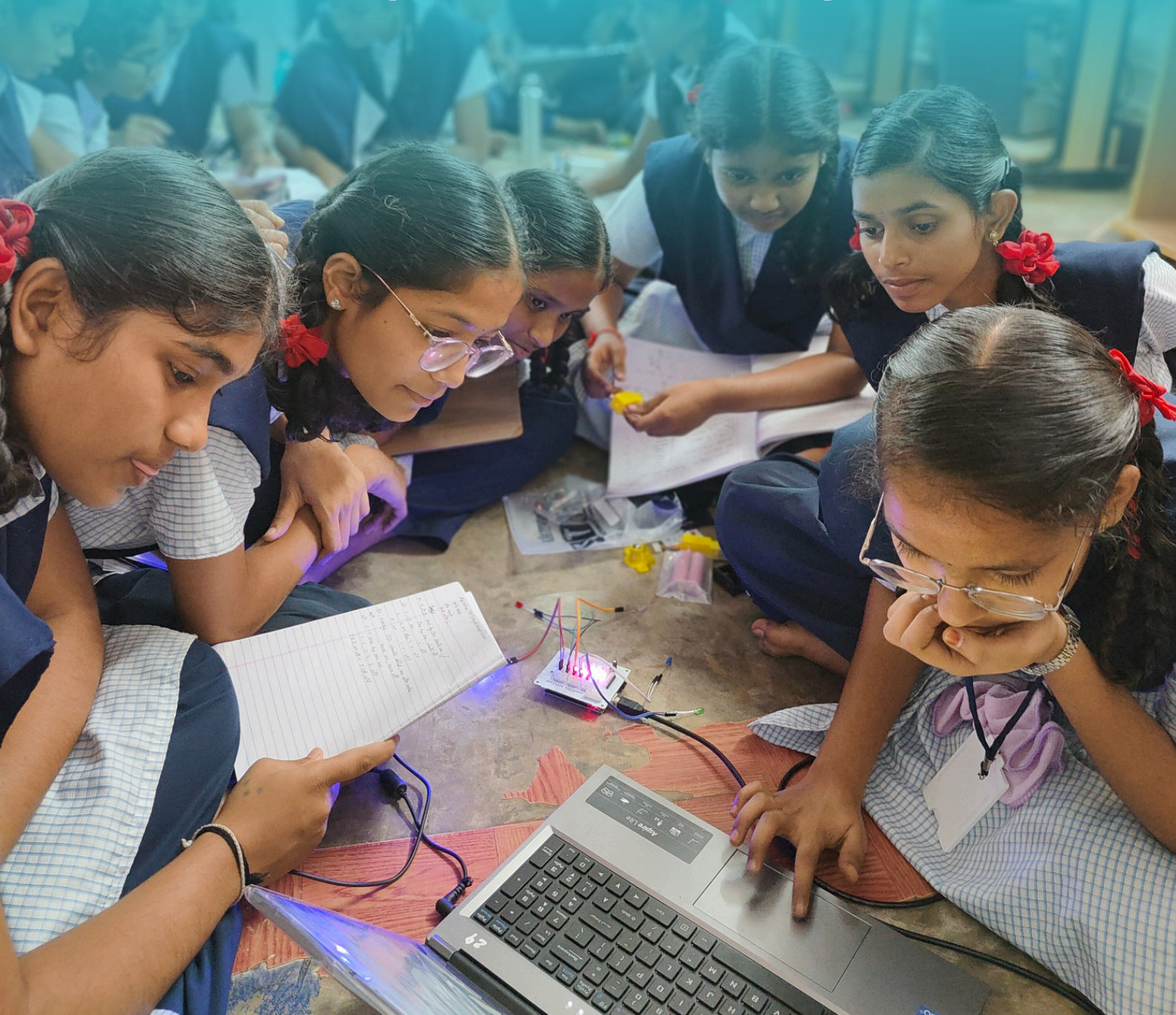




# MAKER LAB

A Maker Space for Future-Ready Minds.



## SKILL CLUB



Hands-On Science | **STEAM** | Design & Skill  
IoT & Robotics | Basic Electronics | AI & Coding

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[www.sciencecutsav.com](http://www.sciencecutsav.com)

# ITS MY STEM LAB WHERE I AM ..

Developing my motor skills.

Turning concepts into projects with help of design thinking

Becoming more logical and creative

Solving workbooks to develop higher order Thinking



## MAKER LAB

# SO I CAN INNOVATE, EXPLORE & SOLVE REAL WORLD PROBLEMS

Setting up an experiment for a research mindset

Learning first principle thinking

Solving concept maps to gain clarity

Exploring Surroundings



## DISCOVERY LAB

# 21ST CENTURY SKILL LAB

Building future-ready minds with the maker mindset.



