



उत्तर प्रदेश पावर कारपोरेशन लिमिटेड
(उ०प्र० सरकार का उपक्रम)
U.P. POWER CORPORATION LIMITED
(Govt. of Uttar Pradesh Undertaking)
शक्ति भवन, 14 अशोक मार्ग, लखनऊ
CIN : U32201UP1999SGC024928

संख्या-35-ज०श० प्र०सु० एवं प्रशि०-01/पाकालि/2022-11(08)प्रसे०-2000, M.F

दिनांक 07 01.2022

कार्यालय ज्ञाप

National Power Training Institute, Faridabad, Haryana द्वारा "साइबर सिक्योरिटी" विषय पर आयोजित एक सप्ताह (दिनांक 10.01.2022 से 14.01.2022) की ऑन लाईन थ्योरी तथा एक सप्ताह की ऑन लाईन हैडस ऑन (जिसकी तिथियाँ NPTI द्वारा बाद में सूचित की जायेगी) प्रशिक्षण हेतु एतद्वारा निम्नलिखित अधिकारियों को नामित किया जाता है :-

क्र०सं०	अधिकारी का नाम	पद	SAP आई०डी०
पू०वि०वि०नि०लि०।			
1	श्री अरुणेश कुमार(CISO)	अधीक्षण अभियन्ता (आई०टी०)	11007069
2	श्री भरत भूषण	अधिशाली अभियन्ता (आई०टी०)	11001357
3	श्री निर्भय कुमार सिंह	सहायक अभियन्ता (आई०टी०)	11003392
म०वि०वि०नि०लि०।			
4	श्री अशोक सुन्दरम् (CISO)	अधीक्षण अभियन्ता (आई०टी०)	11000264
5	श्री अरविन्द सिंह	अधिशाली अभियन्ता (आई०टी०)	13000017
6	श्री नितीश कुमार मिश्रा	अधिशाली अभियन्ता (आई०टी०)	11000231
7	श्री स्वप्निल सिंह	सहायक अभियन्ता (आई०टी०)	11002080
द०वि०वि०नि०लि०।			
8	श्री प्रदीप खत्री(CISO)	अधीक्षण अभियन्ता (आई०टी०)	11005373
9	श्री पियूष कुमार सिंह	सहायक अभियन्ता (आई०टी०)	11000433
प०वि०वि०नि०लि०।			
10	श्री शिवम शर्मा(CISO)	अधिशाली अभियन्ता (आई०टी०)	11000182
11	श्रीमति प्रेरणा	सहायक अभियन्ता (आई०टी०)	11000183
12	श्री अरविन्द कुमार	सहायक अभियन्ता (आई०टी०)	11000185
के०को-कानपुर।			
13	श्री अमित कुमार धर्मा(CISO)	अधिशाली अभियन्ता (आई०टी०)	11000035
उ०प्र०पाकालि०।			
14	श्री प्रतीश प्रांजल	अधिशाली अभियन्ता (आई०टी०)	11001205
15	श्री मधुर कुमार वर्मा	सहायक अभियन्ता (आई०टी०)	11002294
16	श्री अम्बरीश मिश्रा	सहायक अभियन्ता (आई०टी०)	11000533
17	श्री भानु प्रताप सिंह	सहायक अभियन्ता (आई०टी०)	11002247
18	श्री मनीष कुमार	सहायक अभियन्ता (आई०टी०)	11003281
19	श्री आर०एम० भारती	सहायक अभियन्ता (आई०टी०)	11003464

उपर्युक्त कार्यक्रम हेतु यथा निर्धारित शुल्क रु० 39,000.00 (उनतालिस हजार मात्र) (GST @18% Extra) प्रति प्रतिभागी की दर से भुगतान आर०टी०जी०एस० C/A No 10724879119, National Power Training Institute, Faridabad, IFSC code-SBIN0003245, SBI, Sarai Khwaja, Faridabad, GST Number: 06AACAN2698A1ZR के माध्यम से भुगतान किये जाने की स्वीकृति एतद्वारा प्रदान की जाती है।

उक्त सन्दर्भ में होने वाला समस्त व्यय उ०प्र० पावर कारपोरेशन लि० के चालू वित्तीय वर्ष के वजट के सुसंगत मद में दर्शाया जायेगा।

