# CENTRE OF EXCELLENCE—

# ION-MISSION OF INSTITUTE

## Vision of Institute

To be an outstanding institution in the country imparting technical education, providing need-based, value-based and career-based programs, and producing self-reliant, self-sufficient technocrats capable of meeting new challenges.

## Mission of Institute

The mission of the institute is to educate young aspirants in various technical fields to fulfill The global requirement of human resources by providing sustainable quality education, training, and an invigorating environment besides molding them into skilled competent and socially responsible citizens who will lead the building of a powerful nation.

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# UiPath

# Robotics Process Automaton

- Robotics is software that can navigate across different IT systems to work the way a human does.
- Robotics process automation (RPA) is the most commonly adopted type of robotics solution thus far.
- RPA automates heavily rules-based processes with structured data;  Think If, Then, Else…

Key Terms

**Robot = "Bot"**

- An individual agent or "virtual worker" capable of performing tasks assigned to it.
- Alternatively with some tools, a bot can refer to the automated task itself.

**Configuration**

- The action of creating an automation for a process or activity within a robotics software platform.
- Alternatively, some companies may use the terms "program," "develop," or "train."

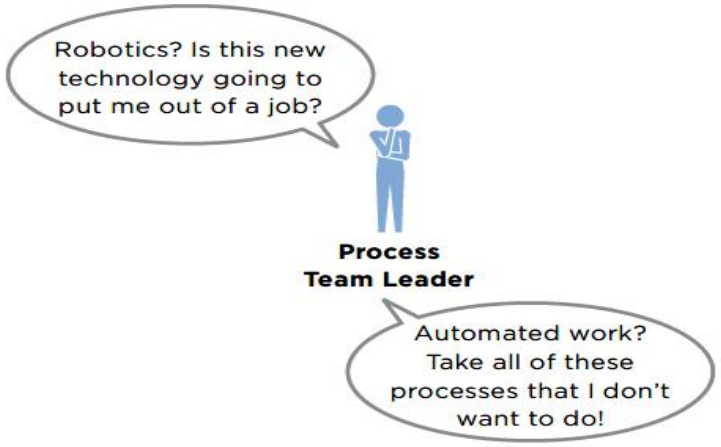
**Vendor/Tool Examples**

- Automation Anywhere, Blue Prism, UiPath, Workfusion, IBM Watson, Amelia, NICE, Redwood, Pega, Kofax.

# REFRAME ROBOTICS AS CONTINUOUS IMPROVEMENT

Initial Stakeholder Reactions to Robotics
*Illustrative*

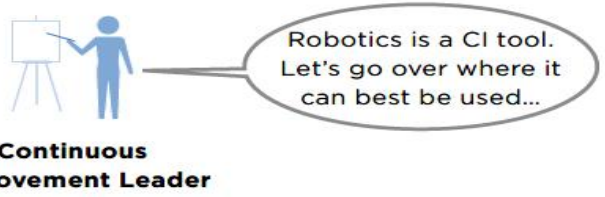
**When stakeholders are fearful** that robotics will take away their jobs, they avoid offering suggestions for automation opportunities.




**When stakeholders do not fully understand** the capabilities of robotics, they may submit complex, undocumented activities as automation opportunities.

Robotics Continuous Improvement Education Session
*Illustrative*

| Tool | Time to Implement |
|---|---|
| Robotics | Weeks |
| Value Stream Mapping | Weeks-Months |
| Six Sigma | Months |
| Process Re-engineering | Months/Year |




**Approach:** Train regional continuous improvement teams to pitch robotics as a process improvement tool to be considered alongside value stream mapping, six sigma, and process re-engineering.