## ROBOTIC LAB

Create simple robots with coding skills



## IOT & AUTOMATION LAB

Learn automation with sensors and controllers



## DESIGN LAB

Hub for Project Building Skills



## ELECTRONICS LAB

Essential electronics skills for beginners



## AI & CODE CLUB

Programming skills tailored to every age

# 1. MAKER LAB

- ⚙️ Concepts are aligned with the **School curriculum**.
- ⚙️ Transforms textbook concepts into **Tangible experiences**.
- ⚙️ Experience Kits, Designed and **Manufactured Kits** In-house.
- ⚙️ **8 STEM project-building kits** per grade, annually, for **Grades 1 to 10**.
- ⚙️ Training powered by a Learning Management System.

**80+ CONCEPT AND MORE THAN 250 PROJECTS TO BUILD**



## 2. DISCOVERY LAB

- Inhouse designed Portable , Scalable and fully equipped **Mobile science Station**
- Focuses on Research based **hands-on experiments for every grade based chemistry, Phsyics, Biology and Astronomy**
- Encourages **curiosity, questioning & investigation**
- **Aligned with curriculum** for progressive exploration

**Customized Mobile  
Science Station**

**Teaching Aids | Equipment | Instruments  
Consummables | Learning Materials**

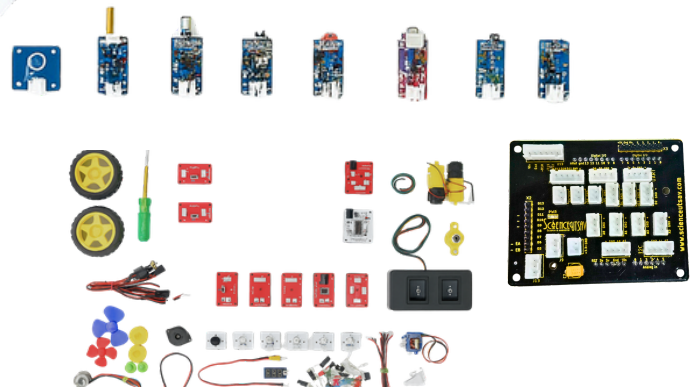


# ROBOTICS, IOT & AUTOMATION LAB

## Microcontroller and Shield



## Sensor-Based IoT Kit

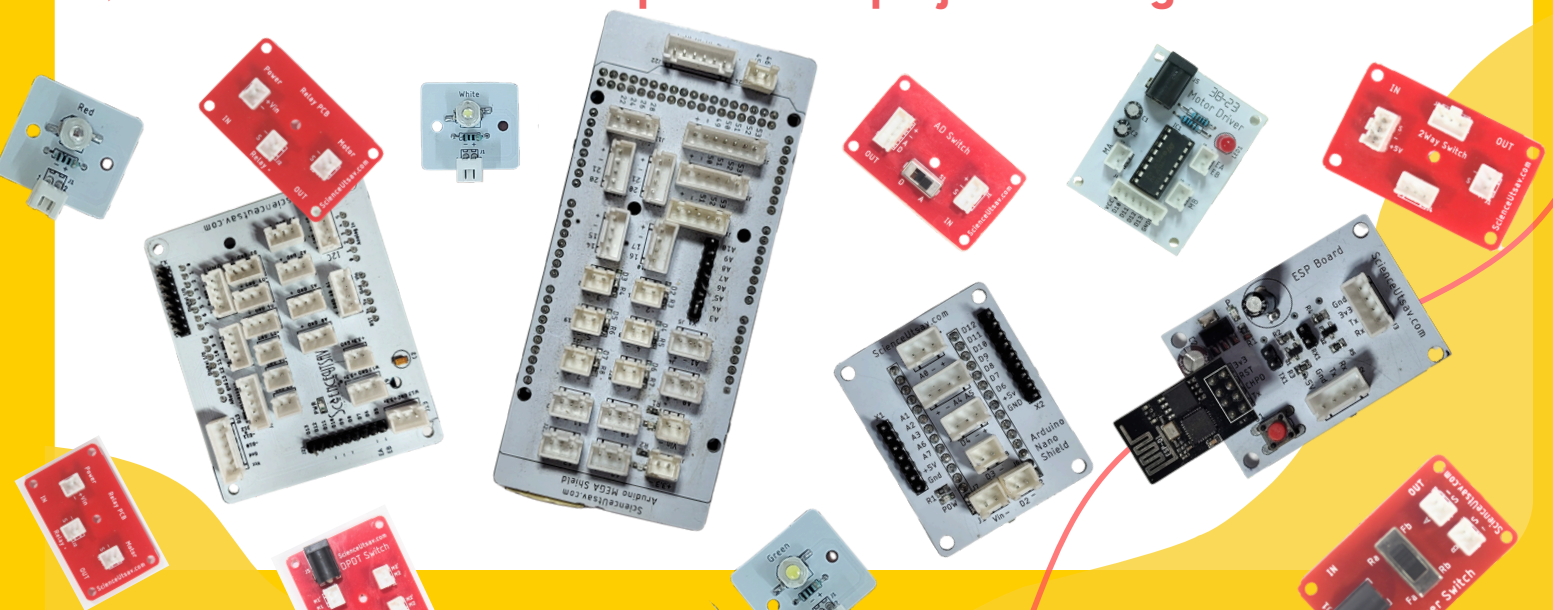


## Structure and Templates for prototyping

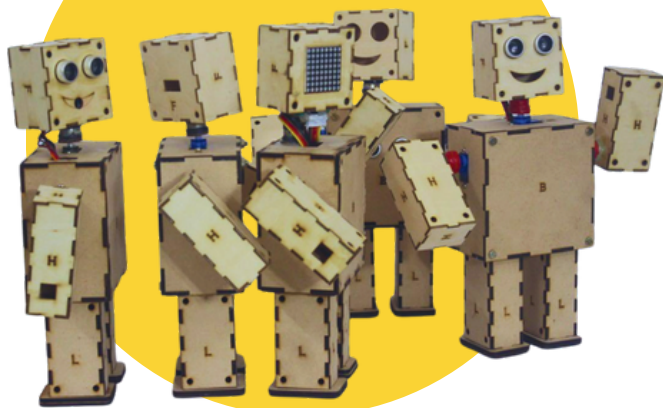


- SOPs for Lab Usages
- LMS for Teachers
- Teacher Training

- Customised **Microcontroller Shield** for easy connection
- Input devices such as **Sensors** and **Switches**
- Output devices including **Motors, Displays, Buzzer, Speakers** and **LEDs**
- Communication modules like **Wi-Fi, Bluetooth, and RF**
- **I2C, SPI, UART** and other serial communication devices
- Additional essential **components** for project building

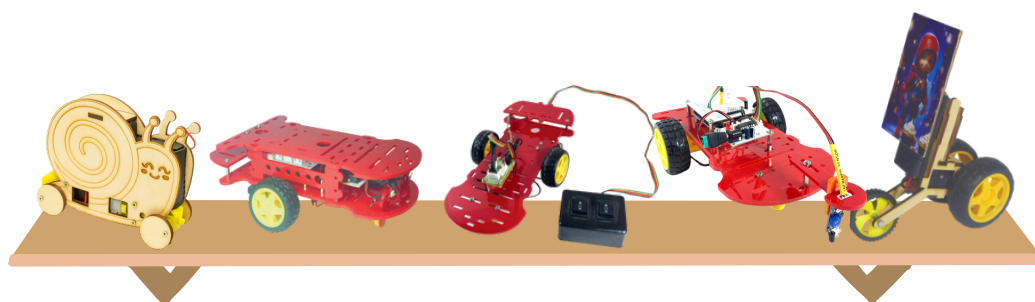
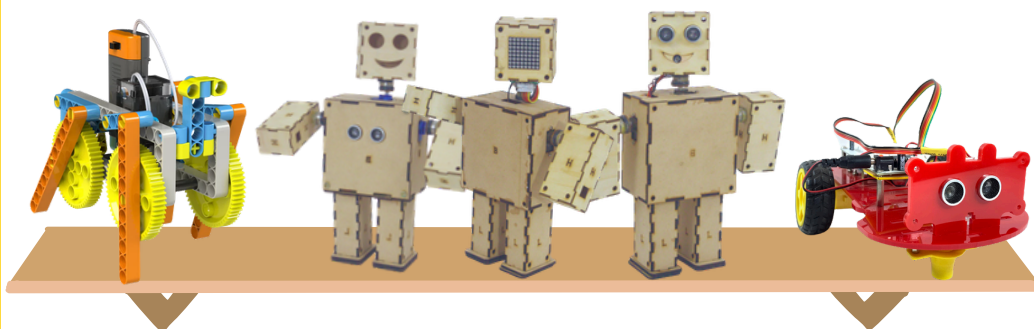
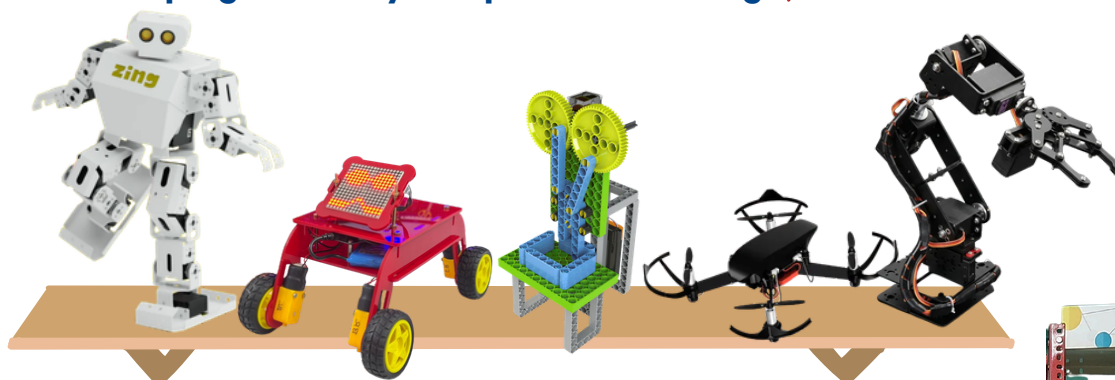