प्रबन्ध निदेशक

क्रमशः.....2

संख्या-35(i)-ज0श0 प्र0सु0 एवं प्रशि0-01/पाकालि/2022, तददिनांक ।

प्रतिलिपि :- डा0 तृप्ता ठाकुर, महानिदेशक, राष्ट्रीय विद्युत प्रशिक्षण प्रतिष्ठान, फरीदाबाद, हरियाणा को उनके पत्र सं0-D.O No. NPTI/Co/Trg/Cyber/2021/5789, Date 22-12-2021 के संदर्भ में सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

आज्ञा से,

(एस0 पी0 सिंह)

उप सचिव (ज0श0 प्र0सु0 एवं प्रशि0)

संख्या-35(ii)-ज0श0 प्र0सु0 एवं प्रशि0-01/पाकालि/2022, तददिनांक ।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. अध्यक्ष, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ के निजी सचिव।
2. प्रबन्ध निदेशक, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ के निजी सचिव।
3. प्रबन्ध निदेशक, पूर्वांचल/मध्यांचल/दक्षिणांचल/पश्चिमांचल, वि0वि0नि0लि0, कानपुर विद्युत आपूर्ति कम्पनी लि0, वाराणसी/लखनऊ/आगरा/मेरठ/केरको-कानपुर ।
4. समस्त निदेशकगण, उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ।
5. मुख्य अभियन्ता (आर0ए0पी0डी0आर0पी), उ0प्र0पा0का0लि0, शक्ति भवन विस्तार, लखनऊ को उनके टिप्पणी एवं आदेश सं0-1641/आर0ए0पी0डी0आर0पी0-ए/आई0टी0 दिनांक 31.12.2021 के सन्दर्भ में।
6. अपर सचिव (प्रथम/द्वितीय), उ0प्र0 पावर कारपोरेशन लि0, शक्ति भवन, लखनऊ।
7. लेखाधिकारी (केन्द्रीय भुगता), उ0प्र0पा0का0लि0, शक्ति भवन विस्तार, लखनऊ।
8. अधिशासी अभियन्ता (वेब), शक्ति भवन लखनऊ को उ0प्र0पा0का0लि0 की वेबसाइट पर अपलोड करने हेतु।
9. समस्त प्रतिभागियों को ब्रोशर की छायाप्रति इस आशय के साथ प्रेषित की प्रश्नगत कार्यक्रम में भाग लेने हेतु यथा निर्धारित शुल्क उक्त प्रस्तर-2 में वर्णित पद्धति से अपनी आहरण/वितरण इकाई से आयोजित संस्था को ससमय उपलब्ध कराने का कष्ट करें।

आज्ञा से,

(एस0 पी0 सिंह)

उप सचिव (ज0श0 प्र0सु0 एवं प्रशि0)

डॉ. त्रिप्ता ठाकुर
महानिदेशक
Dr. Tripta Thakur
Director General

11248

3916- 1/21

D.O No. NPTI/Co /Trg /Cyber/2021/ 5789
Dated: 22.12.2021

Sub Training and Certification Program on Cyber Security —Reg

Dear Shri Pankaj Kumar Ji,

संख्या: 1787-जंश० प्र०सु० एव० प्रशि०-01/पा०का०लि०/2021
पत्रावली संख्या: 11(6) प्रशि०/2000.....
क्रम संख्या: 616

Ministry of Power has issued Cyber Security in Power Sector Guidelines 2021 on 7th October 2021. The guidelines on Cyber Security, in the form of Articles, requires mandatory Compliance by all Responsible Entities.

In this regard under Article 8, CEA has given mandate for Training and Certification of all personnel engaged in O & M of IT and OT Systems to NPTI. These personnel have to mandatorily undergo courses on Cyber Security of Power Sector immediately within 90 days from notification of CEA Guidelines on Cyber security in Power Sector.

The Governing Board for PSO Training and Certification has approved 1 week class room Basic Level program and 1 week laboratory program for the Power Sector Employees proposed to be started from 10th January 2022.

You are requested to convey the nominations of 30-35 employees engaged in the O & M of IT and OT systems of your organization to participate in the above mentioned Training Program.

The list may be forwarded to **Shri Mukesh Kumar, Dy. Director, NPTI: email: mukesh.npti@gov.in, Mobile.: 9810704004** at the earliest to make necessary arrangements. The brochure for the 1 week on-line program is attached herewith.