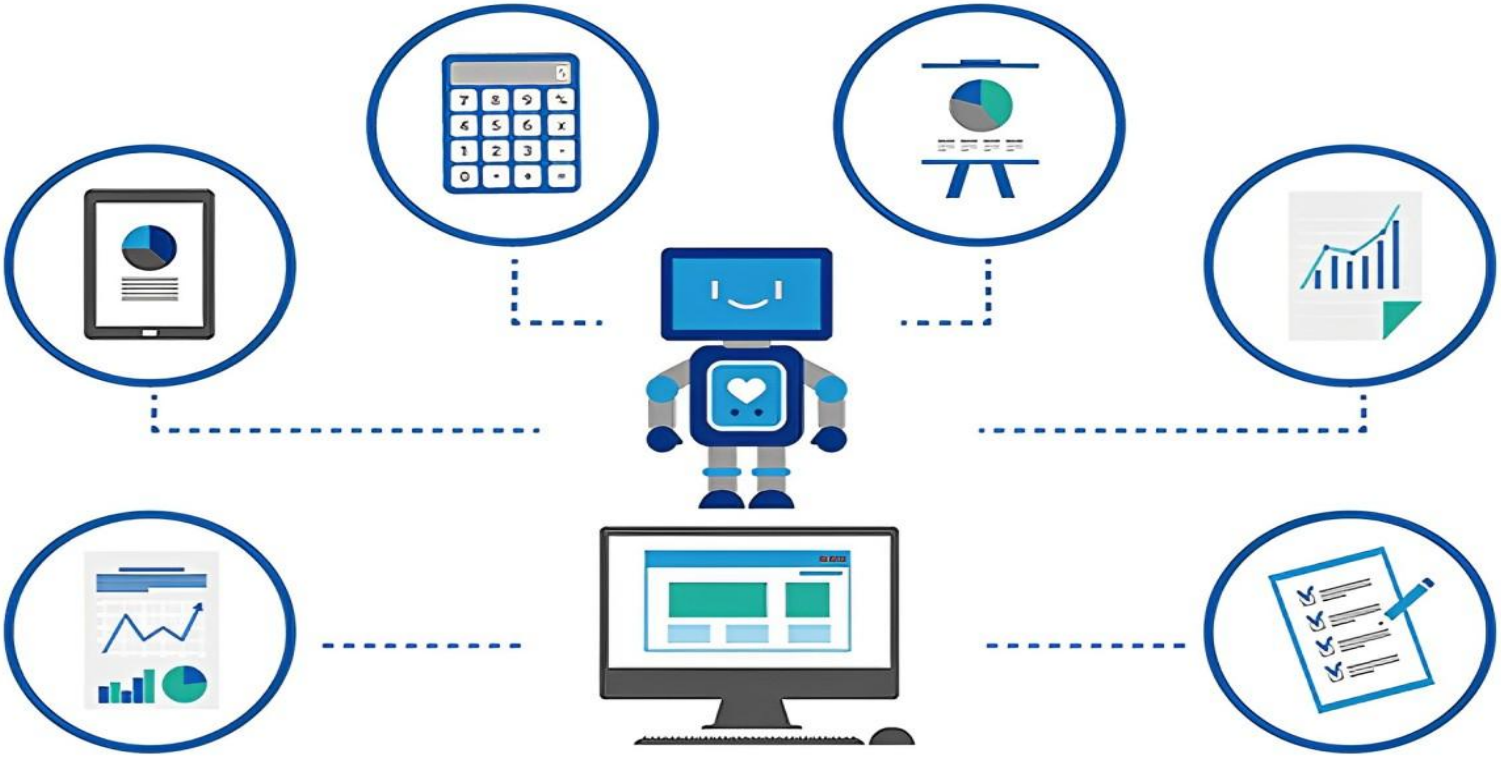
**Result:** Stakeholders approach robotics with a clearer understanding of its capabilities, and they suggest more ideal opportunities.

# ATH MARKET PLACE

**Figure 1: Magic Quadrant for Robotic Process Automation**

Source: Gartner (August 2023)

# HOW UIPATH AUTOMATE THE BUSINESS PROCESS



# ECTIVE:

RPA automates repetitive business processes in industries, including banking, IT, human resources and healthcare.

The software bots RPA uses can understand what's on a display, navigate systems, input keystrokes, identify data, extract data as well as perform various other actions.

When combined with artificial intelligence (AI) and machine learning, RPA can capture more context from the content.

Career Oriented learning path for students.