# 3.ROBOTICS LAB



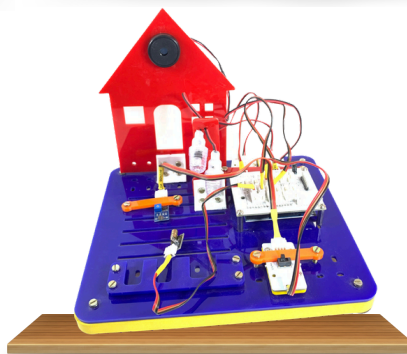
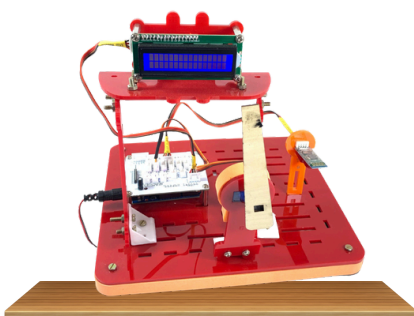
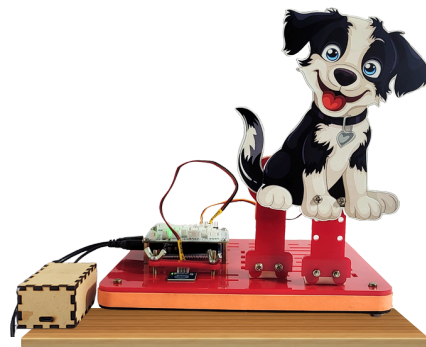
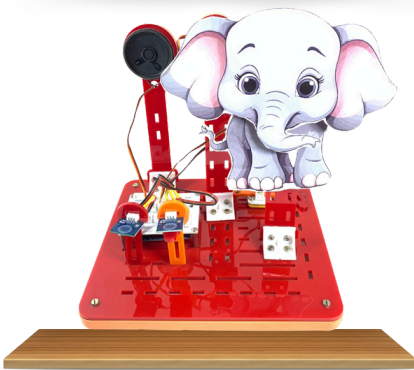
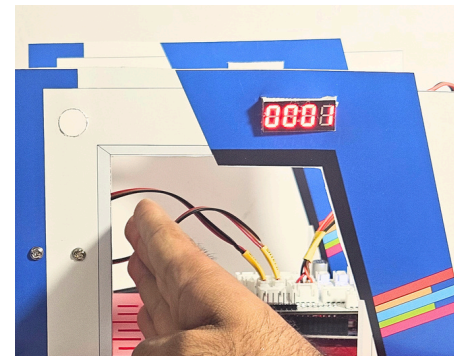
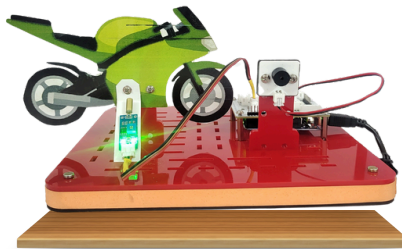
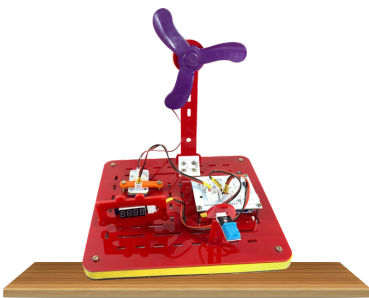
- Turns **robotics concepts** into real-world bots.
- Projects with **sensors, motors, controllers, and coding.**
- Future-ready skills for **Industry 4.0** and beyond.
- Introduction to **Mechatronics, Mechanism, Servos and Motors**