With kind regards,

Yours sincerely,

EE(A) Dir. (PM4A)
(Dr. Tripta Thakur)

To

Shri Pankaj Kumar (IAS)
Managing Director
Uttar Pradesh Power Corporation Limited (UPPCL),
Shakti Bhawan Extension,
14 Ashok Marg Lucknow – 226 001
(Uttar Pradesh)

24/12/21 (पंकज कुमार)
प्रबन्ध निदेशक
उत्तर प्रदेश पावर कारपोरेशन लि०

A-S-01

24/12

निदेशक (का०)

उ०प्र० पावर कारपोरेशन लि०

श्री अमरजी लाल

प्रिन्सिपल

स्वच्छ भारत

सुरेन्द्र प्रताप सिंह
अपर सचिव-प्रथम

27/12/21

35 हाथ (121)
27/12/21



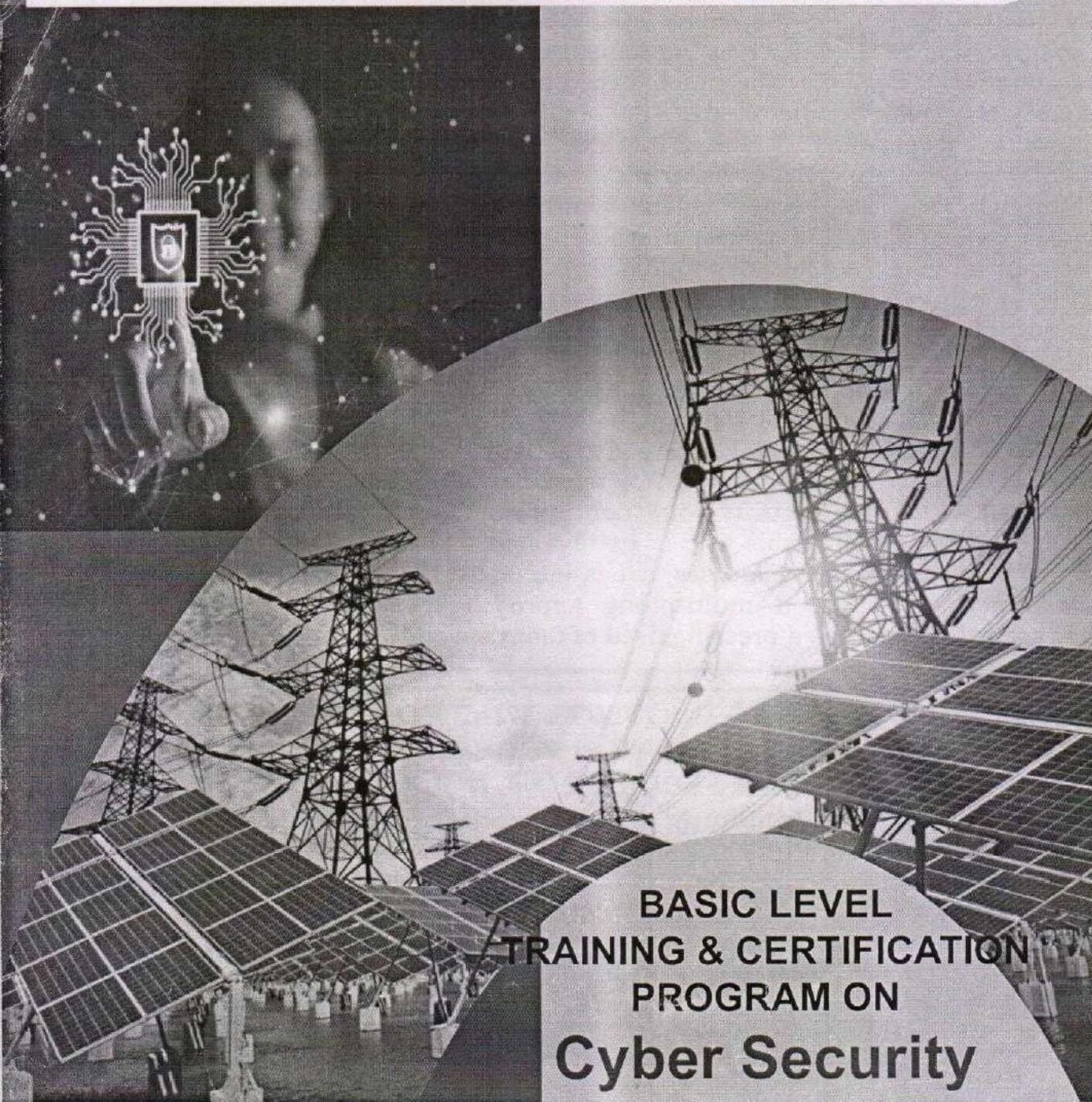
National Power Training Institute

An ISO 9001 & ISO 14001 Organization

Ministry of Power, Govt. of India

NPTI Complex, Sector: 33

Faridabad: 121003, Haryana



BASIC LEVEL TRAINING & CERTIFICATION PROGRAM ON Cyber Security

CYBER SECURITY IN POWER SECTOR

Cyber intrusion attempts and cyber- attacks in any critical sector are carried out with a malicious intent. In the power sector it is either to compromise the power supply system or render the great operation insecure. Any such compromise may result in operations of equipments, equipment damages or even in a cascading grid blackout. The much hyped air gap myth between IT and OT systems now stands shattered. The artificial air gap created by developing firewalls between any IT and OT systems can be jumped by any insider or an outsider through social engineering. After gaining the entry inside the system through privilege escalation, the control of IT network and operations of OT systems can be taken over even remotely by any cyber advisory. The gain of sensitive operational data through such intrusions may help the cyber attackers to design more sinister and advanced cyber attacks.

In order to reduce the risk, while robust risk-driven cyber security architecture, policies, and procedures, and application of cyber risk mitigating technologies are required, increasing public awareness, and development of human resources trained in cyber security technology, as well as policy makers, law-enforcement, judicial actors, are law makers are also equally necessary.

In particular, lots of cyber risks are sector specific. Therefore, domain knowledge combined with cyber security education and hands-on training are required. Awareness among individuals who use technology on a daily basis, as well as employees in government, businesses, education institutes, utilities etc., are also very important. Thus, a multi-prong approach to enhance the country's cyber security posture is a pressing need of today's world.

NATIONAL POWER TRAINING INSTITUTE WILL CONDUCT TRAINING AND CERTIFICATION PROGRAM ON CYBER SECURITY

