

TINKERING LAB & MAKERSPACE

A PLACE TO INNOVATE... THROUGH AI, ROBOTICS, IOT & AUTOMATION



ARTIFICIAL INTELLIGENCE | ROBOTICS | IOT | AUTOMATION
BASIC ELECTRONICS | CODING | DESIGN THINKING | DRONES

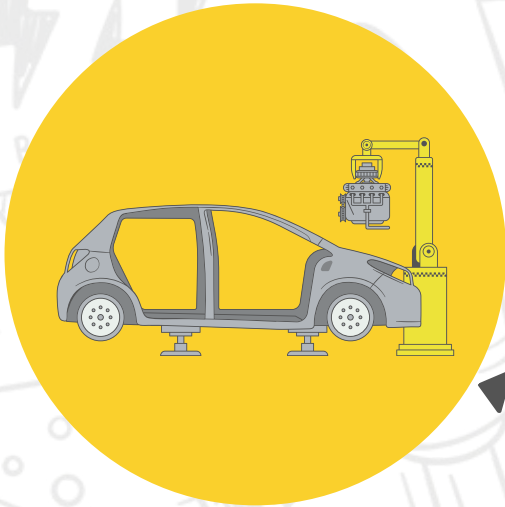


SKILL CLUB



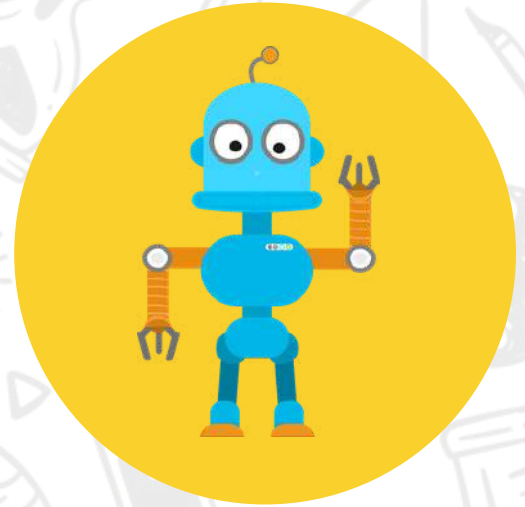
ATL Labs | PM SHRI Schools | NEP Workshops | STEM Programs
Workshops | Composite Skill Labs

COMPLETE SOLUTION FOR TINKERING LAB & MAKERSPACE



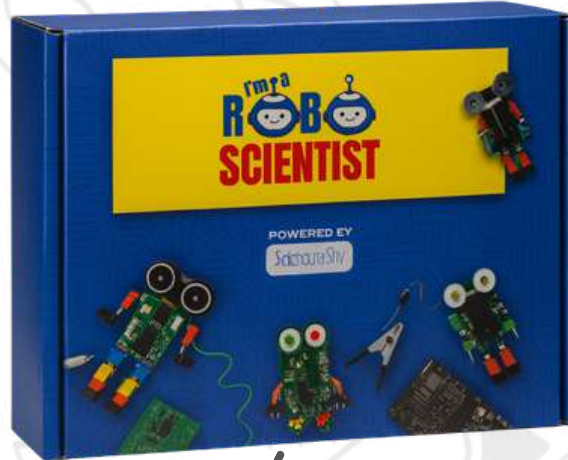
Automation

Microcontroller & Sensors



Robotics

Mechatronics & Motors



Decision Making

Programming

Critical Thinking

Design Thinking



Internet of Things

Computational Thinking

AI & Coding

Data Analysis and Interpretation



MAKERSPACE

Complete infrastructure setup with tools, workstations, electronics and crafting equipment to create a hands-on STEM and robotics learning environment for schools.