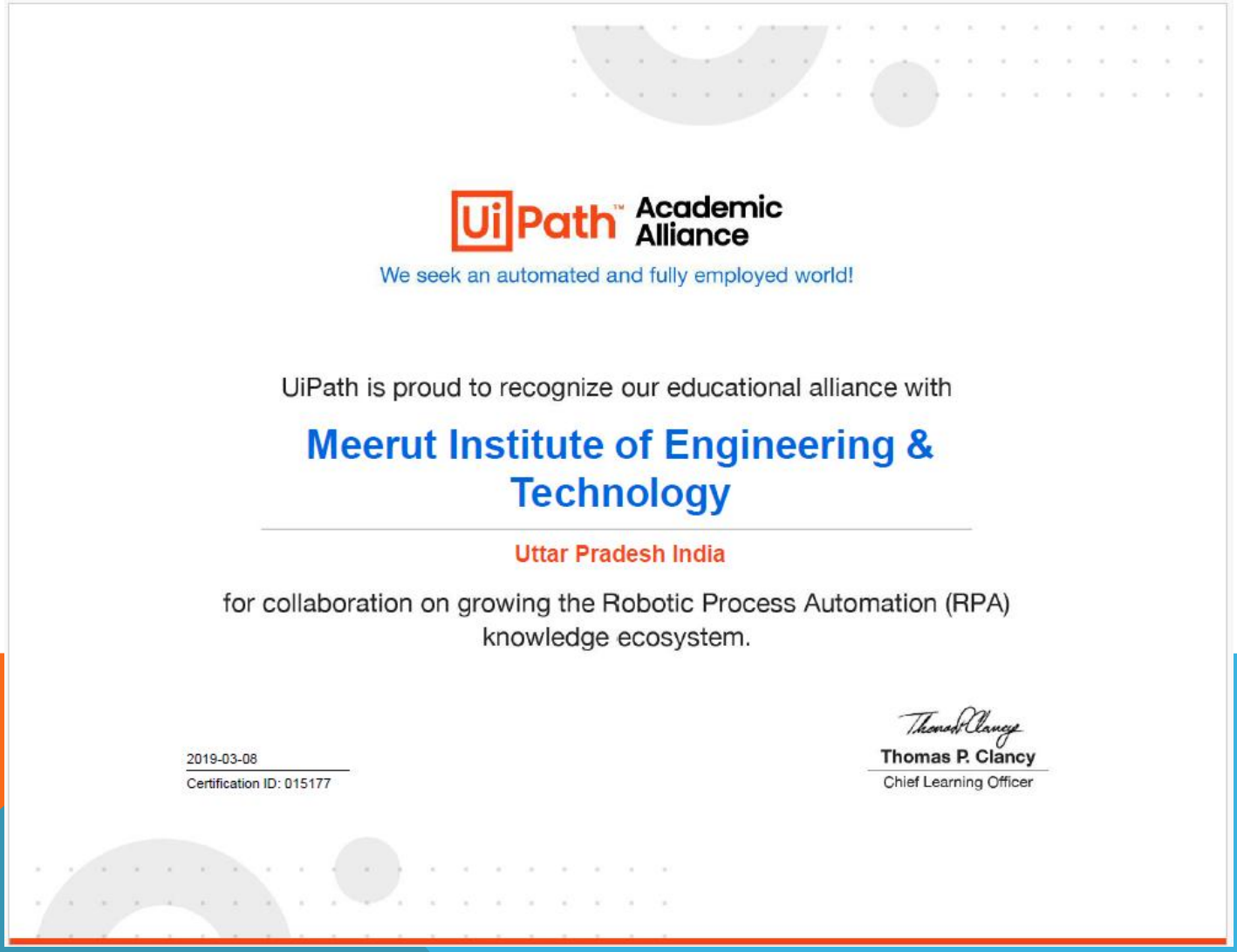
# Advisory board members/active member details:

| S.NO | NAME | DEPARTMENT | CERTIFICATION |
|---|---|---|---|
| 1 | Dr. Sanjay Kumar Singh | Director Campus, MIET Meerut. | - |
| 2 | Dr. Swati Sharma | HOD IT/CSIT, MIET Meerut | - |
| 3 | Mr. Shailendra Singh | Placement Coordinator, MIET Meerut | - |
| 4 | Mr. Punit Mittal | SPOC RPA MIET Meerut | Advanced RPA Developer |

