



NATIONAL POWER TRAINING INSTITUTE

(MINISTRY OF POWER, GOVT. OF INDIA)

Pallipuram P.O, Cherthala,

Alappuzha District, Kerala – 688541

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विद्युत मंत्रालय
MINISTRY OF
POWER



PROGRAM BROCHURE

01 YEAR POST GRADUATE DIPLOMA COURSE (PGDC)

in

POWER PLANT ENGINEERING

SEPTEMBER 2023 -24 BATCH



FIFTY YEARS OF SERVICE TO THE POWER SECTOR - एनपीटीआई के साथ पावर सेक्टर का सुनिश्चित समपूर्ण विकास

About NPTI

National Power Training Institute (NPTI), has been set up by Ministry of Power, Govt. Of India to function as a National Apex body for Human Resources Development in Power Sector with its Corporate Office at Faridabad. NPTI has been providing its dedicated service for more than five decades.

NPTI has trained over 3, 60,000 Power Professionals in regular programs over the last 5 decades. NPTI is the world's leading integrated power training Institute. NPTI is the only institute of its kind in the world with such a wide geographical spread and covering a widegamut of academic and training programs in power sector. NPTI's committed faculty is providing excellent training in the power sector, which is the most important sector among various infrastructure sectors. A number of programs for national as well as foreign customers have been conducted. These programs have benefitted the executives from different organizations. Training provided by NPTI on Power Plant Simulators has improved Plant Load Factor of Generating Units also has increased the availability of Transmission & Distribution System and has decreased Aggregate Technical & Commercial Losses. This in turn is providing more power to the country. Thus, the training being provided by NPTI is having a cascading effect in the growth of GDP and the economy of the country.

ABOUT NPTI, ALAPPUZHA

National Power Training Institute (NPTI), Alappuzha, Kerala, an ISO 9001 & ISO 14001 Organization under Ministry of Power, Govt. of India is pleased to introduce ourselves as a National Apex body for Training and Human Resources (HR Development) in the Power Sector. NPTI with its pioneering services in Human Resourcedevelopment has rendered its services in the power sector for more than five decades. We are imparting training relating to Operation & Maintenance of the electric power plants/systems in the field of Thermal, Hydro, T&D, Renewable Energy and Latest trends in Power Sector including Smart Grid to Working professionals of various power utilities/organizations.



ABOUT THE LOCATION

The state of Kerala, India's most verdant state, rated by National Geographic Traveler as one of the world's 50 must-see destinations, is a paradisiacal landscape of palm-lined beaches, steamy jungles, plantation-covered hills, and tropical rivers and lakes. NPTI, Kerala is located at Pallippuram, near Cherthala railway station in the district of Alappuzha. The Venue is well connected with roads, rail and by Air. The nearest Airport is Cochin International Airport about 60 Kms away. The Venue is at the midway around 35 Kms away from Alappuzha railway junction and Ernakulam railway Junction. Alappuzha or Alleppey, known as the "The Venice of the East" is an entrancing region of awe-inspiring natural beauty with the Arabian Sea on the west and a vast tangle of cerulean lakes, serene backwaters and freshwater rivers. In the recent days, Alappuzha has developed as a major backwater tourist center and is renowned for its pristine beaches, exciting boat races, romantic houseboat holidays and coir industry.

ABOUT THE POST DIPLOMA COURSE:

The Indian power Sector is presently passing through a phase of transition of technology up-gradation in the area of Generation and Transmission of Power. Several new Ultra Mega Thermal Power Projects are in the process of installation both in Public and private sectors where advanced technology like Super Critical Technology supported by the latest technology of Electrical, Control & Instrumentation systems etc are coming in a big way. The course contents of this one year training programme have been designed to fulfill the mandatory requirements of Indian Electricity regulation to groom the students having the basic theoretical knowledge of Power Generation from their college with the latest technology of Operation & Maintenance of the Power plants. After completion of the course, the Diploma Engineers would be eligible for operation & Maintenance of Power plants of Capacity 100 MW and above. The duration of the course would be 52 weeks having 2 semesters comprising class room sessions as well as on-the- job training. The students have to attend the on-job practice sessions in power plants, substations etc. Visit to some reputed manufacturing plants is also an integral part of the course. To enhance the personal skills, some inputs of management are also to be given to the students.

ELIGIBILITY:

B.Tech. / B.E. or its equivalent in Mechanical, Electrical, Electrical & Electronics, Electronics & Instrumentation, Control & Instrumentation, Mechatronics, Power Engineering and related branches. Those appearing in their final year examination can also apply. However, they must submit their final degree/provisional degree/ proof of pass certificate (downloaded copy of mark sheet) at the time of counselling.