Learn, Tinker & Build with Purpose

MAKERSPACE AND TINKERING LAB



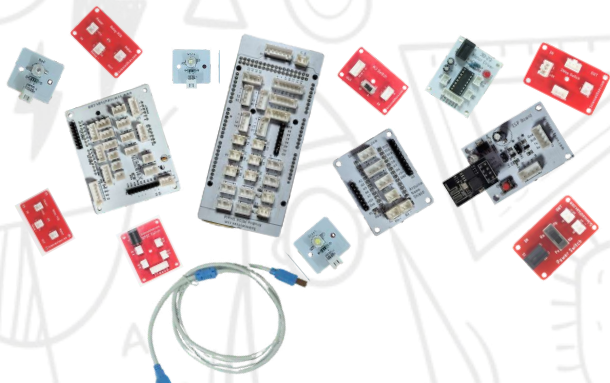
- Technology Kits + Design Thinking Program = Community Solution
- Grade-wise syllabus mapped from Grade 4 to Grade 12
- Learning Management System (LMS) access with comprehensive teacher training
- Dedicated troubleshooting and support provided through a ticket based system



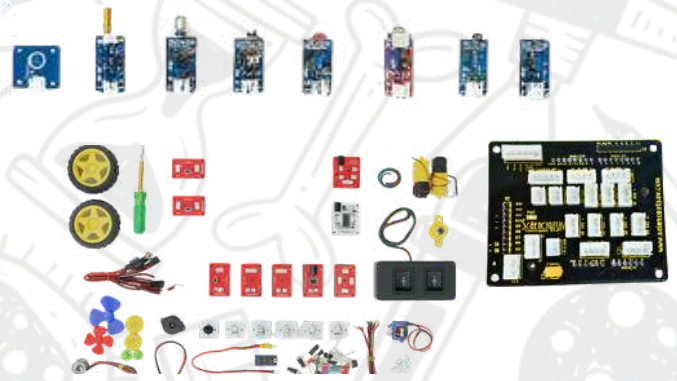
Manufactured in our factory powered by curriculum & Training

WHAT KIT HAS IN IT?

Microcontroller and Shield



Sensor-Based IoT Kit

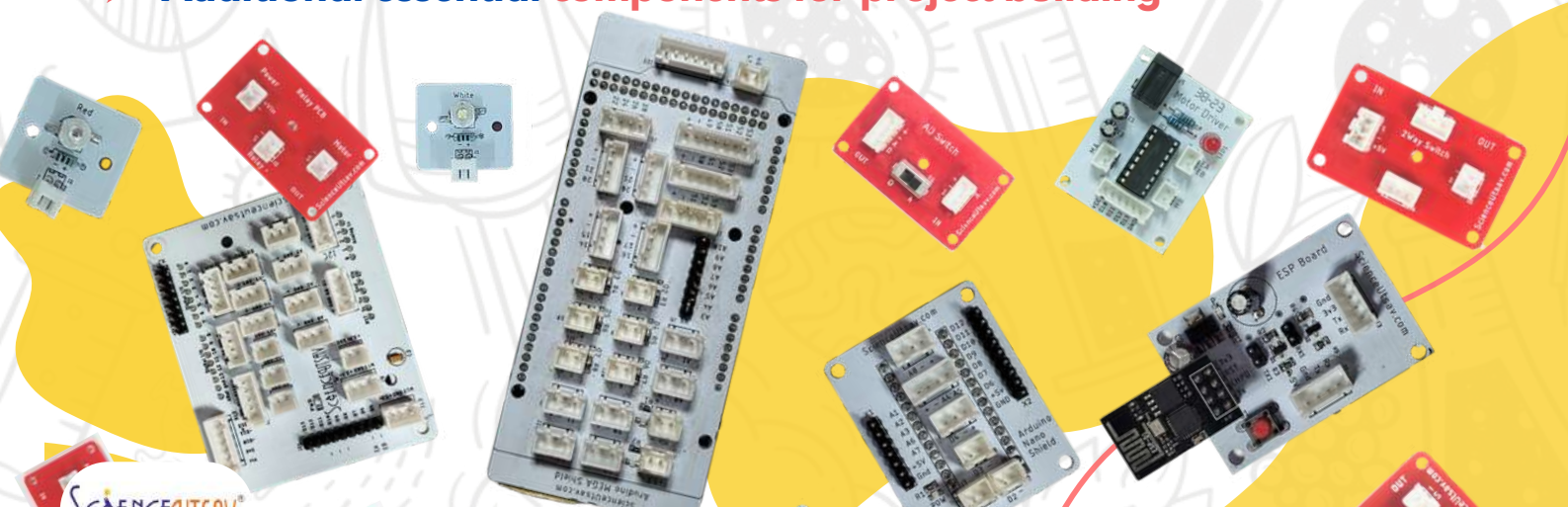


Structure and Templates for prototyping



- SOPs for Lab Usage
- 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**



PRODUCT OUTCOME



**Best Kit for
Tinkering Lab
Activities**

THOD- PHOD -JHOD CULTURE -TECH

Customised to your requirement

Create ten themed projects using microcontrollers, Sensors, , basic input/output devices, accessories, and cultural-themed project templates.