As per Article 8 of CEA (Cyber Security in Power Sector) Guidelines, 2021, National Power Training Institute (NPTI) in consultation with CEA has identified and designed domain specific courses on Cyber Security for different target groups in Power Industry. NPTI will organize class-room training programs along with hands-on training programs for personnel having authorized cyber or authorized physical access (unescorted or escorted) to their Critical Systems. All Personnel engaged in O&M of IT & OT Systems shall mandatorily undergo courses on cyber security of Power Sector from NPTI.

About National Power Training Institute

National Power Training Institute has been set up by the Government of India under the Ministry of Power, to function as the National Apex Body for Human resources development of the Indian Power Sector. The corporate office of NPTI is located at NPTI Complex, Sector-33, Faridabad, Haryana. NPTI operates on all India basis with 11 constituent Institutes spread over the country. The Institutes are at Faridabad, Badarpur, Nagpur, Durgapur, Bangalore (PSTI and HLTC), Neyveli, Guwahati, Shivapuri, Nangal and Alappuzha.

NPTI has over 50 years of professional expertise in the field of Training, Education and HRD in Power Sectors with industry specific Technical Interface. NPTI has been in the forefront of the Power Industry in developing Hi-Tech Training facilities such as Multimedia Computer Based Training (CBT) Centres and the State-of-the-art Full scope and Distributed Digital Control High – Fidelity, High – Quality, Real – Time Training Simulators.

OBJECTIVE OF THE TRAINING AND CERTIFICATION PROGRAM

- ❖ Creating cyber security awareness
- ❖ Creating a secure cyber ecosystem
- ❖ Creating a cyber-assurance framework
- ❖ Strengthening the regulatory framework
- ❖ Creating mechanisms for security threat early warning, vulnerability management and response to security threats
- ❖ Securing remote operations and services
- ❖ Protection and resilience of critical information infrastructure
- ❖ Reducing cyber supply chain risks
- ❖ Encouraging use of open standards
- ❖ Promotion of research and development in cyber security
- ❖ Human resource development in the domain of Cyber Security
- ❖ Developing effective public private partnerships
- ❖ Information sharing and cooperation
- ❖ Operationalization of the National Cyber Security Policy

**BASIC LEVEL TRAINING AND CERTIFICATION PROGRAM ON
CYBER SECURITY**

As per Article 8 of CEA (Cyber Security in Power Sector), National Power Training Institute (NPTI) will be the Certifying Authority for Basic Level Training and Certification Program.

