

ATAL TINKERING LAB

1. Introduction to ATAL LAB

The Atal Tinkering Lab, part of the Atal Innovation Mission in India, aims to encourage innovation and entrepreneurship among young people.

- This initiative, named after former Prime Minister **Atal** Bihari Vajpayee
- In electronics, **Tinkering** means making small adjustments or modifications to improve or repair devices/circuits.

Objectives

- Promoting innovation and creativity through hands-on experimentation.
- Developing critical thinking and problem-solving skills essential for future success.

STEM EDUCATION

- STEM education mixes different subjects like science, math, technology, and engineering together.
- In STEM education, you get to do things yourself rather than just reading or listening.

TOOLS:

- Driller
- Heat GUN
- Blower
- Screw driver set
- Various kinds of Pliers
- Digital multimeter
- OSCILLOSCOPE

COMPONENTS:

- 3D printer
- CNC Machine
- DRONES

STEM



Science • Technology • Engineering • Math



- TELESCOPE
- DIY ROBOTIC KITS
- SENSORS
- ARDUINO BOARDS

Components of Atal Tinkering Lab

- ATAL Lab equipped with tools and materials for hands-on experimentation.
- Prototyping equipment such as 3D printers, CNC machines, etc.
- Computers loaded with software for design, programming, and simulation.
- Robotics kits and electronic components for building and programming robots.

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