CURRICULUM

BASED STEM PROGRAMS FOR SCHOOLS

A kit designed for **Grades 4 to 9**, where students explore sensors, output devices, automation, design thinking, and the basics of IoT through hands-on learning and creative projects.

Level 1

Creative Automation

Level 2

Sensational Sensors

Level 3

IoT and Security Systems

Level 4

Advanced Automation System

Year 1

Year 2

Year 3

3 years Program

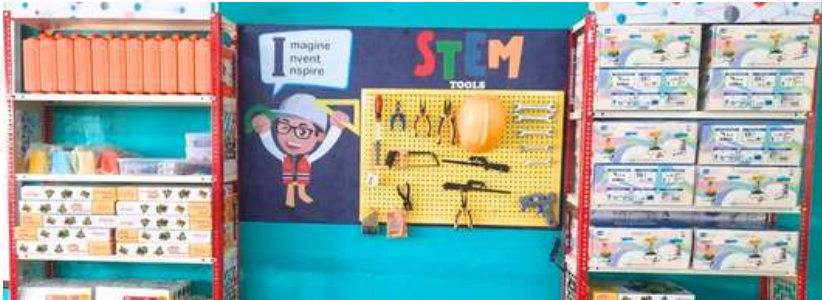
TEACHER TRAINING

LMS SUPPORT



ROBOTICS & TINKERING LAB

STREAM STUDIO | MAKERSPACE



Partner with us to create innovative,
hands-on Maker Spaces!

LEVEL 1 & 2

INTRODUCTION TO MICROCONTROLLERS

INPUT/OUTPUT DEVICES

80+ UNIQUE PROJECT IDEAS

Hands-on Learning • Creative Thinking • Real-World Skills

LAMP PROJECT



Learn about circuits & light.



FAN PROJECT



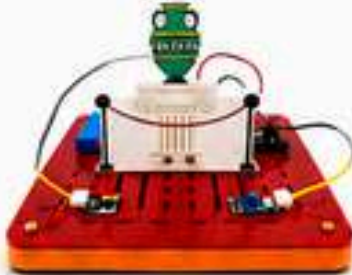
Understand motors & motion.



ALARM SYSTEM



Learn about sound & alerts.



TRAFFIC LIGHT CONTROLLER



Explore signals & automation.



SECRET BOX



Discover switches & security.



HERO PROJECT



Bring your hero to life.



MONSTER BOT



Build fun bots & creatures.



SNAIL HOUSE



Creative projects, limitless fun!



LEVEL 3

INTERMEDIATE INPUT/OUTPUT AND WIRELESS AUTOMATION

SMARTER PROJECTS. REAL WORLD IMPACT.



ADVANCED
CONCEPTS



AUTOMATION
SKILLS



REAL WORLD
APPLICATIONS



INNOVATE
THE FUTURE



TEMPERATURE
MONITOR

Monitor temperature
in real time with
smart alerts.



AUTOMATIC
COLOR SORTER

Sort objects by
color using sensors
and automation.



SMART CITY
MODEL

Learn smart city
infrastructure and
automation.



AUTOMATIC
FLOWER LIGHT

Flower glows
automatically
in the dark.



SMART KITCHEN
AUTOMATION

Automate kitchen
appliances for a
smart home.



ELEPHANT
AUTOMATION

Automated
elephant with
moving trunk.



LED ROOM
AMBIENCE

Control LED lights
and colors for
your room.



PLANT
WATERING
SYSTEM

Automatic watering
system for plants
using sensors.



