

# INDUSTRIAL AUTOMATION FUNDAMENTALS



**Eligibility:** B.E./ B.Tech./ Diploma in Engineering(Mechanical, Production, Electrical, EC, EEE, Automobile, Robotics & Automation, CS & IT, Mechatronics, IC or equivalent.) (Pursuing / Completed)(Year of passing: 2019-2026)

## MODULES

### 1. Advanced mechatronics on pneumatics, electro pneumatics and hydraulics

Pneumatic and hydraulic systems for industrial automation. Design, troubleshoot, and integrate complex mechatronic systems to enhance automation efficiency. Apply advanced principles to optimize solutions for industrial automation challenges.

### 2. PLC, SCADA & HMI

PLC programming, SCADA, HMI design, and sensors. Understand sensor principles, data acquisition, and real time monitoring. Proficiently troubleshoot and optimize industrial processes.

### 3. Electrical switchgear, motor and circuits

Electrical switchgear systems and components. Motor theory, operation, and maintenance. Practical skills for safe and efficient electrical equipment handling. Design, troubleshoot, and manage electrical systems effectively.

### 4. Industrial visits & projects

Industrial visits and real-world projects to develop optimized automation solutions, prioritizing safety, efficiency, and learn principles while meeting project requirements.

### 5. Human skills

Interactive workshops, role-playing, and real-world simulations, fostering empathy, communication, adaptability, and leadership for holistic skill development.



Admission Confirmation Fee: ₹ 4,000

**COURSE FEES**

**₹ 22,000**

**DURATION**

**12 WEEKS**

SCAN TO REGISTER



# TATA IIS

TATA INDIAN INSTITUTE OF SKILLS

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**PLACEMENT ASSISTANCE AVAILABLE**

**SKILL LOAN**

In partnership with: 