- 👉 Build 20+ exciting robots – from Line Following and Light Following to Wi-Fi powered machines
- 👉 Create Gesture, Voice, and Gyro Controlled Robots with real-world applications
- 👉 Explore advanced builds like Humanoids, Robotic Arms, Drones, while developing creativity and problem-solving 🚀

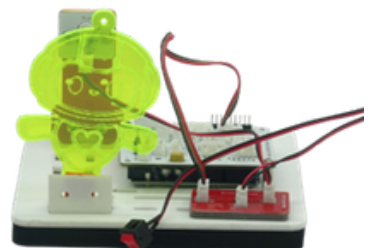
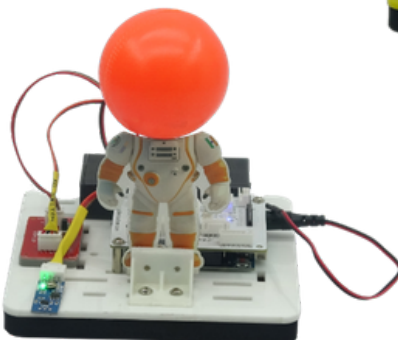
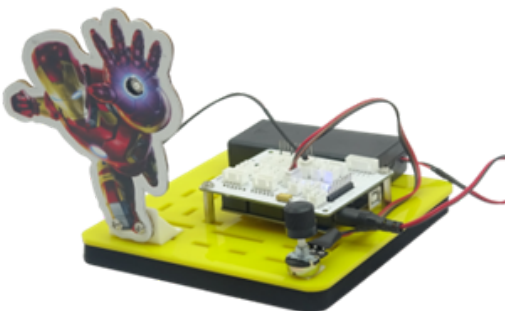
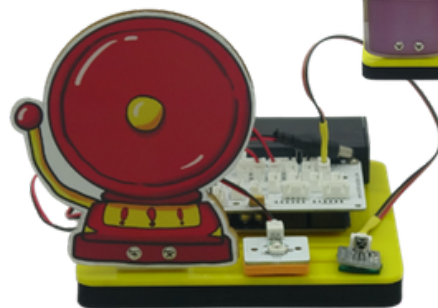
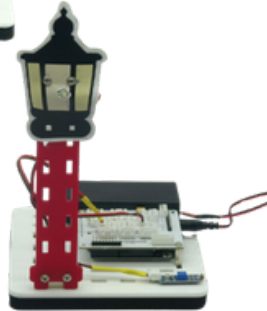


# 4. IOT AND AUTOMATION LAB

- Turns coding, electronics, and automation into real-world applications.
- Progressive kits from basics to advanced automation (Grades 6–12).
- Projects with sensors, actuators, microcontrollers, and coding.
- Fosters innovation, problem-solving, and a 21st-century maker mindset.



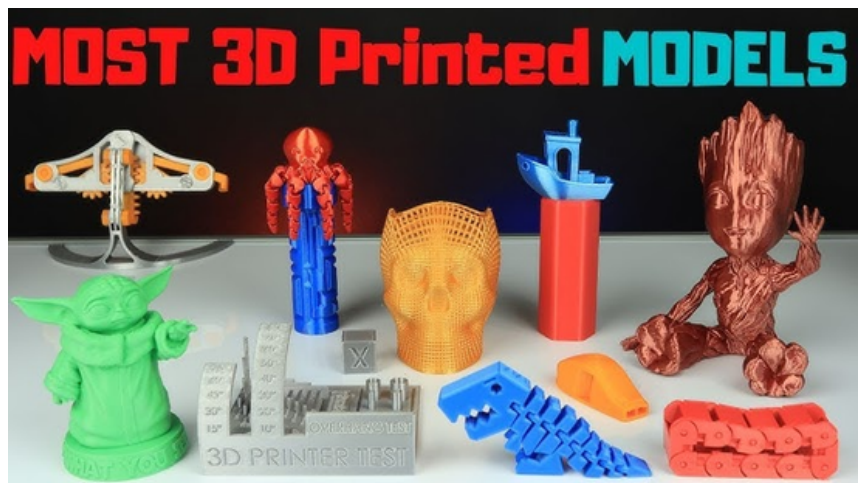
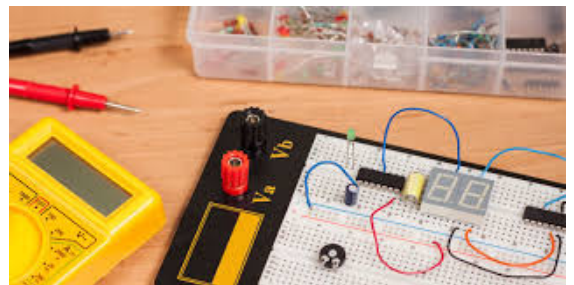
# 4.IOT AND AUTOMATION LAB