HANDS-ON
LEARNING



ENGINEERING
EXCELLENCE



BUILD
INNOVATE



PROBLEM SOLVING
SKILLS

LEVEL 4

ADVANCED ELECTRONICS AND AUTOMATION



ADVANCED
ELECTRONICS



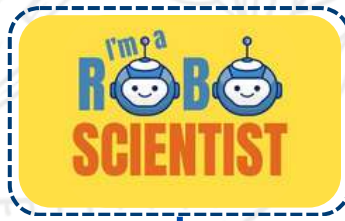
AUTOMATION
TECHNOLOGY



REAL WORLD
APPLICATIONS



INNOVATE
THE FUTURE

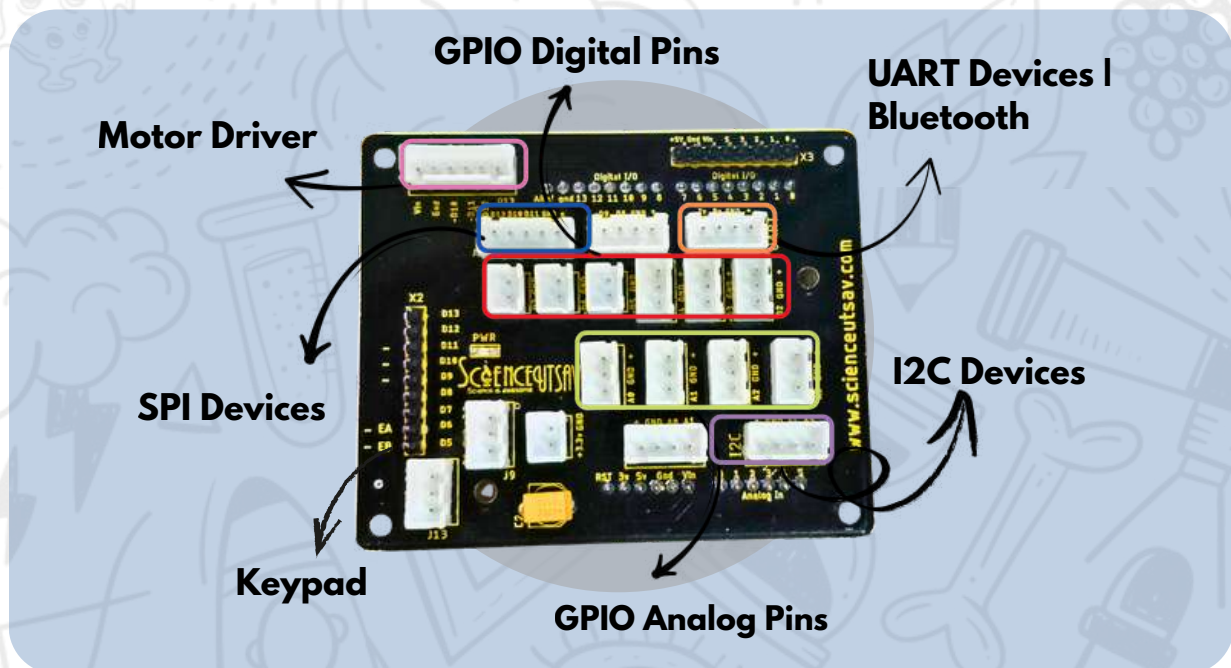


Electronic + Coding - Complicated Writing + $\frac{\text{Tools x Ideas}}{\text{Engineering Problems}}$
= Community Solutions