# Coordinator details

| S.NO | NAME | DEPARTMENT | CERTIFICATION |
|---|---|---|---|
| 1 | Mr. Punit Mittal | SPOC RPA MIET Meerut | Advanced RPA Developer |

# MEMORANDUM OF UNDERSTANDING



# LIST OF EQUIPMENT

## Hardware Requirements

| | Minimum | Recommended |
|---|---|---|
| **CPU Cores** | 2 × 1.8 GHz 64-bit (x64) | 4 × 2.4 GHz 64-bit (x64) |
| **RAM** | 4 GB of usable system memory | 8 GB |
| **Disk Space** | 3.5 GB for new installations, 5 GB for upgrades (including temporary files required during installation) | N/A |

# TWARE REQUIREMENTS

- **Operating System:** 8.1 or greater
- **.NET Framework:** Version 4.6.1 or greater
- **Web browser:** Microsoft Edge 78 or greater with Internet Explorer (IE) mode, Google Chrome version 64 or greater
- **Microsoft Office:** Office 2013 or greater version
- **File System:** NTFS

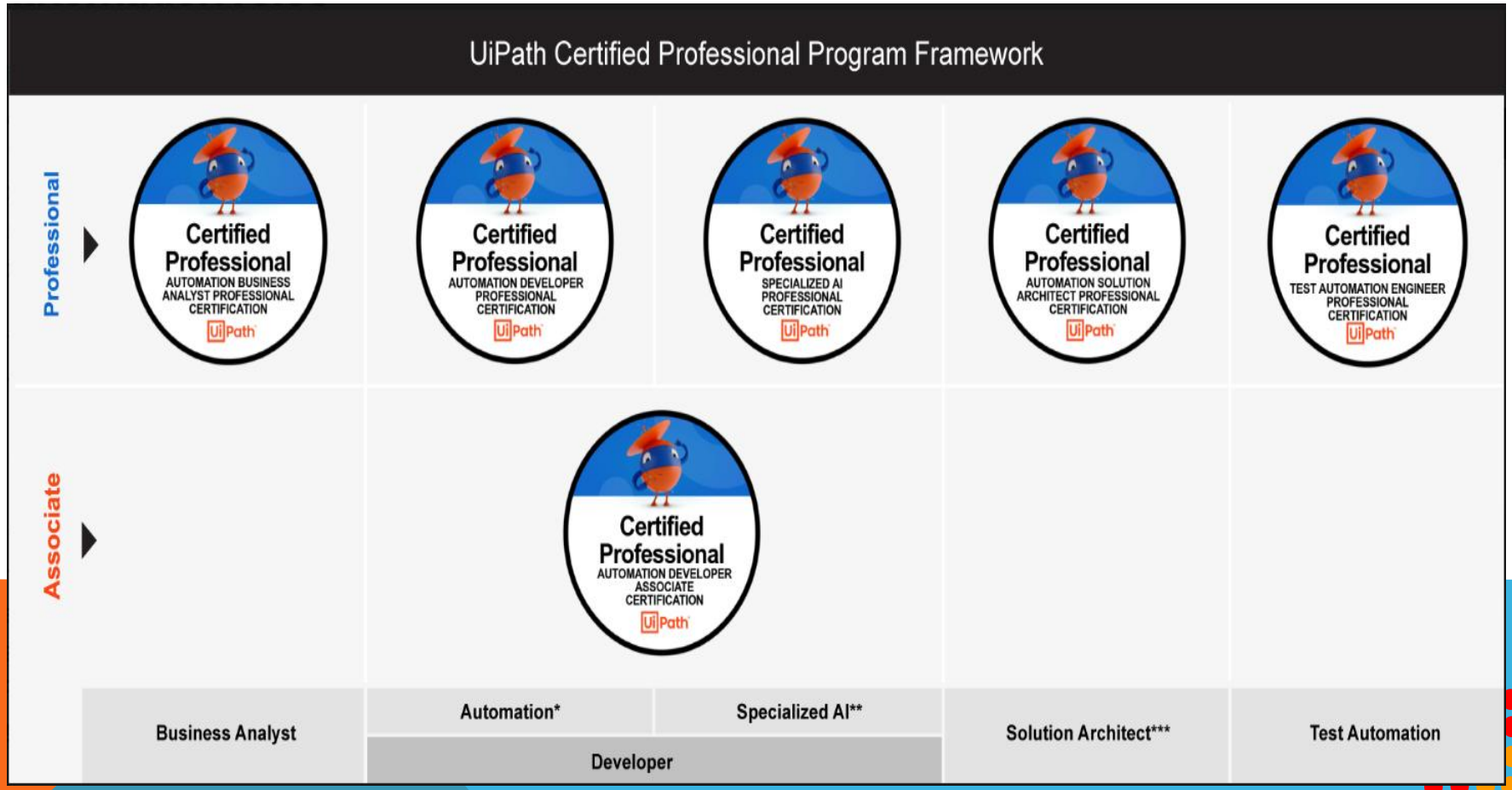
# OF EXPERIMENTS/CONTENTS TO STUDENTS:-

| V Semester | | |