# 6. TINKERING LAB

- 👉 Advanced Tools & Machines – 3D printers, power tools, soldering stations, multimeters, and precision equipment for real-world prototyping
- 👉 Hands-on Fabrication Ecosystem – Wood, metal, piping work with vices, clamps, electronics components, and consumables for building functional models
- 👉 Innovation & Design Thinking – Structured kits and challenges to identify problems, prototype solutions, and build future-ready skills 🚀



# 7.STEM LAB INSTALLATIONS

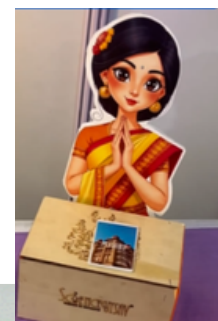


# 7.STEM LAB INSTALLATIONS

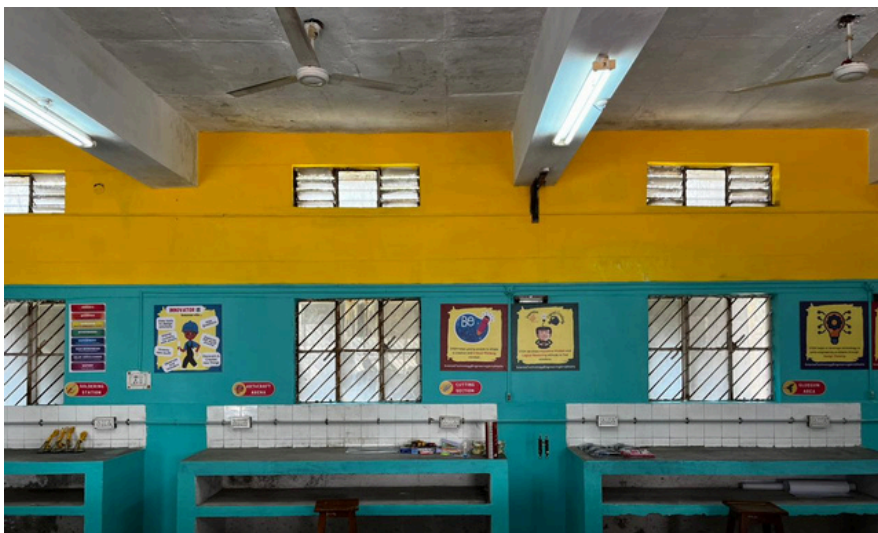
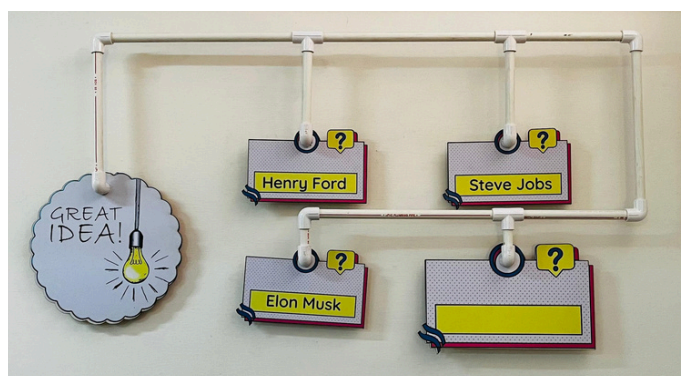
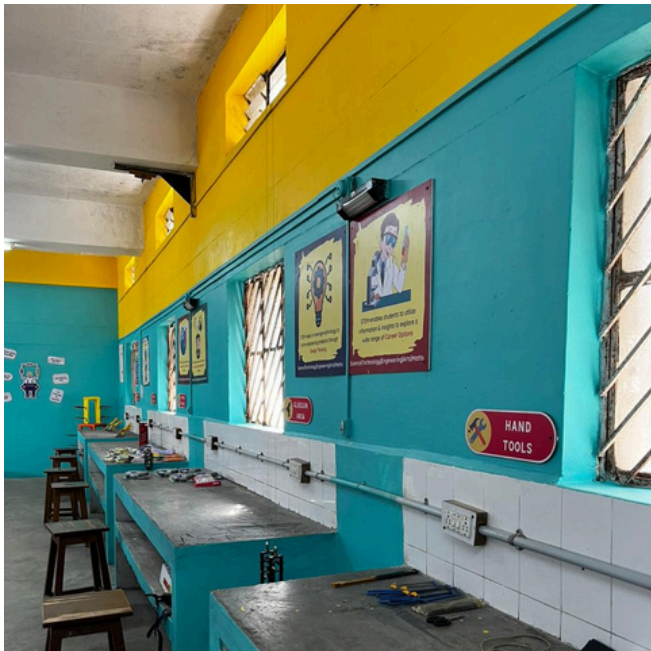
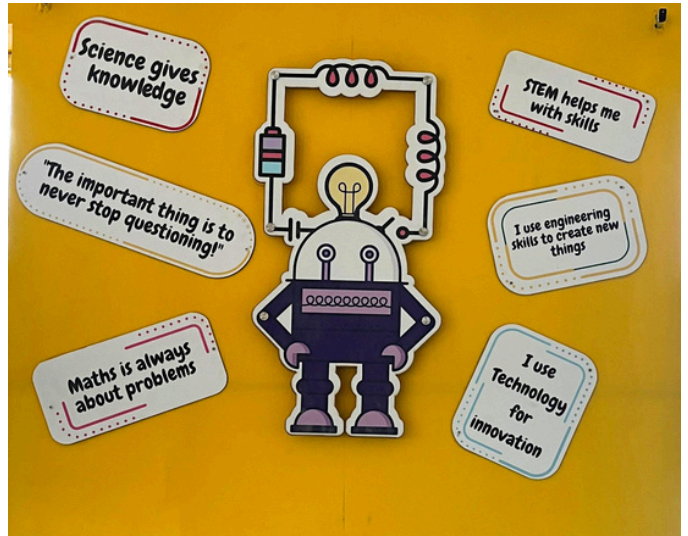
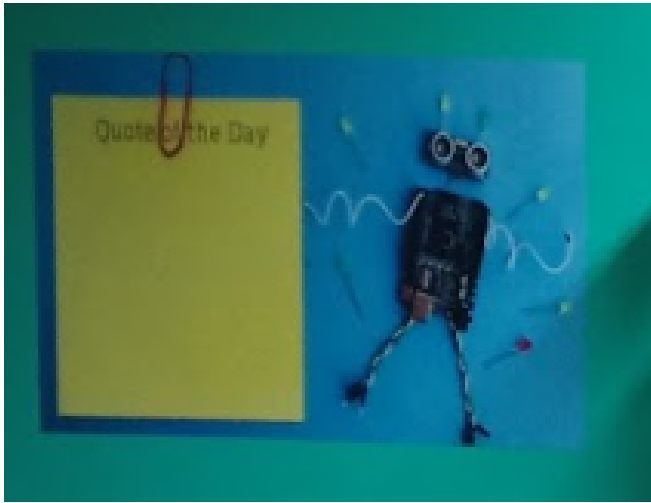
👉 **Inspiring Lab Space** – Attractive walls and visuals that make students excited to learn

👉 **Well-Organized Setup** – Clean layout with proper storage and easy-to-use work areas

👉 **Fun & Engaging Environment** – A space where students enjoy building, exploring, and creating 🚀



# 7.STEM LAB INSTALLATIONS



## 8. LAB INFRA

- **Vibrant Flooring & Wall Painting** – Inspiring colors and themes to spark creativity.
- **Thematic Lab Stickers & Posters** – Visual guides, STEM concepts, and motivational quotes.
- **Flexible Seating Arrangements** – Collaborative tables, ergonomic chairs, and maker-friendly layouts.
- **Racks & Organized Storage** – **Dedicated shelves** for tools, kits, and student projects.
- **Fully Equipped Digital Lab** – **Computers, smart board,** and high-speed internet for research and coding.
- **Maker Workbenches & Tool Stations** – **For electronics, robotics, and mechanical assembly.**
- **Safety & Utility Setup** – Fire extinguisher, first-aid kit, and proper lighting/ventilation.