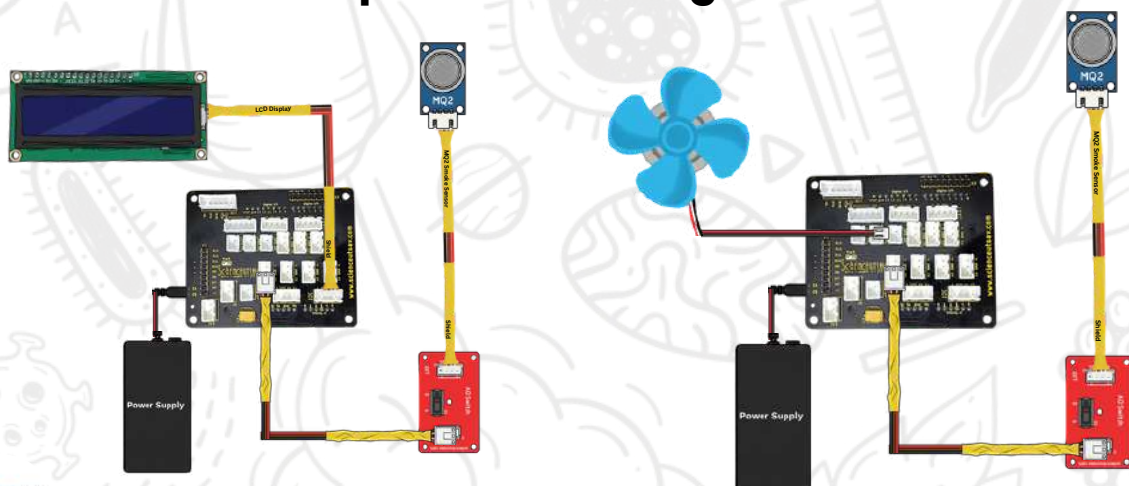
**Structure and
Templates for
realtime project
building**