PLACEMENT

In order to provide career opportunities in the Indian Power Sector, NPTI maintains close linkages with the power utilities and reputed concerns for placement of trained engineers/technicians. In the past, companies like, Abhijeet Power, Adani Power, Bajaj Energy, CLP, ESSAR POWER, GMR Energy, JSW, HINDALCO, India Bulls, IL&FS, Jindal Power, KSK Energy, LANCO, L&T, Moser Baer power, NALCO, Reliance Power, TATA Power, THERMAX, Torrent Power, Vedanta etc. visited various NPTI for placement of trainees. However sponsored candidates are not eligible for Campus Placement.

Assured placement assistance shall be given. However, placement is not guaranteed.

ON-JOB TRAINING

On-job training is an essential supplement to formal training which provides the trainees an understanding of the functions through involvement with real work situations. Special stress is laid on acquisition of required skills for undertaking specific responsibilities in a particular area of work. On-job experience simplifies and consolidates the knowledge in a Power Sector sphere for which special type of work books have been designed according to the needs of area where on-job training is conducted. On-Job training & plant visits are arranged at nearby substations & Power plants.

FACILITIES AT NPTI, KERALA:

Laboratory:

NPTI, Alappuzha firmly believes in providing its trainee's exposure to National and International Knowledge experts through various training programs. NPTI Alappuzha have built well equipped laboratories and workshops with wide ranging facilities for imparting training to Technicians, Operators and Engineers in various aspects of Power Stations. Some of the areas where expertise has been built are:

1. Multifunctional Simulator

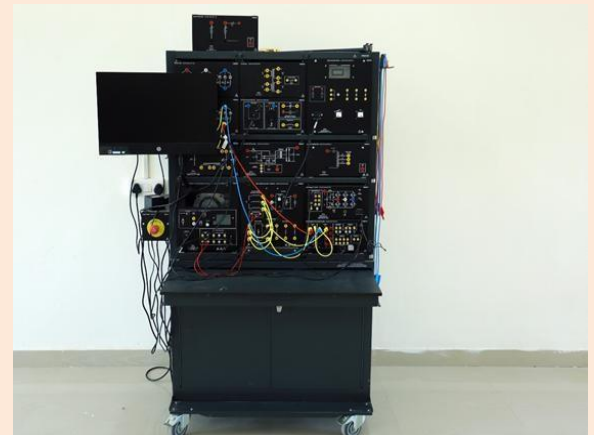
The Simulators replicating the real-time integrated Unit operations for 210MW, 500MW, 800MW, Thermal Units, 250 MW Hydro Unit with additional functionalities of SCADA & Smart Grid are being established. The training on the multifunctional configured simulators may be on only the Thermal Power Plants (210/ 500/ 800 MW) or an integration of Thermal, Hydro (250 MW), SCADA and Smart Grid or even a integration of Thermal, Hydro (250 MW), SCADA and Smart Grid Hands on training on either of the combinations would give a perfect understanding of integrated operation of the power plant & power system.



2. Smart Grid Lab:

Trainer kits available in the Smart Grid Lab are:

1. High Voltage Transmission Line and Protective Systems Trainer/Simulator Kit
2. High Voltage Direct Current Transmission (HVDC) Trainer/Simulator Kit
3. Smart Grid Trainer/Simulator Kit.



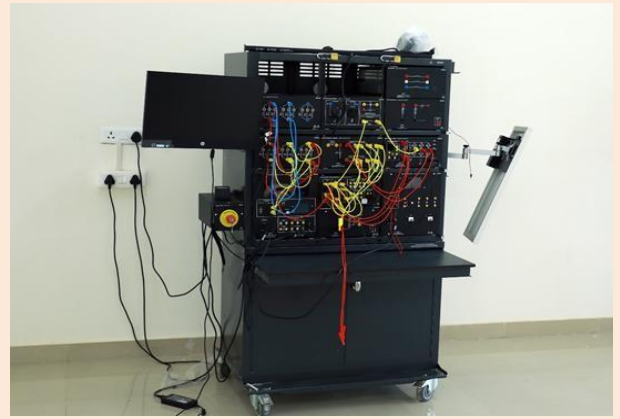
The High Voltage Transmission Line and Protective Systems Trainer/Simulator shall be capable of imparting training in Transmission lines and Cable System and shall be a standalone system. The High Voltage Direct Current Transmission (HVDC) Trainer/Simulator shall be capable of imparting training in HVDC systems and shall be a standalone system.

