

Job oriented Program
POST GRADUATE DIPLOMA COURSE
IN
SMART GRID TECHNOLOGIES

(52 Weeks)
II BATCH (2022)

PROSPECTUS



NATIONAL POWER TRAINING INSTITUTE

(Ministry of Power, Govt. of India)

(An ISO 9001:2008 & ISO 14001:2004 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

TEL: 080-26934369

Website : www.nptibangalore.in



NATIONAL POWER TRAINING INSTITUTE
Power Systems Training Institute
 (An ISO 9000:2000 & ISO 14001 Organization)
 Ministry of Power, Govt. of India
 BANGALORE-560 070



Announces II Batch of

**52 Weeks Post Graduate Diploma Course in
 SMART GRID TECHNOLOGIES**

WHY YOU SHOULD JOIN?	IMPORTANT POINTS										
<p>The Indian Power Sector is changing substantially in its institutional arrangements for its regulation as well as the structure. Major changes have been introduced in the Power Sector through private participation, reforms, restructuring, apart from technological, and perception changes that are also taking place simultaneously. It has further created a large demand for the trained persons in Electrical Utilities.</p> <p>This is a job oriented Graduate Engineer Program for those who desire to make a career in the power sector. On successfully undergoing this course the Graduate Engineers will find immense opportunities of employment in Indian Power Sector.</p>	<ul style="list-style-type: none"> ✓ ELIGIBILITY: B.Tech. / B.E. or its equivalent with minimum 60% marks in Electrical/ Electrical & Electronics/ Electronics & Communication / C&I / Computer Science / Information & Communication Technology / IT and related branches ✓ 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. 										
<p>ABOUT THE COURSE</p> <p>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.</p> <p>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.</p>	<ul style="list-style-type: none"> ✓ FEES: <ul style="list-style-type: none"> • Rs. 2,30,000/- (Inclusive of GST) • Rs.54,000/- is Hostel room charges for residential candidates and canteen charges will be as per actual. <p>Education Loans are provided by Nationalised Banks to eligible candidates (Terms and conditions apply) Course Fee can be paid in two instalments.</p> ✓ SPONSORED CANDIDATES: The candidates sponsored by the companies, if fulfilling eligibility requirement, will be admitted directly ✓ 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” 										
<p>PLACEMENT</p> <p>Recruiters at NPTI include Atkins, Arcadis, Adani, Sterlite, Toshiba, OSII, Manav Energy, Suzlon, Fortum, Indigrd, OSII, Wiztric Technologies Pvt. Ltd., Fortum etc.</p>	<p>ADDRESS FOR CORRESPONDENCE</p> <p>Head of Institute National Power Training Institute- PSTI, Subramanyapura Road, Banashankari-II Stage, Near Yarab Nagar Bus stop, Bangalore-560 070</p> <p>Tele-Fax: 080-26713758 Tel: 9900097375, 9741811574 Email : pstinpti.training@gmail.com piyali.npti@gov.in</p> <p>To download the prospectus and application form visit: www.nptibangalore.in www.npti.gov.in/npti_psti_bangalore/</p>										
<p>IMPORTANT DATES</p> <table border="1"> <tr> <td>Issue of Prospectus</td> <td align="center">21.02.2022</td> </tr> <tr> <td>Last Date for receipt of application forms in all respect</td> <td align="center">21.03.2022</td> </tr> <tr> <td>Display of merit list in website</td> <td align="center">22.03.2022</td> </tr> <tr> <td>Counseling & Admission</td> <td align="center">23.03.2022 Onward</td> </tr> <tr> <td>Commencement of the Course</td> <td align="center">28.03.2022</td> </tr> </table>	Issue of Prospectus	21.02.2022	Last Date for receipt of application forms in all respect	21.03.2022	Display of merit list in website	22.03.2022	Counseling & Admission	23.03.2022 Onward	Commencement of the Course	28.03.2022	
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ABOUT NPTI, BANGALORE

Power Systems Training Institute, Bangalore, established in the year 1972 (formerly functioning under CEA) has been brought under the National Power Training Institute (NPTI); the National Apex Body for Training Power Sector Personnel in the country w.e.f. 1st April 2002. During the last **50** 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. It has a self-contained complex with hostel and Institute with all infrastructural and instructional facilities. The PSTI, Bangalore is equipped with the laboratories for Power System Studies, Power System Simulation, Relay Testing and High Voltage Testing. 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 Institutes have experienced Faculty members, Trainers, Laboratories, etc.

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 **Graduate Engineer Program** 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.

PLACEMENT:

NPTI maintains close linkage with companies. Placement assistant will be provided by the Institute. Recruiters at NPTI include Atkins, Arcadis, Adani, Sterlite, Toshiba, OSII, Manav Energy, Suzlon, Fortum, Indigrid, OSII, Wiztric Technologies Pvt. Ltd., Fortum etc. However, the placement depends on the response from the Industry and performance of the trainees.