**Perfect kit for
prototyping the
ideas**

**Customised LMS
for coding and
electronics**

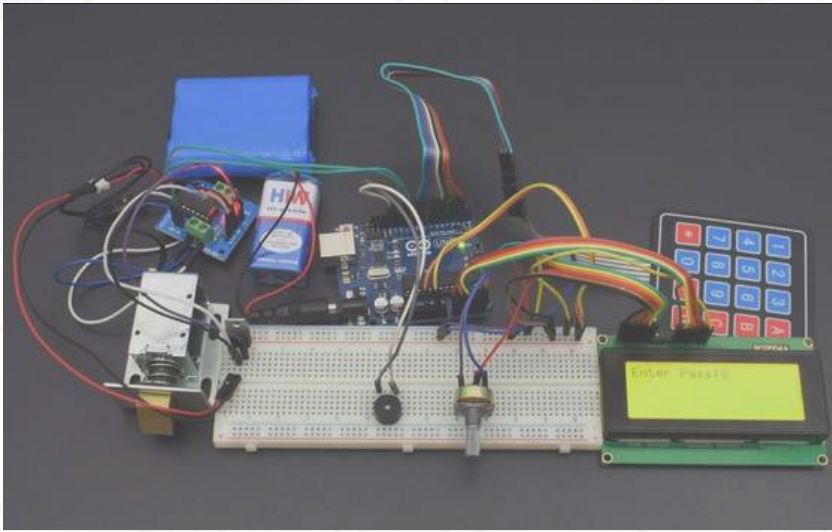


Sample Circuit Diagrams

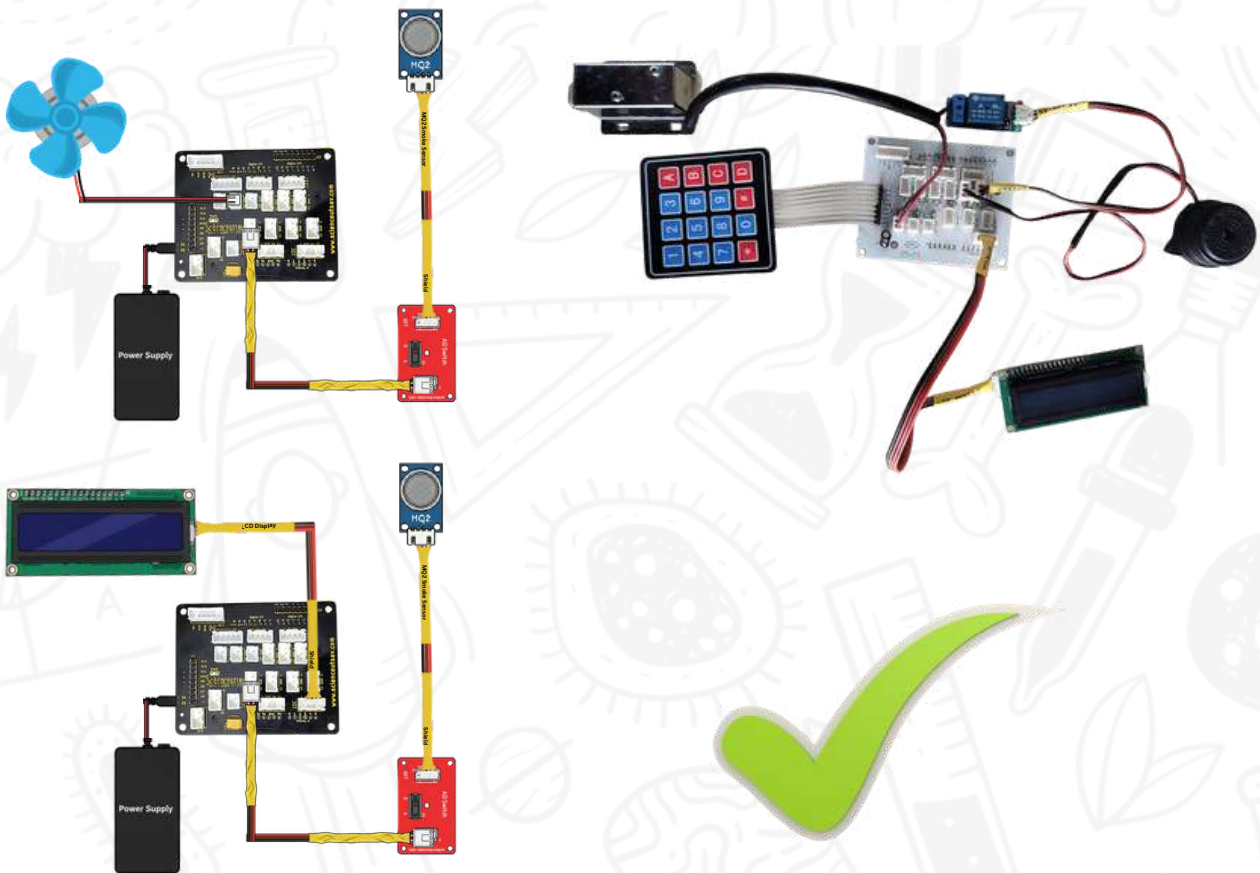


"HASSLE-FREE INNOVATION"

➤ **Usual way** of connecting components to build a project



➤ **Effortless way** to connect parts and build with the **I'm a RoboScientist Kit**



Connection made easy using RMC based plug and play components

PROGRAM EXECUTION – WORKFLOW

1. User friendly Tech lab setup

Simplified Tech kits for IoT, Automation and Robotics

2. Coding (Both Syntax & Block based)

5E methodology to introduce programming

3. Project Building using Templates & Structure

Structures and templates for project prototyping

4. Tinkering Lab for Skill development

Design Lab and project building tools for project building

5. Design Thinking Workshops

Approach to learn problem discovery

6. Learning Management System & Training

Customised Curriculum delivered grade-wise through LMS

7. Creative Ideation

Community problem solving with kiddo engineering skills

8. Hackathon and Showcase

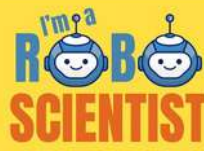
Project Showcase, Exhibition and Certification

