



21st Century STEM 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

ITS MY STEM LAB WHERE I AM ..



MAKER LAB

SO I CAN INNOVATE, EXPLORE & SOLVE REAL WORLD PROBLEMS



DISCOVERY LAB

21ST CENTURY SKILL LAB

Building future-ready minds with the
maker mindset.



DESIGN LAB

Hub for Project Building
Skills



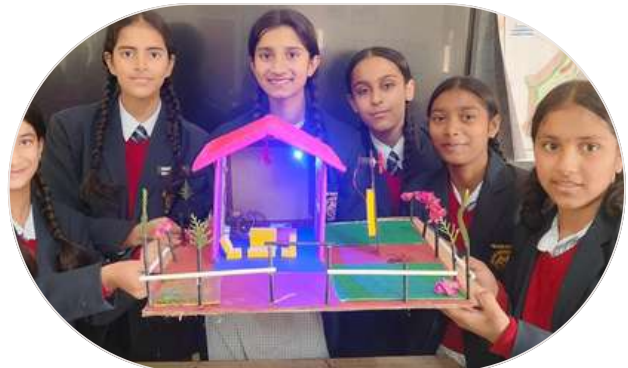
ELECTRONICS LAB

Essential electronics
skills for beginners



ROBOTIC LAB

Create simple robots
with coding skills



IOT & AUTOMATION LAB

Learn automation with
sensors and controllers



AI & CODE CLUB

Programming skills tailored to
every age

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



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**



133	55	21	8	23	68	39	57	5
D	I	Sc	O	V	Er	Y	La	B
Dillithium	Iodine	Scandium	Oxygen	Vanadium	Erbium	Ytterbium	Lanthanum	Boron

DISCOVERY LAB



**Teaching-Aids
to Make
Learning
Fun**

**Art and Skill
Lab for
Hands-On
Experience**



**Grade-wise
Activities
for better
conceptual
understanding**

21ST CENTURY SKILL LAB



SKILL AND DESIGN LAB



LETS GO FROM
THINKING TO TINKERING

- Turns **mechanical, electronic, and fabrication skills** into real-world creations.
- **Progressive kits** from basic tools to advanced prototyping (Grades 6–12).
- **Problem discovery and design thinking** to create innovation for future careers.



Project
Building tools

Materials to
innovate



Instruments

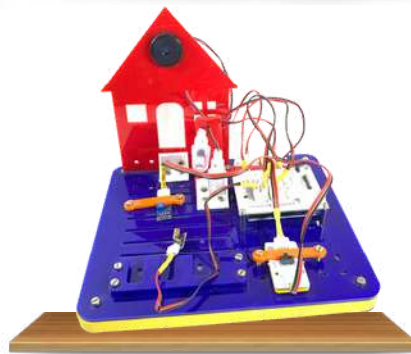
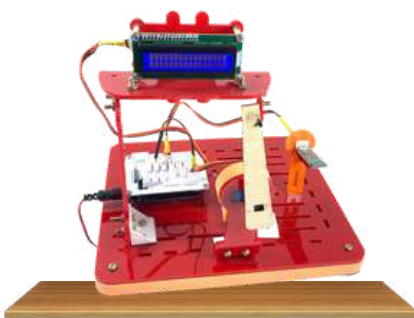
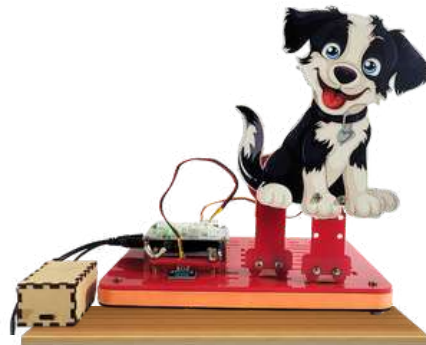
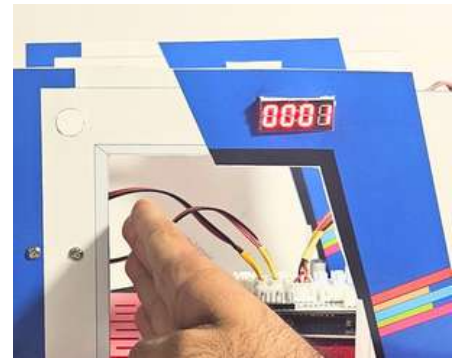
Creative
Skills