|---|---|---|
| **Lab No.** | **Topics** | **Duration** |
| 1 | Robotic Process Automation – Introduction, Working | 2 Hrs. |
| 2 | Basics, Installation and Understanding User Interface Components | 2 Hrs. |
| 3 | Automation Projects and Their Debugging | 2 Hrs. |
| 4 | Workflow Design 1 | 2 Hrs. |
| 5 | Workflow Design 1I | 2 Hrs. |
| 6 | If-else | 2 Hrs. |
| 7 | Loop | 2 Hrs. |
| 8 | Flowcharts | 2 Hrs. |
| 9 | Dictionary | 2 Hrs. |
| 10 | Array Implementation | 2 Hrs. |

# OF EXPERIMENTS/CONTENTS TO STUDENTS:-

| VI Semester | | |
|---|---|---|
| 1 | Browser Automation-I | 2 Hrs. |
| 2 | Browser Automation-II | 2 Hrs. |
| 3 | Recording | 2 Hrs. |
| 4 | Application Automaton-1 | 2 Hrs. |
| 5 | Data scraping and screen scraping | 2 Hrs. |
| 6 | Excel Automation-1 | 2 Hrs. |
| 7 | PDF Data Extraction & Automaton | 2 Hrs. |
| 8 | Email Automation | 2 Hrs. |
| 9 | Orchestrator-1 | 2 Hrs. |
| 10 | Orchestrator-1 | 2 Hrs. |

