nature of duties
			From	To	
1.					
2.					

12. Proof of Identity (attach copy)

(Employer ID/Passport/Driving License/PAN Number, etc)

13. Any other information:

(Offer of job in hand, continuing education, bond/liability/commitments etc.)

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

- Application fee of Rs. 500/- in the form of a crossed DD in favour of PSTI, Bangalore (In case the application is downloaded from website)
- One Passport size photo
- Self Attested photocopy of qualifying degree and age
- Self Attested photocopy of Mark sheet of the qualifying degree & conversion formula obtained from university in case of Grade Points.
- Sponsorship Certificate, Experience Certificate, Salary Slips/Bank Statement (if applicable)
- Community Certificate (if applicable)

**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.

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

Place:

Signature of Candidate \_\_\_\_\_

Date:

Name (in full) \_\_\_\_\_

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

**The Head of Institute,  
National Power Training Institute,  
Power System Training Institute,  
Near Yarabnagar Bus stop,  
Banashankari II stage,  
Bangalore 560 070**

on or before **17.12.2018**

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**FOR OFFICE USE ONLY**

Enrolment No:

Application Fee for Rs. 500/- DD No.

Bank

Branch Code

Type of Candidature

Non-Sponsored

Certificate Proof attached:

Age

Yes

No

Qualification

Yes

No

SC/ST/OBC

Yes

No

NA

Sponsorship

Yes

No

NA

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