ELIGIBILITY:

Engineering graduates in all circuit branches with 60% and above are all eligible

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 (including GST)	Lodging Charges (Optional)	Caution Money (Refundable)	Total
Residential	2,30,000	54,000	15,000	2,99,000
Non-residential	2,30,000	0	15,000	2,45,000

1st Installment

Residential/ Non- Residential	Course Fee (including GST)	Lodging Charges (Optional)	Caution Money (Refundable)	Total
Residential	1,15,000	27,000	15,000	1,57,000
Non-residential	1,15,000	0	15,000	1,30,000

2nd Installment

Residential/ Non- Residential	Course Fee (including GST)	Lodging Charges (Optional)	Total
Residential	1,15,000	27,000	1,42,000
Non-residential	1,15,000	0	1,15,000

SPONSORED CANDIDATES:

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

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 alongwith 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 a crossed DD of Rs 500/- 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 **21.03.2022**. NPTI shall not be responsible for any postal delay or loss of mail.

Address for Correspondence

Head of Institute

National Power Training Institute-PSTI,

Subramanyapura Road, Banashankari-II Stage,

Near Yarrab Nagar Bus stop, Bangalore-560 070

Dr.K.S.S.Ravikumar, Deputy Director, M: 9448360966

Fax: 080-26713758

Tel. 080-26713758, 26934369

Email: pstinpti@yahoo.com, pstinpti.training@gmail.com

Website www.nptibangalore.in

IMPORTANT DATES

Issue of Prospectus	21.02.2022
Last Date for receipt of application forms in all respect	21.03.2022
Display of merit list in website www.nptibangalore.in	22.03.2022
Counseling & Admission	23.03.2022
Commencement of the Course	28.03.2022

BOARDING & LODGING

1. The total lodging charges of Rs. 54,000/- for twelve months are to be paid in two installments by 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.

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).

SYLLABUS

Sl.No.	Subject/Module	Duration (Weeks)
1	Evolution of Indian Power Sector	1
2	Legislative & Regulatory Framework	2
3	Managerial and Interpersonal Skills	2
4	Communication skills and Technical Writing	2
5	Smart Grid Policy and Regulations	2
6	Introduction to Traditional Power Systems	3
7	Introduction to Smart Grids	2
8	Smart Grid Control Elements & Internet of Things	3
9	Smart Distribution Technologies	2
10	Energy Storage, Micro Grids, Alternative Grid Designs	1
11	Demand Side Management & Demand Response	1
12	Integration of Renewable Energy into the Grid – I	1
13	Transmission and Distribution Challenges in Smart Grids	1
14	On job training / visits / Simulator	2
15	First Semester Examination	1
Second Semester		
16	Communications and Interoperability	1
17	Load Forecasting	2
18	Energy Management Systems	2
19	Smart Grid Operations	2
20	Smart Grid Controls & Power Flow Controllers	2
21	Smart Grid Applications Layer	3
22	Cyber Security	2
23	Integration of Legacy System	3
24	E Mobility	2
25	Integration of RE sources – II	1
26	Smart Grid Enablers for Smart Cities	1
27	International Bench Marks and Lessons Learnt	1
28	Smart Grid Maturity models	1
29	Pilot Projects/Case Studies and Business Models for Smart Grids	2
30	Visits/Lab/Simulation	1
31	Project Presentation	2
32	Second Semester Examination	1
Additional Topics		
33	Big Data, Data Analytics	
34	Demand Management	
35	Risk Management	
36	Asset Management	

APPLICATION FORM

Post Graduate Diploma Course in Smart Grid Technologies

2022

For Official Use only

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

Paste Passport
sized
photograph

1. Full Name of the candidate : _____
(In Capital Letters)

2. Father's Name : _____

3. Date of Birth (in Christian Era) : _____
(as given in 10th/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

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7. Category (mark √)

SC	ST	OBC	PH	GEN	SPONSORED
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8. Address for communication _____

PIN CODE						
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Telephone No. _____ Fax No. _____

E-mail ID: _____

9. Permanent address _____
(if different from above)

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. Are you a Sponsored Candidate?

Yes	No
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If Yes, please furnish the certificate given below:

Certificate of Sponsorship (In 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

Place:

Designation

Seal:

Address

13. Proof of Identity (attach copy)

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

14. Any other information:

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

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

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

FOR OFFICE USE ONLY

Enrolment No:

Application Fee for Rs. 500/- DD No. **Date**

Bank **Branch Code**

Type of Candidature Sponsored Non-Sponsored

Certificate Proof attached :	Age	<input type="text"/>	<input type="text"/>	
	Qualification	<input type="text"/>	<input type="text"/>	
	SC/ST/OBC	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Sponsorship	<input type="text"/>	<input type="text"/>	<input type="text"/>