ROBOTICS PROGRAMS ADD-ON



BLOCK ROBOTICS PROGRAMS





ROBOTICS AND AUTOMATION KIT FOR INDIVIDUALS

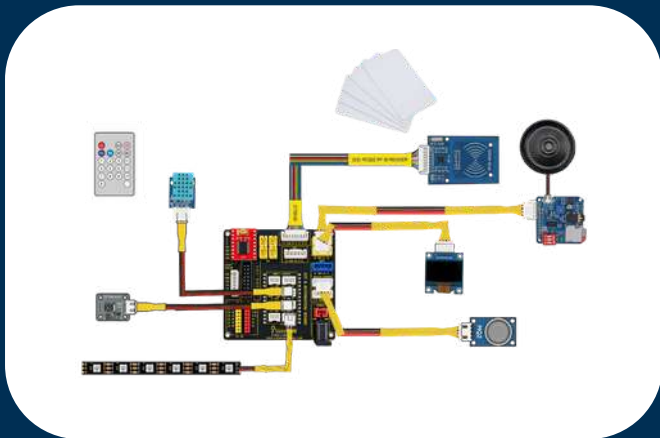
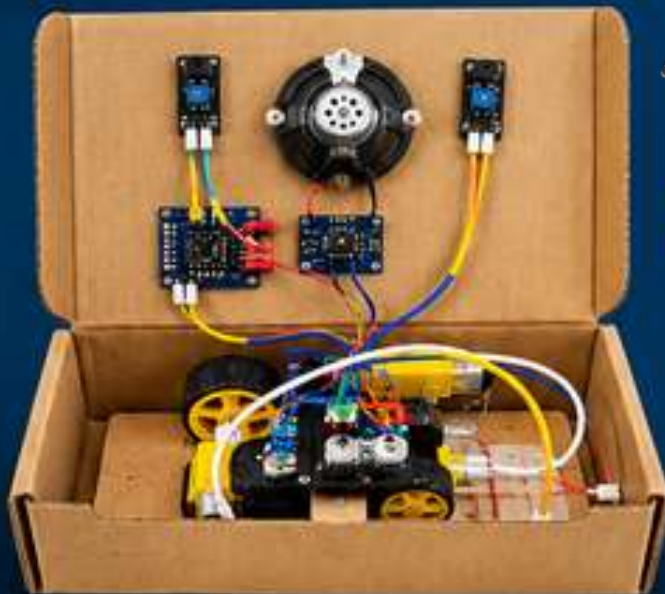


BEGINNER - INTERMEDIATE - ADVANCED



Recommended For Activity Centers and Schools

AI & AUTOMATION PROGRAMS



**PRACTICAL
AI PROJECTS**



**HANDS-ON
LEARNING**



**SMART
SOLUTIONS**

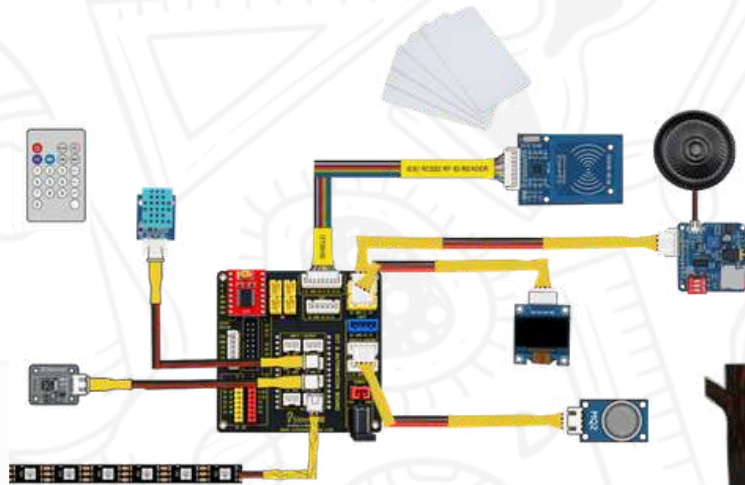


**FUTURE
READY SKILLS**



**EXPERT
SUPPORT**

AI ROBOTICS PROGRAMS



ESP32 AI SPECIALIZATION KIT



RASPBERRY PI AI SPECIALIZATION KIT



AI OBJECT
DETECTOR



AI TRAFFIC
MANAGEMENT



AI VOICE
ASSISTANT



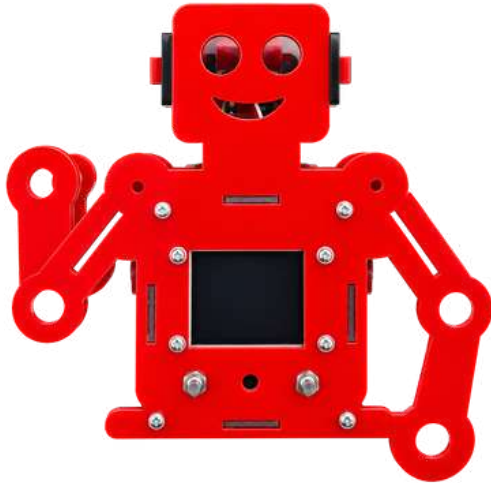
SMART PLANT
WATERING SYSTEM



AI BASED
SECURITY SYSTEM

THINK-TINKER-TRANSFORM

**From ideas to innovations
Students tackle real problems**



AI Camera



Chat bot



Weather reporting bot



Maths Bot



Gyro-Controlled Soccer Robot



Mars Rover Robot

**Market ready prototypes to solve realtime
community problems !!**

COMPOSITE SKILL LAB



AGRICULTURE & GARDENING

Agriculture and Gardening

Hands-on learning in sustainable farming, plant care and environmental responsibility.