Mechanical
Tools

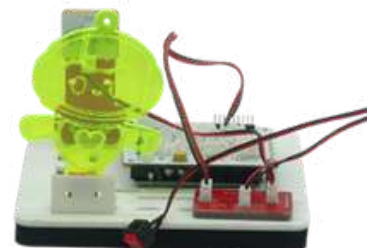
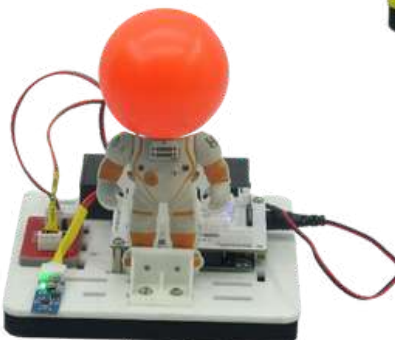


IOT AND AUTOMATION LAB

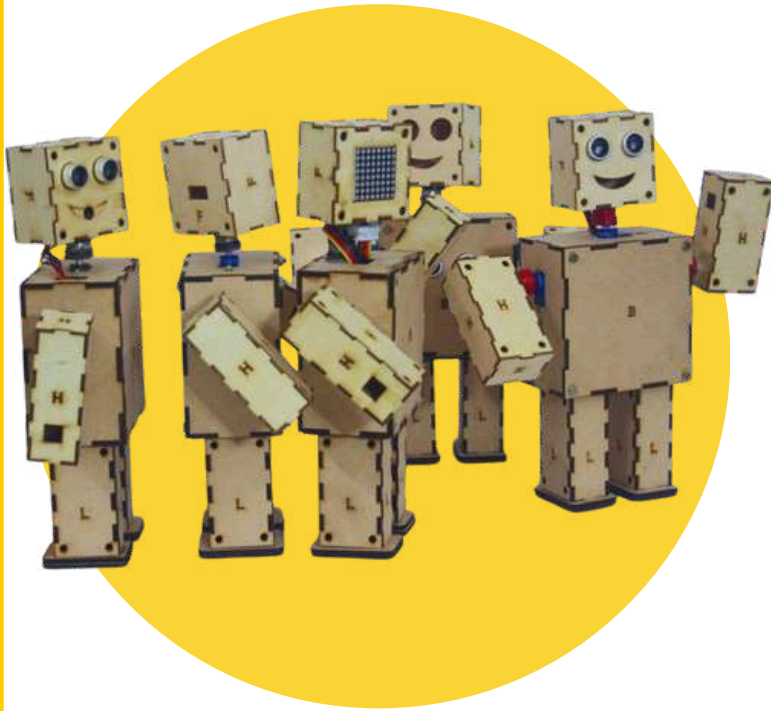
- Turns coding, electronics, and automation into **real-world applications**.
- Progressive kits from basics to advanced automation (**Grades 6–12**).
- Projects with **sensors, actuators, microcontrollers, and coding**.
- Fosters innovation, problem-solving, and a **21st-century maker mindset**.