NPTI will conduct the Training and Certification Programs in On-line/Off-line/Hybrid mode. These courses will equip the Power Professionals with necessary inputs to Creating mechanisms for security threat early warning, vulnerability management and response to security threats.

SCHEDULE

Training Mode	Duration	Date	Course Fee (INR)
Theory (On-line)	1 Week	10 th to 14 th January, 2022	18,000 (GST @ 18% Extra)*
Hands-on (On-line)	1 Week	Date will be announced	21,000 (GST @18% Extra)*

*Above mentioned course fee is applicable only for online mode of training.

**WHO CAN ATTEND THE
TRAINING AND CERTIFICATION PROGRAM**

All Power Professionals from Generation, Transmission and Distribution Sector of Power Industry are invited to participate in the Training Program.

IMPORTANT NOTE

After the completion of Theoretical Training, Hands-on sessions will be conducted at a gap of two/ three weeks for the same set of participants. Participants should complete both the modules to get the Course Completion Certificate.

BASIC LEVEL TRAINING AND CERTIFICATION PROGRAM ON CYBER SECURITY (THEORY)

Day	FN/AN	Focused on
Day 1	Introduction to Cyber Security and Cyber Risk Management	
	Fore Noon	Introduction to Cyber Security, Cyber Risks, Risk Assessment Models , Basic Cyber hygiene, Cyber Security of IT vs. OT, Role of CERT-In, Power Sector Sectorial CERTs, NCIIPC, IT Act 2000 with amendments, Govt. Initiatives and Guidelines
	After Noon	Cyber Security Awareness Phishing Awareness, Remote Session Security , Device/End Point Security, Server Security, Network Security, Application Security, ICS and SCADA Security
Day 2	Network Security	
	Fore Noon	Network Security Fundamentals Network Zoning and Segregation, Network Cyber Threats, Network Protocols and their security Issues, DNS, TCP/IP, LAN, Physical Layer Security, Wifi Security Intranet Security, Port Analysis, Mitigation Techniques
	After Noon	Firewall, Intrusion Detection and Intrusion Prevention, Detecting Network based Attacks, Encryption, Hashing, Digital Signature, Router Security
Day 3	Application Security	
	Fore Noon	Security Threats to Applications – Stand alone, Network based applications, Web applications , Application Security Threats and Problems, Application Security Threat Detection and Mitigation, Vulnerability Assessment and Penetration Testing (VAPT) , OWASP Top 10 Vulnerabilities
	After Noon	Web Application Security Threats and Attacks, Web Application Attack Detection SSL/TLS and Digital Certificates, Capturing Web traffic , Web Application VAPT

BASIC LEVEL TRAINING AND CERTIFICATION PROGRAM ON CYBER SECURITY (THEORY)

Day	FN/AN	Focused on
Day 4	Best Practices and Awareness	
	Fore Noon	Introduction to various standards such as NIST Cyber Security Framework/NERC-CIP/ISO27001/ISO27002/ISO 27019 etc. , NESCOR guide to vulnerability assessment, Security assessment strategy, Risk Assessment
	After Noon	Authentication and Authorization, Network Traffic Analysis, Patch Management and Upgradation, Solar, Wind, Colonial Pipeline, Black Energy 3 & Stuxnet, malware infection on Kudankulam Nuclear Power Plant (KKNPP) - Lessons Learnt
Day 5	Emerging Technologies	
	Fore Noon	Intrusion Detection System (IDS) & Intrusion Prevention System (IPS), Deception technology, Data diode, SIEM (Security Information and Event, Management) & EDR (Endpoint Detection & Response), SOC (Security Operation Center)
	After Noon	Technologies for anomaly detection in, power system, Malware Detection , Artificial Intelligence and Machine Learning, Industrial IoT, Big Data, Blockchain etc.
		Appraisal