# ADMAP:-

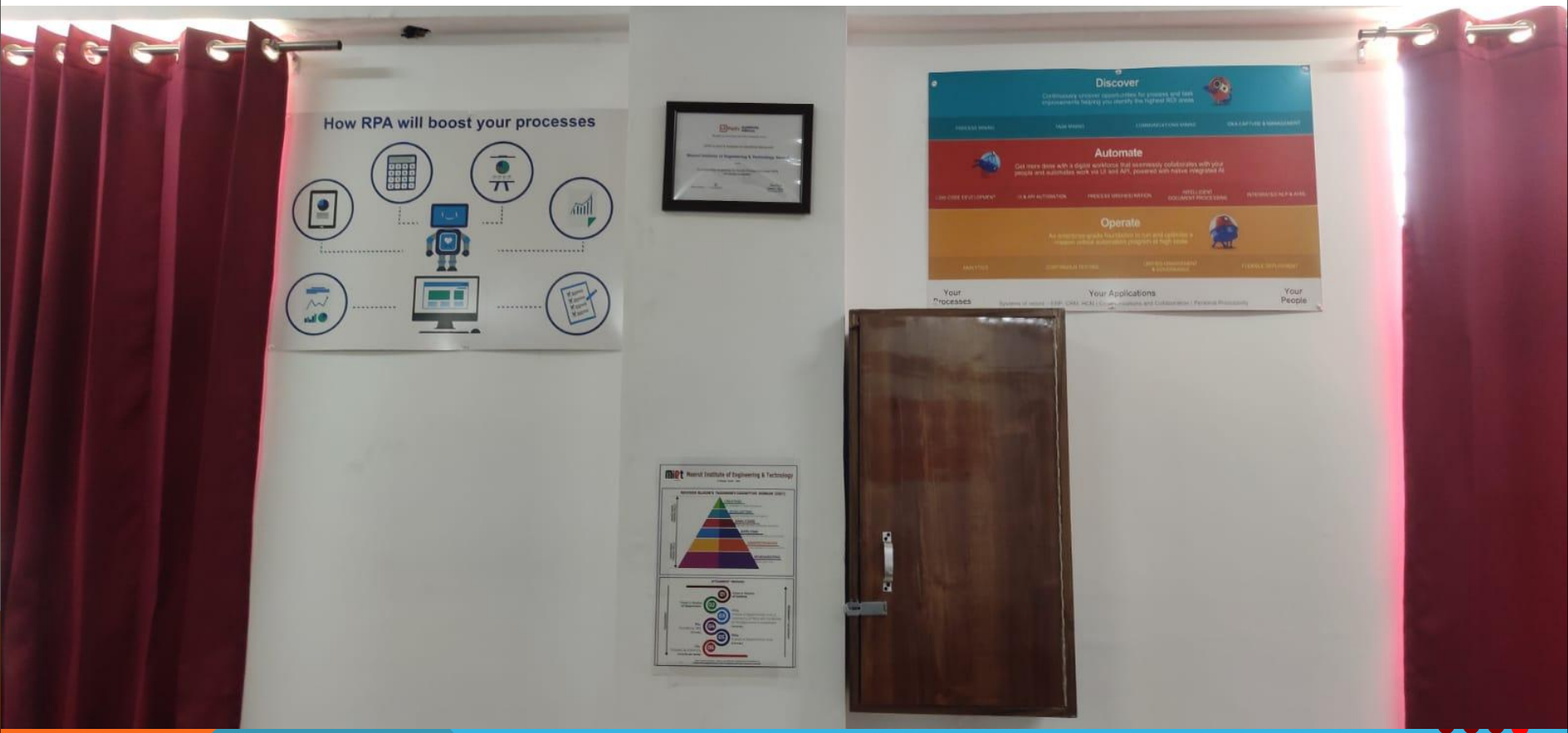

UiPath Certified Professional Program Framework
Professional
Certified Professional AUTOMATION BUSINESS ANALYST PROFESSIONAL CERTIFICATION
Certified Professional AUTOMATION DEVELOPER PROFESSIONAL CERTIFICATION
Certified Professional SPECIALIZED AI PROFESSIONAL CERTIFICATION
Certified Professional AUTOMATION SOLUTION ARCHITECT PROFESSIONAL CERTIFICATION
Certified Professional TEST AUTOMATION ENGINEER PROFESSIONAL CERTIFICATION
Associate
Certified Professional AUTOMATION DEVELOPER ASSOCIATE CERTIFICATION
Business Analyst
Automation*
Specialized AI**
Developer
Solution Architect***
Test Automation