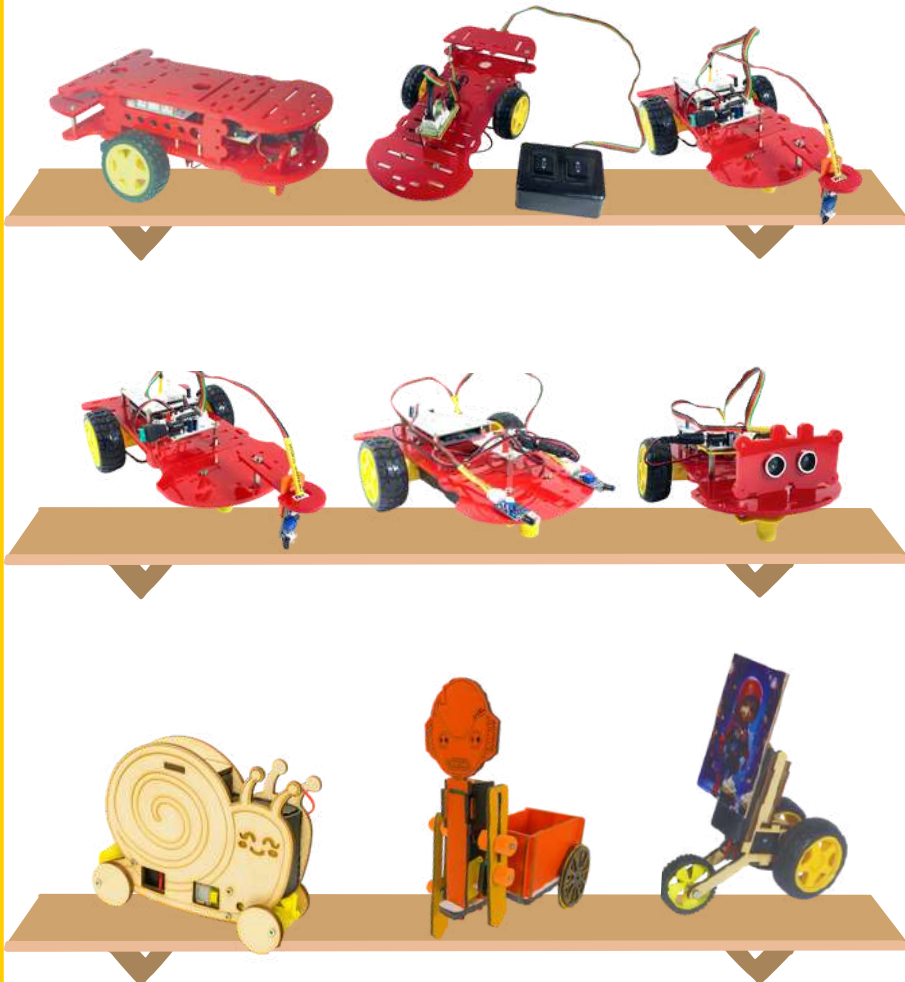
IOT AND AUTOMATION LAB



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**



AI AND CODE LAB

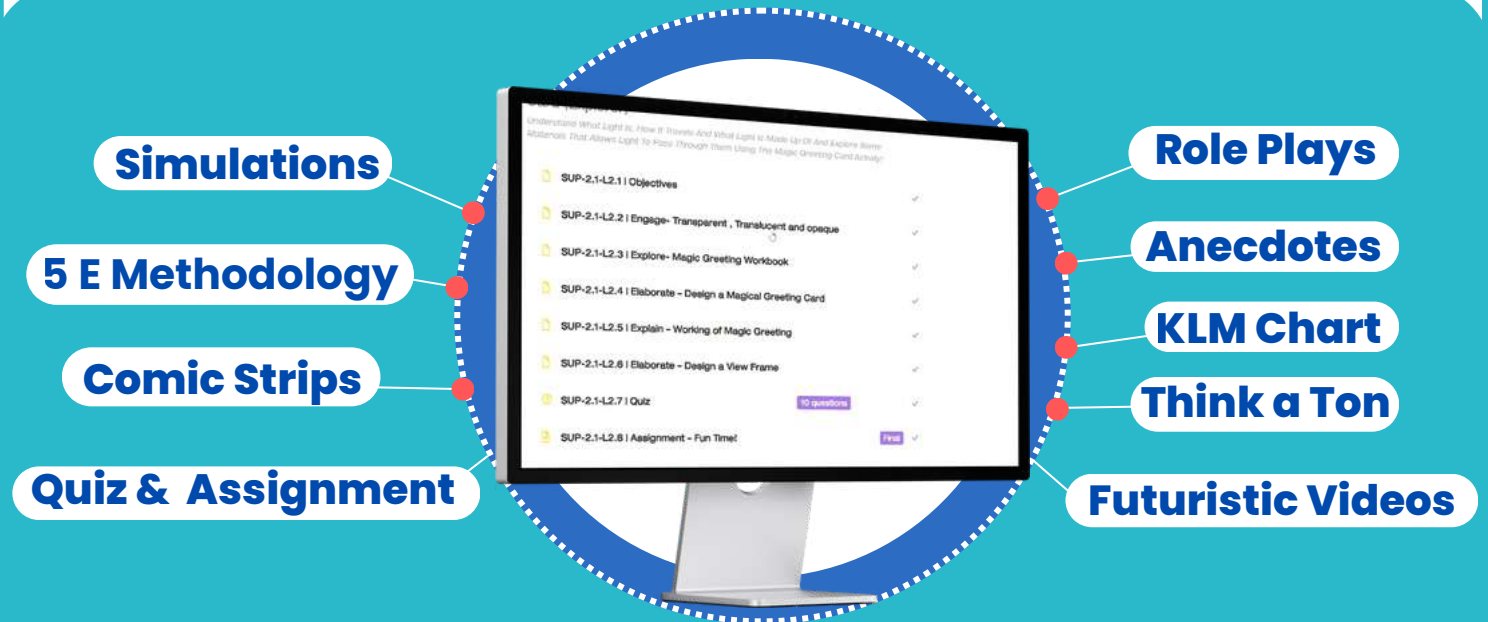


- Turns coding and AI concepts into **real-world applications**.
- Progressive learning from block coding to advanced languages (**Python, Java, C++**).
- Projects using **Scratch, Code.org, PictoBlox, and App Inventor**.
- Builds logic, creativity, and future-ready **problem-solving skills**.



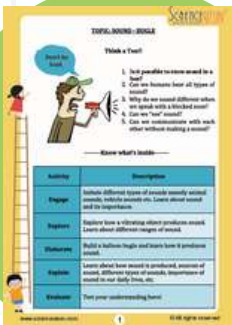
» It's not just a kit... It's a maker lab! «