BASIC LEVEL TRAINING AND CERTIFICATION PROGRAM ON CYBER SECURITY (HANDS-ON)

Day	FN/AN	Focused on
Day 1	Hardening of Your System	
	Fore Noon	LAB: Hands on Malware Analysis Manual Tools to check malware, Use URL, IP address, Domains & File Hashes and Use of Virus Total to check against malware, Malware Analysis Tool Usage (Signature, Yara Rules)
	After Noon	LAB: Operating System Hardening Understanding the concept of O/S Hardening against, Vulnerabilities, Lynis Tool for Linux, Windows Group Policy Edit Tool, Opens cap and Scap Workbench for , Configuration Audit
Day 2	Finding Security Flaws/Vulnerabilities	
	Fore Noon	Application Security Buffer Overflow Lab, Integer Overflow Lab, Privilege Escalation Labs , Open VAS Lab
	After Noon	Web Security Command Injection Lab, SQL Injection Lab, Cross-site Scripting Lab, Cross-site , Request Forgery Lab, Session Hijacking Lab, OWASP Top 10 vulnerabilities Lab
Day 3	Network Security Lab	
	Fore Noon	Network Labs Arp Spoofing Lab, Packet Sniffing and Packet Analysis Lab, Man-in-the-Middle Attack Network reconnaissance, Wireshark overview & Hands on
	After Noon	Wifi Network Lab Password sniffing in wifi network, Reconnaissance on wifi network using aircrack-ng Wifi password cracking lab

BASIC LEVEL TRAINING AND CERTIFICATION PROGRAM ON CYBER SECURITY (HANDS-ON)

Day	FN/ AN	Focused on
Day 4		Intrusion Detection Lab
	Fore Noon	Using Snort NIDS, Using Zeek/Bro NIDS Visualization of network traffic data Visualization of security events using ELK
	After Noon	Host/Endpoint Intrusion Detection Lab using Wazuh OSSEC HIDS Lab
Day 5		Deception Technology Labs and Organizational Security Policy Lab
	Fore Noon	Honeypots for Threat Intelligence Collection Lab, Use of Honey Tokens
	After Noon	Organization Level Security Policy – Requirements, Discussions and Formulation (Discussion Oriented Lab)

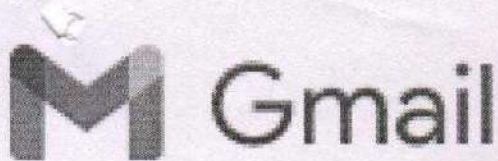
CONTACT DETAILS

DR. MANJU MAM
Principal Director
NPTI, CO, Faridabad
Mail I.d: manju.npti@gov.in

SHRI. SANJAY D PATIL
Director
NPTI, Shivapuri
Mail I.d: sanjay.npti@gov.in

GOOGLE LINK TO SEND NOMINATIONS [https://docs.](https://docs.google.com/forms/d/e/1FAIpQLSe_2dpvSoZly4fVvcZHbnmm1wbQ0-uv_NOOM42VhC3rXtxkaA/viewform?usp=sf_link)

[google.com/forms/d/e/1FAIpQLSe_2dpvSoZly4fVvcZHbnmm1wbQ0-uv_NOOM42VhC3rXtxkaA/viewform?usp=sf_link](https://docs.google.com/forms/d/e/1FAIpQLSe_2dpvSoZly4fVvcZHbnmm1wbQ0-uv_NOOM42VhC3rXtxkaA/viewform?usp=sf_link)



Deputy Secretary
<dsmapi01uppcl@gmail.com>

Account details of NPTI

1 message

Mukesh Kumar

Fri, Jan 7, 2022 at 2:01
PM

<mukesh.npti@gov.in>

To: dsmapi01uppcl@gmail.com

Cc: "Dr. Tripta Thakur" <dg.npti@gov.in>, "Dr. Manju Mam"
<manju.npti@gov.in>

Dear Sir,

Greetings from NPTI!

Please find below NPTI's account details:

C/A No 10724879119

National Power Training Institute , Faridabad

IFSC code - SBIN0003245

SBI , Sarai Khwaja, Faridabad

GST Number: 06AACAN2698A1ZR

With Kind Regards Mukesh Kumar Deputy
Director(T/F)/PRONational Power Training
Institute, Faridabad Ministry of Power, Govt. of
India Mob: 9810704004