

# Basic Electronics Lab

## BE Lab:

A Basic Electronics Lab is a facility designed for learning and experimenting with fundamental electronic components and circuits. It is equipped with essential tools like multimeters, oscilloscopes, function generators, and breadboards. In this lab, students and professionals work with components such as resistors, capacitors, diodes, transistors, and ICs to design and analyze simple circuits. The lab provides hands-on experience in understanding the behavior of electronic devices, circuit troubleshooting, and the principles of analog and digital electronics. It plays a crucial role in building foundational knowledge in electronics engineering.



PCB Etching Machine



Ultrasonogram



Smd soldering and de soldering station & DC Power Supply



Color TV Trainer

## Here are key aspects typically associated with Basic Electronics lab:

- 1. Essential Equipment:** Includes multimeters, oscilloscopes, function generators, and breadboards.
- 2. Component Variety:** Provides basic electronic components like resistors, capacitors, diodes, and transistors.
- 3. Circuit Design and Analysis:** Enables the design and analysis of simple electronic circuits.
- 4. Hands-on Learning:** Supports practical understanding of analog and digital electronics.
- 5. Troubleshooting Skills:** Teaches circuit debugging and troubleshooting techniques.
- 6. Foundation for Advanced Study:** Builds foundational knowledge in electronics engineering.
- 7. Safe Experimentation :** Adheres to safety protocols for handling electronic components.

### List of equipment in the APD Lab:

APD LAB	Multiple PLC Trainer	2059	1	Student	Govt.	Active
	High Frequency Desktop	2060	4			active
	Hmi trainer module	2059	1			active
	Multitouch Interactive smart white	2059	1			active
	Liquid mixing trainer module	2059	1			Active
	Pcb cnc mailing machine	2059	1			Active
	Pcb etcing machine	2060	1			Active
	Iot trainer board	2060	5			Active
APD LAB	Star delta and dol starter trainer	2060	5	Student	Govt.	active
	3 phase transformer trainer	2060	3			Active
	Led tv trainer	2060	2			Active
	Logic Gate Tutor	2062	6			Active
	LED TV trainer	2061	2			Active
	Uv printer	2066	1			Inactive
	Gsm trainer	2082	3			Active
	Logic Circuit Trainer	2062	3			Active
	Satellite Receiver	405	2			InActive
	Basic Electronic Trainer	408	1			InActive
	Table		8			Active
	Chair		2			Active
	Fan		6			Active
	Light		7			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 (1 <sup>st</sup> Shift)	<b>01877194827</b>	akib.cvasu@gmail.com
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