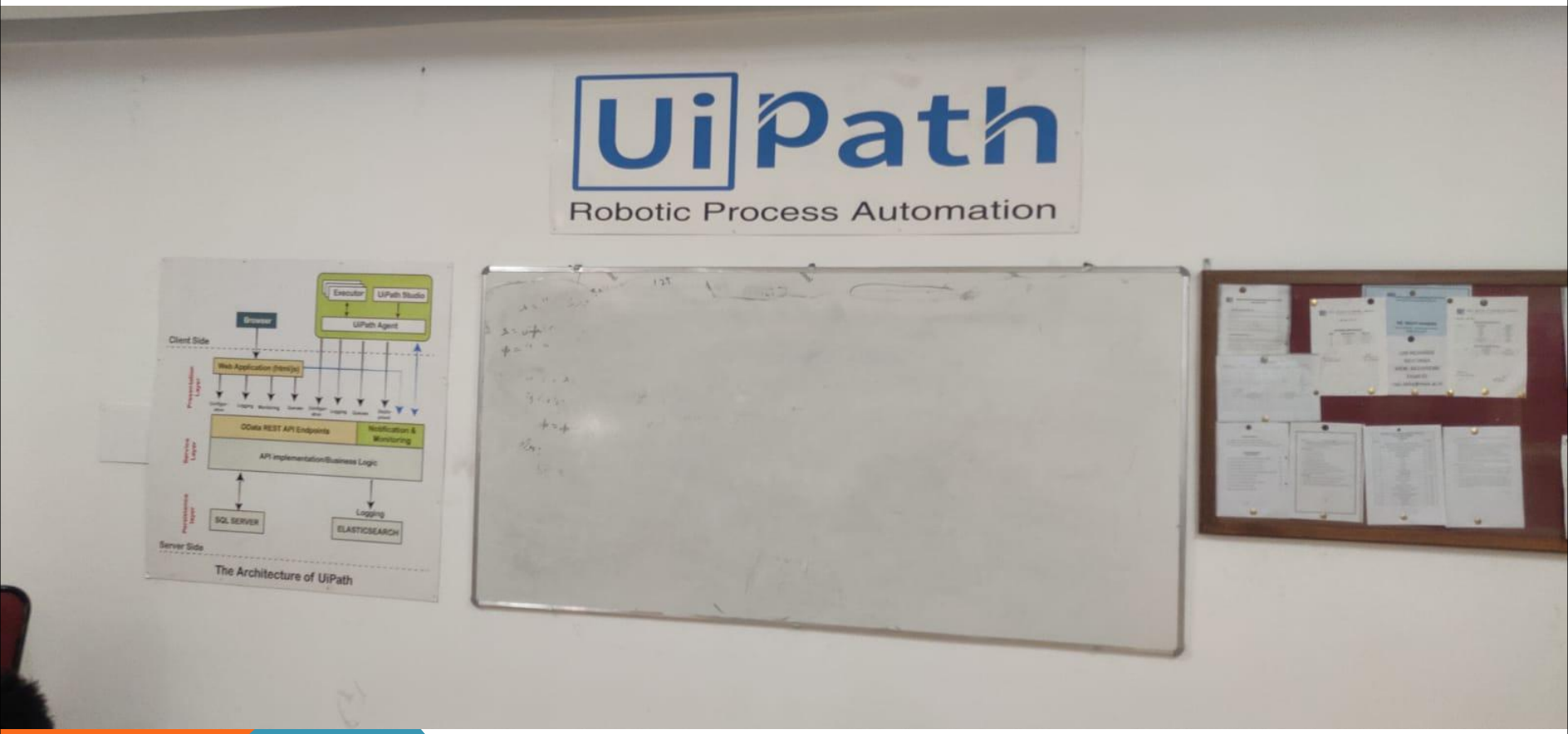
# COME:

A Total of 20 students were placed through this training in TCS.

| S. No. | Roll. No. | NAME OF STUDENTS |
|---|---|---|
| 1 | 1606810029 | AHTASHAM ANSARI |
| 2 | 1706814001 | ANKITA RASTOGI |
| 3 | 1606813007 | ANUMEHA GARG |
| 4 | 1606810079 | APOORVA |
| 5 | 1606810089 | ARUSHI JAITLEY |
| 6 | 1606810106 | AYUSH SOM |
| 7 | 1606810141 | GUNJALI MOORJANI |
| 8 | 1629210043 | HIMANSHU THAKUR |
| 9 | 1629210047 | KM. SAPNA AGARWAL |
| 10 | 1606810168 | LAKSHAY GUGLANI |
| 11 | 1606810204 | MUSKAN VERMA |
| 12 | 1606810250 | PUNEET GUPTA |
| 13 | 1606810251 | RACHIT ARORA |
| 14 | 1606810252 | RAGHAV BANSAL |
| 15 | 1629210078 | RITIKA AGARWAL |
| 16 | 1606810293 | SHIVAM VATS |
| 17 | 1606810317 | SHUBHI SHARMA |
| 18 | 1606810326 | SUMIT KUMAR |
| 19 | 1606810341 | TUSHAR GARG |
| 20 | 1629210101 | UTKARSH BHARDWAJ |

# TO GALLERY


How RPA will boost your processes
Discover
Automate
Operate
Your Applications
Your People


UiPath
Robotic Process Automation
Executor
UiPath Studio
Browser
UiPath Agent
Client Side
Web Application (html/js)
OData REST API Endpoints
Notification & Monitoring
API implementation/Business Logic
SQL SERVER
Logging
ELASTICSEARCH
Server Side
The Architecture of UiPath

# THANK YOU