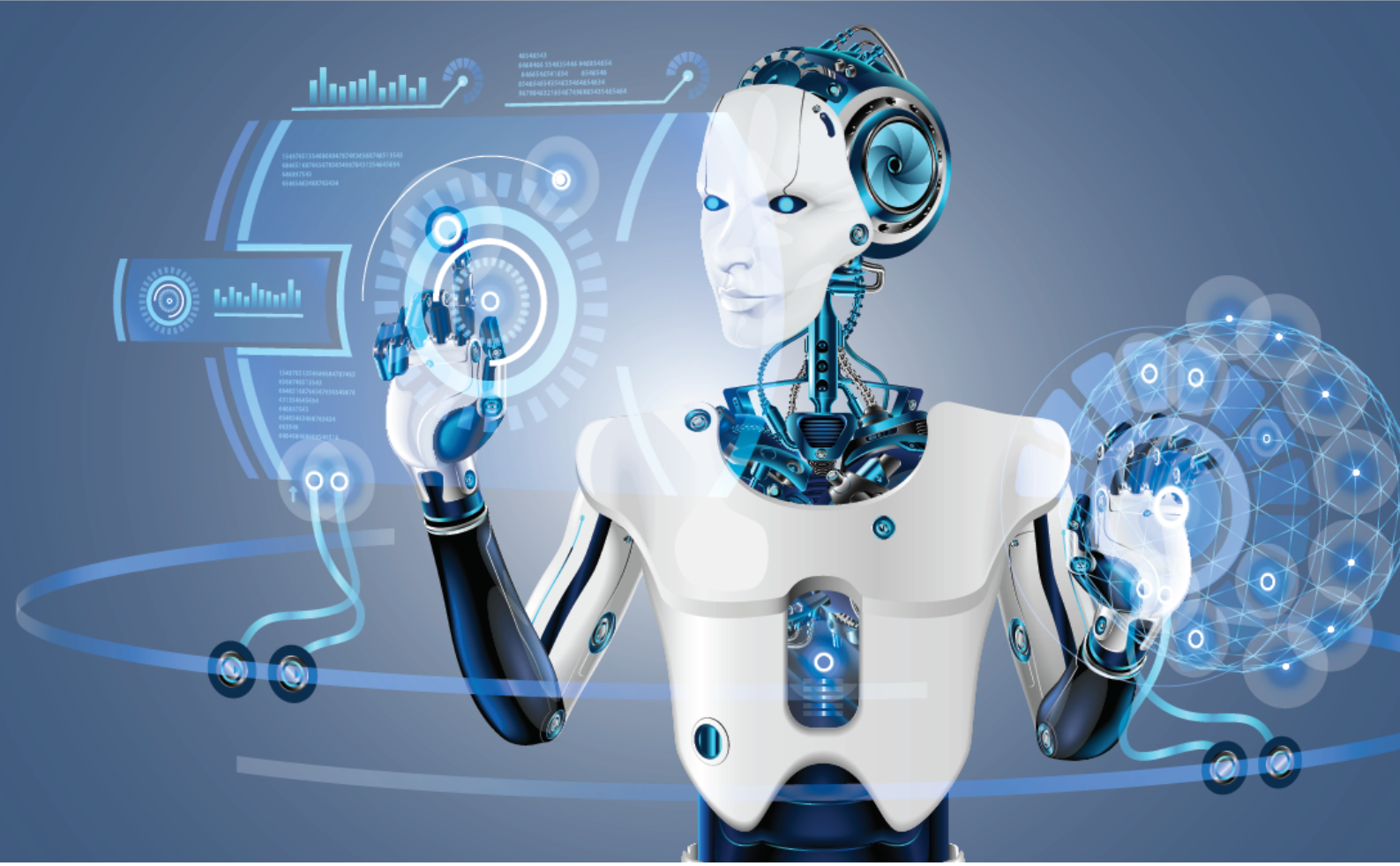




GOVERNMENT OF INDIA  
MINISTRY OF POWER

सत्यमेव जयते



# Robotic Process Automation and Cloud Services for Power Utilities

A Management Development Program by NPTI, Government of India

**22nd April, 2024 to 26th April, 2024**

**Venue: NPTI Campus, Faridabad**

**Duration:** 5 days (6 hours each day) Four sessions of 90 minutes each day

**Pedagogy:** Tutorials, Hands on lab session, Capstone Project

**Tools:** UiPath and Microsoft Power Automate, Microsoft Azure

**APPLY NOW**

[www.npti.gov.in](http://www.npti.gov.in)

## About NPTI



National Power Training Institute (NPTI), is organization under Ministry of Power, Govt. of India is a National Apex body for Training and Human Resources Development in Power Sector and the world's leading integrated Power Training Institute, with its Corporate Office at Faridabad. NPTI operates on a Pan- India basis through its Eleven institutes in different power zones of the country located at Faridabad, Badarpur, Nangal, Bengaluru, Neyveli, Allapuzha, Durgapur, Guwahati, Nagpur & Shivpuri. Apart from highly skilled and competent trainers and state of art laboratories, NPTI has Hi-tech real time simulators at its various Institutes. NPTI trained more than 4,50,000 Power Professionals in various training programs over the last 5 decades. NPTI is the only institute of its kind in the world with such a wide geographical spread and covering a wide gamut of academic and training programs in Power Sector.