a complete learning ecosystem



Learning Management System

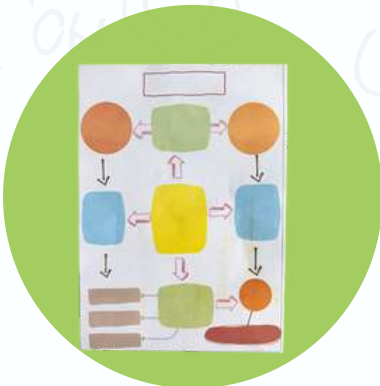
Workbooks



STEM Kit



5 E Pedagogy



Concept Map



Explorer Project



Discoverer Project

Engage > Explore > Explain > Explore > Elaborate

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



Teaching Aids | Table Manuals | Teacher Training



**Maker
Mindset to
Innovate**



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

ScienceCutsav

VJ HOW TO OPEN THE PORTAL AND REGISTER FOR PROGRAM



How to Access C-STEM Sessions & Related Resources

ScienceCutsav

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 Khanu

Enter Number of Students attending *

Note: If individual student attending, enter 1

Choose the Topic *

Choose session you want to watch

Mode of attending sessions/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

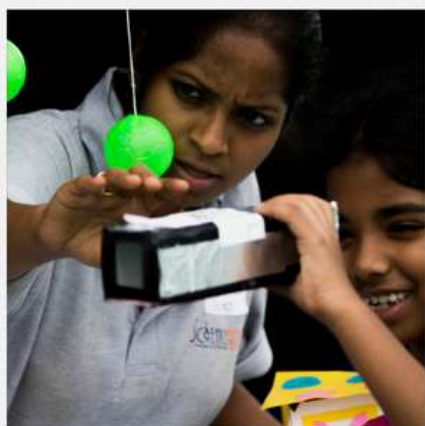


»»» **Learn to**
»»» **Think like a**
»»» **Scientist**





Teacher Training | Explore LMS | Build projects



**Future
Makers
in Action**



“

*Let's transform your classrooms
into innovation hubs*

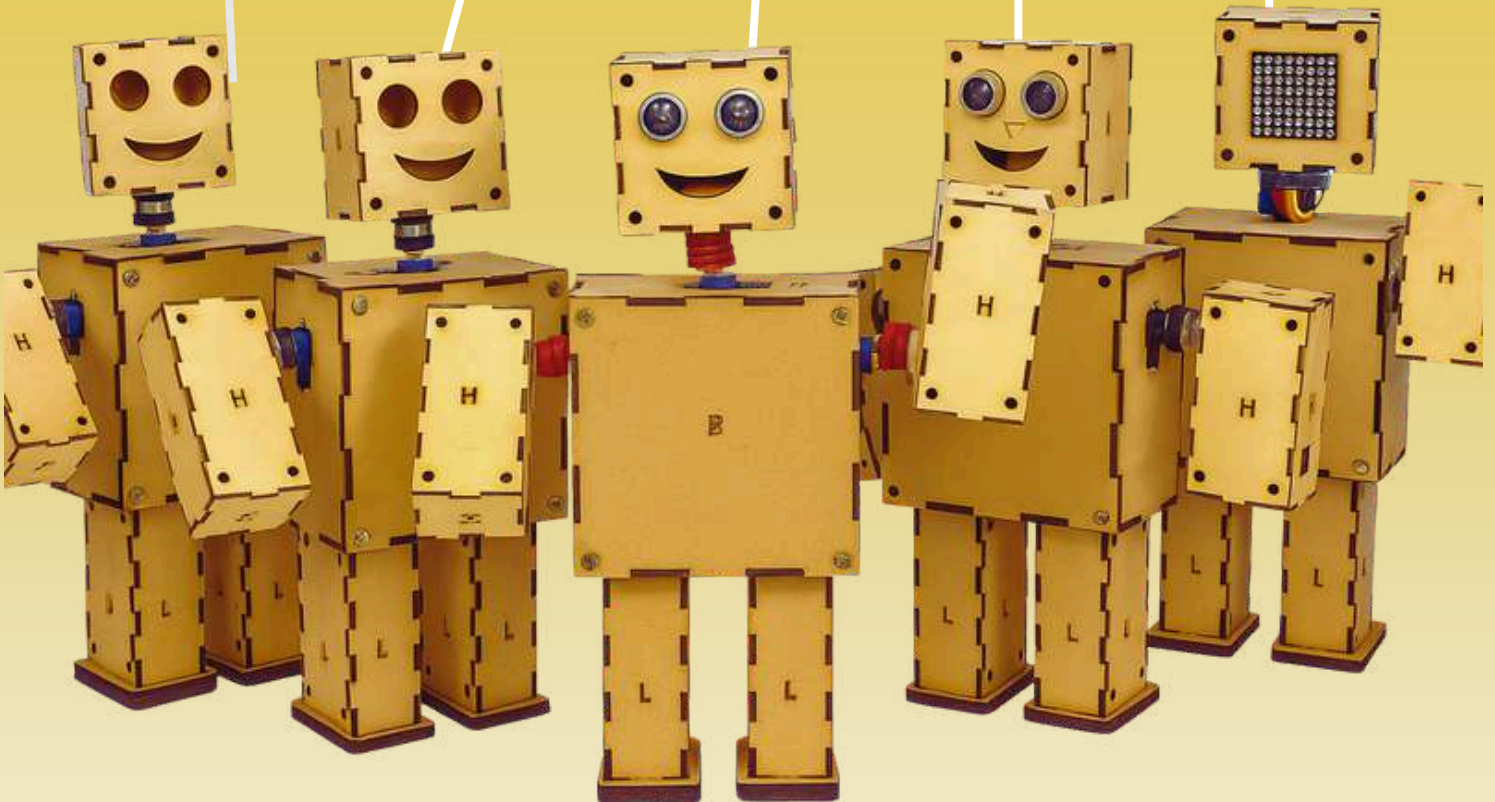
Join

us

for the

Maker

Revolution



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