Advance Programmable Device Lab

APD LAB:

Advanced Programmable Device Lab focuses on cutting-edge programmable hardware technologies and systems, offering a more sophisticated environment for experimentation and development compared to standard labs. It typically features high-end devices such as advanced FPGAs, complex microcontrollers, system-on-chip (SoC) platforms, and digital signal processors (DSPs). The lab provides tools for designing and testing highly complex and efficient hardware systems, enabling research in areas like artificial intelligence, robotics, IoT, and automation. With advanced simulation software and programming tools, this lab is crucial for developing next-generation technologies and innovation in embedded systems and digital design.
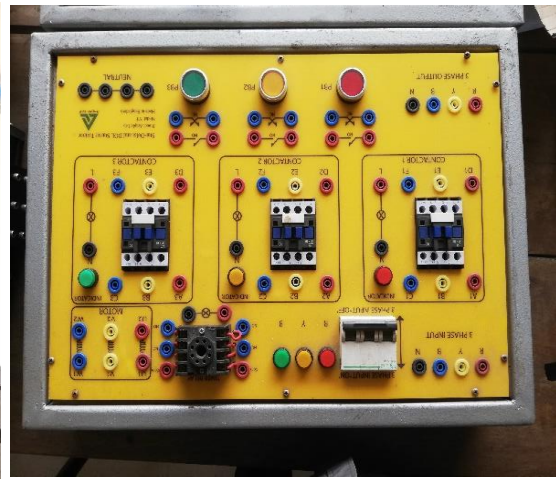

Multiple PLC Trainer   LCD TV Trainer

Interactive Smart Board

Star Delta

Here are key aspects typically associated with Advance Programmable Device   lab:

1. High-end Programmable Devices: Includes advanced FPGAs, SoCs, and microcontrollers.

2. Cutting-edge Development Tools: Provides sophisticated software and hardware platforms for complex designs.

3. **Real-time Simulation and Testing: Enables real-time testing of programmable hardware with precise control.**

4. **Focus on Innovation: Supports research in AI, robotics, IoT, and automation.**

5. **Scalable Design Prototyping: Allows the creation and testing of scalable and efficient hardware systems.**

6. **Interdisciplinary Collaboration: Encourages work across fields like embedded systems, digital design, and machine learning.**

7. **Advanced Debugging Tools: Offers high-level debugging and troubleshooting capabilities for complex systems.**

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 (1st Shift)	**01877194827**	akib.cvasu@gmail.com
2		Bidan Chakma	Craft Instructor (Shop) Electronics Technology (1st Shift)	**01554571442**	bidanbidan@gmail.com
3		Annesha Datta	Craft Instructor (Shop) Electronics Technology (2nd Shift)	**01858126090**	Anneshadatta2023@gmail.com