## Introduction

Robotic process automation (RPA) is a software technology that makes it easy to build, deploy, and manage digital robots that emulate humans' actions interacting with digital systems and software. RPA is at the heart of digital transformation of any enterprise as it can seamlessly integrate information and actions that humans currently do with repetition.

Once trained, digital robots can download files, process the files, trigger workflows like alerts and notifications, send reports, generate alerts and notifications working seamlessly across most software on a machine. Digital robots can do work tirelessly without mistakes and without taking breaks.

More than 90% of organizations across the globe are now using digital robots for enhanced productivity, error free reconciliation of data and even compliance. The process of sending emails, SMS, information reconciliation in excel all can be automated. Digital robots can download, open, process, modify, save, and upload files seamlessly – they can login, logout of systems and servers.

RPA skills are in hot demand with most organizations embarking on the journey of digital transformation. Professionals with RPA skills are multiple times more productive at the workplace than a person who does not have RPA as a skill set.

Just like basic Excel and PowerPoint skills, RPA skills must be in the repertoire of every professional. A McKinsey report states that process automation can be applied to 40% to 60% of the business and operational processes of energy utilities.

NPTI as the apex Training institute of Government of India, brings the unique hands-on workshop format program aiming to develop skill in UiPath, world's largest RPA automation platform and Microsoft Power Automate for the professionals working in Power Utilities.

Aiming to enhance employee productivity manifold, RPA program for power utilities aims to train employees who can speed up the journey of power utilities towards digitization. Opportunities galore in automation of operation processes, financial processes or maintenance, R&M processes to digitise processes.

## MDP Objectives

The 5 day program is expected to help professionals who are currently in the role of data analyst, business analyst as well as professionals working in commerce, operations, finance, marketing department to learn the process of creating digital robots to do manual processes.

The program can also help managers to identify opportunities for process automation in their respective organization. RPA professionals are in high demand in marketplace.

Accordingly the program is also useful for freshers and recently recruited professionals who want to be associated with business process transformation and automation.

Participants at the end of the course will develop hands on skills in the following areas:

- Understand which processes can be automated
- Prepare digital robots to process information, email automation, customer notification processes
- Prepare simple robots for basic processes such as invoices, OCR recognition to email automation to integrating API
- Understand both desktop based and cloud based automation flow
- Deploy Digital robots locally, organization wide or globally
- Integrate Robots that can read, speak or translate documents
- Prepare simple chatbot robots

Delivered by Industry Practitioners with decades of experience in the field with well curated modules, hands on tutorials, this intense yet friendly program will help participants become productive in a matter of days.

## Program Features

- The program is a 5-day classroom program delivered at our 15-acre NPTI Headquarters at Faridabad in the NCR region. Participants can avail campus residency on an optional basis.

- The program is application oriented - participants will experience rapid skill development in understanding digital processes automation. This is a hands-on course with participants working hands on to develop skills to automate various processes. The program is comprehensive in coverage as it covers skill development with case based application based pedagogy.
- Course materials include Practice Playbooks, Tutorial handouts, shared drive knowledge repository and Exercise files.
- Gartner, the world leader in IT research, names Microsoft Power Automate and UiPath as the world's best and leading platform for digital process automation. Both these platforms will be covered in the Training Program including cloud services using Microsoft Azure.
- The program is intense yet friendly. Participants will feel the pleasure and pride of developing tangible skills and experience of creating digital robots that automate real operational, financial and compliance processes.
- The course is suitable for beginners as well as experienced executives.

## Content and Topics

Session No.	Topics
<b>DAY 1</b>	
Session 1	Introduction Program Overview – What is RPA Case Studies and examples of RPA in Energy Industry
Session 2	Installing and setting up UiPath UiPath Interface Desktop vs cloud based Robots Hands on exercise to develop first digital robot Email Automation
Session 3	Understand cloud automation SMS Automation
Session 4	Tutorial – Combining Excel, Email and SMS Automation Hands on lab session
<b>DAY 2</b>	
Session 1	Cloud based Digital Robots
Session 2	Prepare a robot to read and recognize text
Session 3	Prepare robot to recognize image and describe images Computer vision
Session 4	Lab: Develop robot that can read, write, and speak
<b>DAY 3</b>	
Session 1	Excel Automation :1
Session 2	Excel Automation :2 Manipulate data in Data Tables and work with Excel files in Studio through these key concepts: Data Tables: Build Data Table, Filter Data Table, Join Data Table, Workbooks and Common Activities for working with Excel files in Studio. Excel Application Scope and Specific Activities in Studio.
Session 3	Excel Automation Case Study
Session 4	
<b>DAY 4</b>	
Session 1	Data Scraping and web scraping
Session 2	Cloud based Services: understanding inputs and outputs
Session 3	Text Services Automation: Key phrases, Sentiment Analysis
Session 4	Lab session

