

AICTE
Training & Learning Academy (ATAL)

Sponsored Program
on
Blockchain Technology

17th-21st February, 2020



Venue - NPTI-NR, BTPS Complex, Badarpur, New Delhi

Organised By
NATIONAL POWER TRAINING INSTITUTE

A National Apex Body for Training in Power Sector
(An ISO 9001:2015 & 14001:2015 Organization)

Ministry of Power, Government of India
BTPS Complex, Badarpur, New Delhi-110044, India
www.npti.gov.in

About NPTI:

National Power Training Institute (NPTI) an ISO 9001 & ISO 14001 organization under Ministry of Power, Govt. of India, is a National Apex body for Training and HRD in Power Sector with its Corporate Office at Faridabad. NPTI is the world's leading integrated power training institute and it is operating on an all India basis through its regionally located Institutes at Faridabad, Badarpur, Nangal, Bengaluru, Neyveli, Durgapur, Guwahati and Nagpur. NPTI is establishing two new institutes at Alappuzha (Kerala) and Shivpuri (MP) which would be operational shortly. NPTI has more than 50 years of professional expertise in the field of training and HRD in Power sector with industry specific interface.

Program Overview: The widespread popularity of digital crypto currencies has led to the foundation of Blockchain, which is fundamentally a public ledger to share information in trustworthy and secure way. Blockchain technology is an emerging technology suitable for decentralized and transactional sharing of data across a large network of untrusted participants. By using this technology one can maintain continuously-growing list of records called blocks and link them in a distributed manner (Blockchain), potentially in such a way that these are secured against tampering. Blockchain is maintained as distributed database of records of transactions (Distributed Ledger).

This technology allows new type of distributed software architecture where components can establish trust by finding concurrence on their shared states. Blockchain have good potential to transform the logging and management of transactions in different application areas. Considering the growing importance of Blockchain Technology and its potential in different sectors, this Five day training program is planned and sessions would be delivered by experts from the Industry.

Target Audience: Faculty members and PhD research scholars of AICTE affiliated educational institutions are eligible to participate. There is no registration fees for the course and maximum 50 participants will be allowed to register. Participants will be provided only tea/ working lunch during the course. No TA/DA will be given to any participants and they have to make their own arrangements for stay.

All correspondence should be addressed to:

**Dr. Indu Maheshwari, Director
National Power Training Institute
BTPS Complex, Mathura Road, Badarpur, New Delhi - 110 044,
Tel: 9818283269 Fax: 011 - 26940722**

For Registration Kindly visit the following link:

<https://docs.google.com/forms/d/e/1FAIpQLSd4ZzgbtXRTntzTmMPYP8HaLCToGliJaf1Es54OvhzBNUW8zw/viewform?vc=0&c=0&w=1>

**For further Information please contact:
Manoj Kumar Sharma, Deputy Director
Email: manoj.npti@gov.in, Mobile: 9555529991**

**For more details about AICTE-ATAL Academy please visit
www.aicte-india.org/atal**

(National Power Training Institute - Northern Region, New Delhi)

Title of the Workshop: Blockchain Technology

From 17/02/2020 To 21/02/2020

PRE-REQUISITES

- Cryptography Techniques
- Data Structures and Algorithms
- Introduction to Programming

Dates	10:00 AM to 11:30 AM	11:30 AM to 12.00 PM	12.00 PM to 1.30 PM	1.30 PM to 2:30 PM	2:30 PM to 4.00 PM	4:15 PM to 4:45 PM
17/02/2020	Registration and Inauguration	High Tea	Session 1 Introduction to Blockchain	Lunch	Session 2 Smart Contracts and Ledgers, Ethereum framework	Tea
18/02/2020	Session 3 Cryptocurrency - Concepts & Applications	Tea	Session 4 Integration of Blockchain & Cryptocurrency	Lunch	Session 5 Lab/Hands on Exp.	Tea
19/02/2020	Session 6 BITCOIN & Mining	Tea	Session 7 Blockchain for Enterprises	Lunch	Session 8 Lab/Hands on Exp.	Tea
20/02/2020	Session 9 Developing Blockchain (ledgers, contracts etc.)	Tea	Session 10 Developing Blockchain Contd.	Lunch	Session 11 Lab/Hands on Exp.	Tea
21/02/2020	Session 12 Blockchain - Case Study	Tea	Session 13 Case Study Contd.	Lunch	Session 14 Open Discussion	Valediction