The Smart Grid Trainer/Simulator shall be capable of imparting training on Smart Grid functionalities.

3. Renewable Energy Lab:

Trainer kits available in the Renewable Energy Lab are

1. Wind Power Plant Trainer/Simulator kit
2. Solar Photovoltaic (PV) Trainer/Simulator kit
3. Micro grid Trainer/Simulator kit



SMART CLASS ROOMS:

The classrooms are well designed to Incorporate everything needed for a pleasant learning atmosphere. There are Seven class rooms and one E-learning room of air conditioned well-furnished are available. Each class room can accommodate 40 participants.



STUDENT /TRAINEES HOSTEL:

Separate hostel facility is available for ladies & gents. During the contact classes, simulator training at NPTI, Kerala and on-job training trainees can stay in the hostel and hostel is provided on nominal charges. Hostellers are to take meals in hostel on payment basis.



AUDITORIUM

The Institute is having AC Auditorium equipped with Audio-Visual System & having capacity of 200 persons.



HOW TO APPLY

Applications are to be filled online with payment of prescribed **Application fee of ₹500/- (including GST)**. Candidates must pay the application fee in online mode through SBI Collect. Eligible candidates can fill the application form online through the **Google form**.

<https://forms.gle/GvzU8TnZo1AQak289>

The detailed course curriculum and the future notifications/ information shall be available on website. The candidates are advised to be regularly visit the website. <https://nptikerala.in> for updates.

QR code for the Application form



COURSE FEE DETAILS FOR PGDC IN POWER PLANT ENGINEERING

1	Course fee for the non-Sponsored candidate	Rs. 2,30,000.00 + 18% GST per participant with following details: a) Registration Fee of Rs.20, 000/- + 18% GST to be paid at the time of counselling for confirmation of admission. b) Rs.1,00,000/- + 18% GST towards 1 st installment of course fee within 01 month of course commencement. c) Rs.1,10,000/- + 18% GST towards 2 nd installment of course fee within 01 month of the start of Second Semester.
2	Course fee for the sponsored candidate from utilities.	Rs. 3,60,000/- + 18% GST per participant

BOARDING & LODGING

The boarding and lodging charges are extra. Rooms will be provided on twin sharing basis.

- ❖ Twin Sharing Accommodation shall be provided if available on the chargeable basis of Rs. 48,000/ + applicable GST for 01 year. However, the Hostel fees may be paid in 2 installments if required.
- ❖ The mess /canteen charges are extra and is to be paid to the mess contractor directly.

PAYMENT MODE:

THROUGH SBI COLLECT:

Steps to make the payment to NPTI through State Bank Collect is given below:

1. Visit website <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>
2. Search for “NATIONAL POWER TRAINING INSTITUTE-Haryana” or Select Category as “Educational Institutions” Filter by State and Select “Haryana”. Select “NATIONAL POWER TRAINING INSTITUTE”
3. For mandatory payments by students of NPTI:
 - i. All students of NPTI (all 11 Institutes) are required to Select Payment Category as “Institute Fee Payment” for making payments of Tuition Fee, Hostel Charges etc.
 - ii. Fill the details and make the payment to NPTI (Institute name is required to be selected in “Course Studying at NPTI”).All the students have to make the payment as above only for studying any course at any NPTI.
4. For any other type of payments by Organizations/Clients/other persons:
 - i. Select the appropriate payment category as applicable like for making Invoice or Bill payment to NPTI then Select Payment Category as “Invoice/Bill Payment” for making payments to NPTI.
 - ii. Fill the details and make the payment to NPTI.

THROUGH UPI PAYMENT MODE:

G PAY/PAYTM/PHONE PE etc. to NPTI, FARIDABAD, HARYANA account as below: -

Name of the Institute : NPTI, FARIDABAD, HARYANA

Name of the Bank : State Bank of India

Account No. : 10724879119

Branch : Sarai Khwaja, Faridabad

IFSC code : SBIN0003245

CONTACT DETAILS

Mobile Number:	Shri. Rohit R (Program Coordinator) (+91) 9946117430	Ms. Athira Krishnan Faculty (+91) 6238417413
Principal Director Dr. S. Selvam (0478)-2955800	Deputy Director/Training Shri. S. Senthil Kumar +91 9443088015	Assistant Director Shri. Shashank Shukla +91 9315338334

IMPORTANT DATES FOR THE PROGRAM

Direct admission starts from	01.08.2023
Last Date of submission of application (Online/Offline)	08.09.2023
Date of Counseling	13.09.2023
Tentative Commencement of the program	20.09.2023



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