DAY 5	
Session 1	Deploying and scheduling Robots
Session 2	Microsoft Power Automate
Session 3	Integrating Web services with Microsoft Power Automate
Session 4	Course Wrap up

\*NPTI reserves the right to modify content as the technology platforms undergo change from time to time.

## Program Fee

INR 35,000/- Residential and INR 25,000/- Non - Residential (+ Applicable GST) per person for participants from India and USD 1500/- for foreign participants (+ Applicable GST)

## Early Bird Discount

Nominations received upto 31st March, 2024 will be entitled to an Early Bird Discount of 10% and last date of nominations is 17th April, 2024.

Early Bird Fee (Residential) INR 30,000/- (+ Applicable GST)

Early Bird Fee (Non-Residential) INR 20,000/- (+ Applicable GST)

## Group Discount

Group Discount of 5% percentage can be availed for a group of 3 or more participants when nominations received from the same organization.

### Please Note

- All enrolments are subject to review and approval by the NPTI. Joining Instructions will be sent to the selected candidates 10 days prior the start of the program
- The program fee should be received by the NPTI Executive Education Office before the programme commencement date.
- In case of cancellations, the fee will be refunded only if a request is received at least 10 days prior to the start of the programme.
- A certificate of participation will be awarded to the participants by NPTI.

## Pre-requisites

Basic computer familiarity is required for this program. Participants are expected to bring Windows laptops. Participants with non-technology background are also strongly encouraged to apply. RPA is for all and can benefit all employees.

## Application Link

The link for applying to the course: <https://forms.gle/CCcwAkRH3UNz8aQ27>



## Faculty Members



### Dr. Mudit Kulshreshtha

NPTI

Dr. Mudit Kulshreshtha has significant academic and industry experience of more than 24 years. He is currently consulting data scientist at NPTI. He has been Professor and Co-director of Center of Excellence for Analytics at Great Lakes Institute of Management, resident faculty at IIM Kashipur and visiting faculty at IIM Lucknow. Earlier he led the Analytics Practices at Deloitte Consulting, Angel One and WNS. He also has significant industry experience as vice president and Head of Analytics and Customer Insights team at PAYBACK, an American Express Company, running analytics for India's largest coalition loyalty program with clients such as Future Group (Big Bazaar), ICICI Bank, eBay and Make MY Trip and Central. The Analytics team headed by Mudit was awarded the 'Best Big Data Analytics Team of the Year' at the Customer Loyalty Summit and Best Use of Customer and Data Analytics in a Loyalty Program in 2017.

He had a significant stint at Deloitte Consulting as Director and Head of Analytics for Region 10 where he also established and ran the M & A Center of Excellence for Deloitte Consulting global clients. He was also Executive Director of the Business Intelligence and Advanced Analytics department at Angel One. Prior to this he was AVP in the Transactions Advisory practice at Ernst and Young. Dr. Mudit has received education at IGIDR, (an advanced research institute of RBI), IIT Delhi and NIT Allahabad, India.



### Dr. Gautam Das

NPTI

Dr. Gautam Das completed his Bachelors in Electronics Engineering from NIT Nagpur, MTech in Computer Engineering from IIT Kharagpur and Ph.D. in International Economics, Indian Institute of Foreign Trade (IIFT), Delhi on Foreign Direct Investment. He has also done 'Six Sigma Master Black Belt' an advanced Statistical Analysis course at Indian Statistical Institute.

As a Data Science and Business Analytics thought leader, he has 30+ years of corporate experience in IT, Automation & Data Analytics [Statistical Analysis, Econometrics Modelling], AI & Machine Learning, Big Data Analytics, etc.

He was the Global Head / Chief Data Scientist for Business Analytics Consulting wing at TCS and Senior Data Scientist at IBM. Thereafter he served as Chief Data Scientist at Power Foundation of India – the think-tank of Ministry of Power, Govt. of India. Currently he is CEO and Chief Data Scientist at insAnalytics and Consulting Data Scientist at NPTI.

He has designed industry tuned curriculum and taught Data Science, AI Machine Learning, Business Analytics, Sustainability and Shared Economics at various premier institutes like IIT-Kharagpur, IIM-Calcutta, IIM-Lucknow etc.

### Program Coordinators

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