**SEATING TABLES**



**SEATING TABLES**

## DIGITAL INFRASTRUCTURE



**SMART BOARD**



**COMPUTERS**



**UPS**

# 9.AI AND CODE LAB



- Turns coding and AI concepts into **real-world applications**.
- Progressive learning from block coding to advanced languages (**Python, Java, C++**).
- Projects using **Scratch, Code.org, PictoBlox, and App Inventor**.
- Builds logic, creativity, and **future-ready problem-solving skills**.



# 10. DIGITAL MEDIA LAB

- 👉 **Complete Media Setup** — TV, camera, mic, speakers, lighting, and tripods for recording and presentations
- 👉 **Create & Express Ideas** — Students can make videos, podcasts, and digital content with ease
- 👉 **Build Future Skills** — Learn communication, storytelling, and media skills for the digital world 🚀



# 11. TRAINING AND DELIVERY

a. Learning Platform will be provided to every school where all the required content, joining links for sessions, study material, assessments, etc.,


### Frequently Asked Questions

Tentative Schedule

NOTE: Tentative schedule is subjected to be changed


[Click Here for schedule](#)

Hover on the images below and you will find the Next and Previous page buttons on top of the image. Click on these buttons to navigate the FAQ Files



**HOW TO OPEN THE PORTAL AND REGISTER FOR C-STEM Workshops**

VJ HOW TO OPEN THE PORTAL AND REGISTER FOR PROGRAM



**How to Access C-STEM Sessions & Related Resources**

How to Access C-STEM Sessions & Related Resources

### School-Registration

Select Region \*

Region

Knowledge Center JNV District \*

Select School Name

Note: "School Name" field below is only for students from associated schools. If you are a student from the parent JNV, you may skip this field.

School Name (For Associated JNVs, Kendriya Vidyalayas, Army Public Schools, and State Govt. schools)

Type the Associated School's Name. Eg. - JNV Jammu-II, KV Khana

Enter Number of Students attending \*

Note : If individual student attending, enter 1

Choose the Topic \*  Choose session you want to watch

Mode of attending session/Quiz \*  Choose your mode

[Submit](#)

b. Content: Content related to the Kit is curated based on the 5E Principle

## SOURCES OF LIGHT – TORCH LIGHT ( EXPLORER 1 )

[Home](#)

### Curriculum

#### Before You Start: Important Guidelines

- [Understanding Explorer Kit](#) [Preview](#) ✓
- [Instructions & Safety: Essential Guidelines](#) [Preview](#) ✓

#### Torch Light - Explorer

- [Objectives](#) [Preview](#) ✓
- [Engage : Light](#) [Preview](#) ✓





Teaching Aids | Table Manuals | Teacher Training



**Maker  
Mindset to  
Innovate**





Teaching Aids | Table Manuals | Teacher Training



Learn to



Think like a



Scientist





GET STEM POWERED WITH

SCIENCECUTSAV®  
Science is awesome

**I am  
Maker**

INDIA's first  
STEM platform  
with Learning  
Management  
System.

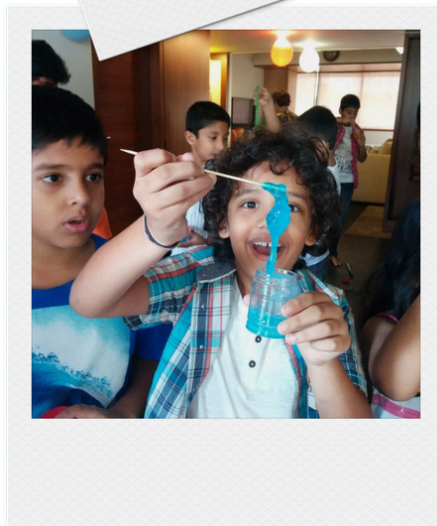
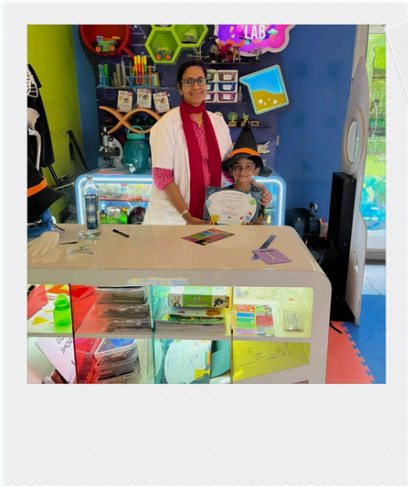
STEM KITS with ONLINE  
Curriculum all delivered  
doorsteps

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