

AI Lab Setup Guide for Schools

Teacher Training Guide · Module 14 of 15 · CHERIEDU Academy

1. Minimum Requirements for an AI Classroom

Resource	Minimum	Ideal
Devices	1 per 3 students	1 per student
Internet	10 Mbps broadband	50+ Mbps with WiFi
RAM per device	4 GB RAM	8 GB RAM
Software	Chrome browser + Google account	Python, VS Code, Anaconda
Display	1 projector	Interactive smart board

2. Free Software Stack (Zero Budget Required)

Tool	Purpose	Install?
Google Colab	Python + AI in browser	No — browser only
Teachable Machine	Image/audio/pose AI	No — browser only
Kaggle	Datasets + notebooks	No — browser only
Scratch + ML for Kids	AI for younger students	No — browser only
Canva AI	AI art and design	No — browser only

3. Suggested Lab Layout

- U-shape or cluster seating — students should be able to see each other and collaborate.
- Teacher workstation at the front with projector to demonstrate live code.
- Charging stations for all devices.
- One printed "Python Quick Reference" poster per table.
- AI concept posters on the walls (roles, pipeline steps, ethics principles).

4. Classroom Rules for AI Lab

1. Respect the machines — close apps when done, log out of accounts.
2. No personal data in AI tools — never enter real names, addresses, or passwords.
3. Experiment fearlessly — errors are how we learn, not a reason to give up.
4. Share discoveries — if you find something cool, share it with the class.
5. Think before you post — AI-generated content you create online represents you.

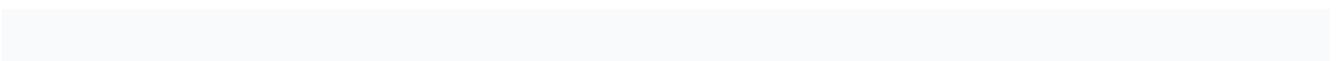
5. Low-Budget AI Lab Starter Kit (Under 150,000)

Item	Quantity	Estimated Cost
Refurbished laptops (4GB RAM)	10 units	130,000– 140,000

WiFi router (50 Mbps)

1 unit

12,000–13,000



Projector

1 unit

18,000– 112,000

Web cameras (for Teachable Machine)

5 units

13,000–15,000

