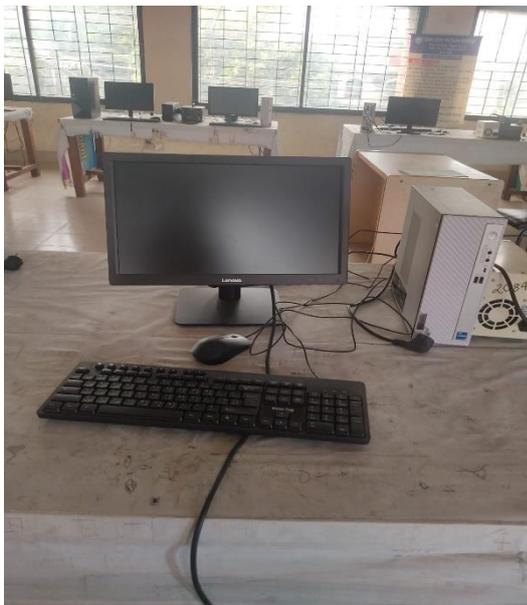# PD LAB

## Programmable Device  Lab:

A Programmable Device Lab is a specialized facility designed for experimenting with, programming, and testing various programmable hardware devices. These devices include microcontrollers, field-programmable gate arrays (FPGAs), programmable logic controllers (PLCs), and embedded systems. The lab is equipped with hardware platforms, development boards, and software tools that allow users to write code, configure hardware settings, and simulate real-world applications. It provides hands-on learning opportunities for students and professionals in fields such as electronics, robotics, automation, and communication, helping them gain practical experience in designing and implementing complex systems.



Desktop computer                                                                MDA 8086

Smd soldering and de soldering station



8051 microcontroller trainer

# Here are key aspects typically associated with Programmable device lab:

**1. Programmable Hardware:** Includes microcontrollers, FPGAs, and programmable logic devices.

**2. Development Tools:** Provides software for coding, debugging, and hardware configuration.

**3. Hands-on Experimentation:** Supports practical learning through programming and testing of devices.

**4. Real-time System Testing :** Allows testing and validation of real-time applications.

**5. Embedded System Design:** Facilitates development of embedded systems for various applications.

**6. Hardware Prototyping:** Enables the creation and testing of hardware prototypes.

**7. Interdisciplinary Applications:** Useful in fields like robotics, automation, and communication

## List of equipment in the Programmable Device Lab:

| | | | | | | |
|---|---|---|---|---|---|---|
| | 8051 Microcontroller | 905 | 2 | | Step | InActive |
| | Document Camera | 492 | 1 | | | Inactive |
| | Arduniio uno R3 | 498 | 1 | | | Active |
| | Air conditioner | 2018 | 3 | | | InActive |
| | Laser Printer | 2051 | 1 | | | Inactive |
| | Laptop adapter | | 1 | | | InActive |
| | Public address system | 2082 | 1 | | | Inactive |
| | Smd soldering and de soldering station | 2084 | 5 | | | Active |
| | Desktop computer | 2087 | 06 | | | Active |
| PD LAB | Logic Circuit Trainer | 2062 | 1 | Student | Govt. | Active |
| | 8051 microcontroller trainer | 2083 | 10 | | | Active |
| | De-Humidifier Kelunimeter | 410 | 1 | | | Inactive |
| | Electrical Blower | 2094 | 2 | | | Active |
| | Hand Magnifier LED light With Soldering Stand | 2094 | 5 | | | Active |
| | High Frequency Desktop | 2060 | 3 | | | Active |
| | Multimedia Projector with Ceiling Installation | 2096 | 04 | | | Active |
| | Multimedia Projector | 926 | 1 | | | Inactive |
| | Projector Screen | 926 | 1 | | | InActive |
| | Table | | 8 | | | Active |
| | Chair | | 9 | | | Active |
| | reck | | 2 | | | Active |
| | fan | | 11 | | | Active |
| | light | | 13 | | | Active |
| | File Cabinet | | 1 | | | Active |
| | Almirah | | 2 | | | Active |

## Name of the Craft Instructor in charge of PD Lab:

| S N | Picture | Name | Designation | Mobile No | Email Address |
|---|---|---|---|---|---|
| 1 | | Akib Ziauddin Chowdhury | Craft Instructor (Tech/Lab) Electronics Technology (1st Shift) | **01877194827** | akib.cvasu@gmail.com |
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