Curriculum Focus: Hydroponics • Soil Science • Irrigation • Plant Growth

- ✓ Soil Testing, Measurement Kits & Plant Anatomy Tools
- ✓ Vertical Hydroponics & Smart Irrigation
- ✓ Seed Germination, Composting & Nursery Trays

HUMAN RESOURCES

Human Resources

Build communication, collaboration, leadership and practical workplace skills through real-world activities.

Curriculum Focus: Public Speaking • Team Management • Digital Literacy • Project Planning

- ✓ Digital Thinking & Simulation Boards
- ✓ Event Simulation & Planning Tools
- ✓ Financial Literacy, Negotiation & Team Leadership



MACHINES & MATERIALS

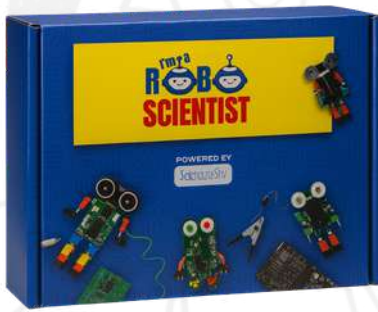
Machines and Materials

Explore engineering and materials science through hands-on construction, testing and design challenges.

Curriculum Focus: Mechanical Design • Electronics • Sensors • 3D Prototyping

- ✓ DIY Solar, Life-Skills Station and Safety Gear
- ✓ Hand Tools, Circuits & Assembly Activities
- ✓ Electronics, Breadboards & Sensor Packs

PROGRAM EXECUTION & WORKFLOW



**Hassle Free
Lab tools and Kits**



Tech Know-How



**Problem Discovery
workshop**



Hands-On Skills



**Design thinking
Methods**



Creative Ideation

**Community problem solving with
innovations**

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

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VJ HOW TO OPEN THE PORTAL AND REGISTER FOR PROGRAM



How to Access C-STEM Sessions & Related Resources

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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 *

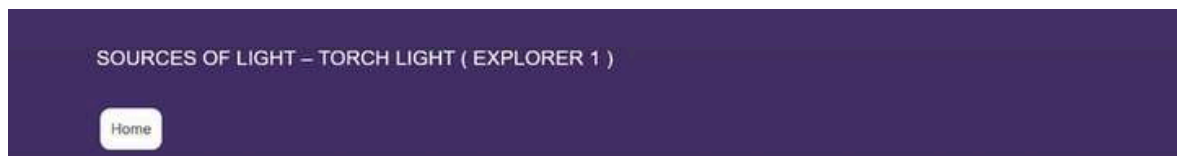
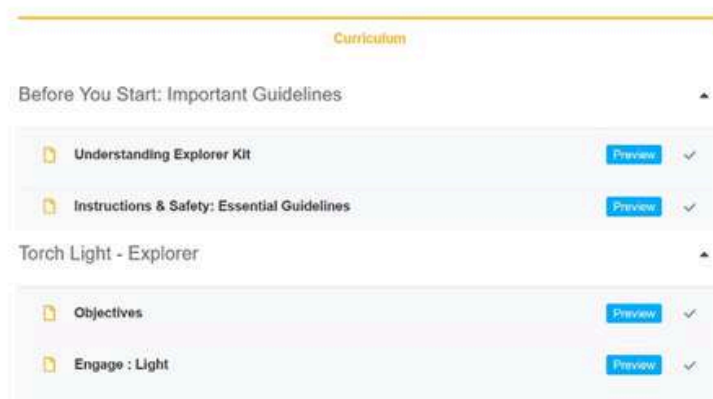
Choose session you want to watch

Mode of attending sessions/Quiz *

Choose your mode

[Submit](#)

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



OTHER ADD-ON PROGRAMS

MORE ROBOTS

Ask for the separate Catalogue



Trek Robo



Slippy



Triky

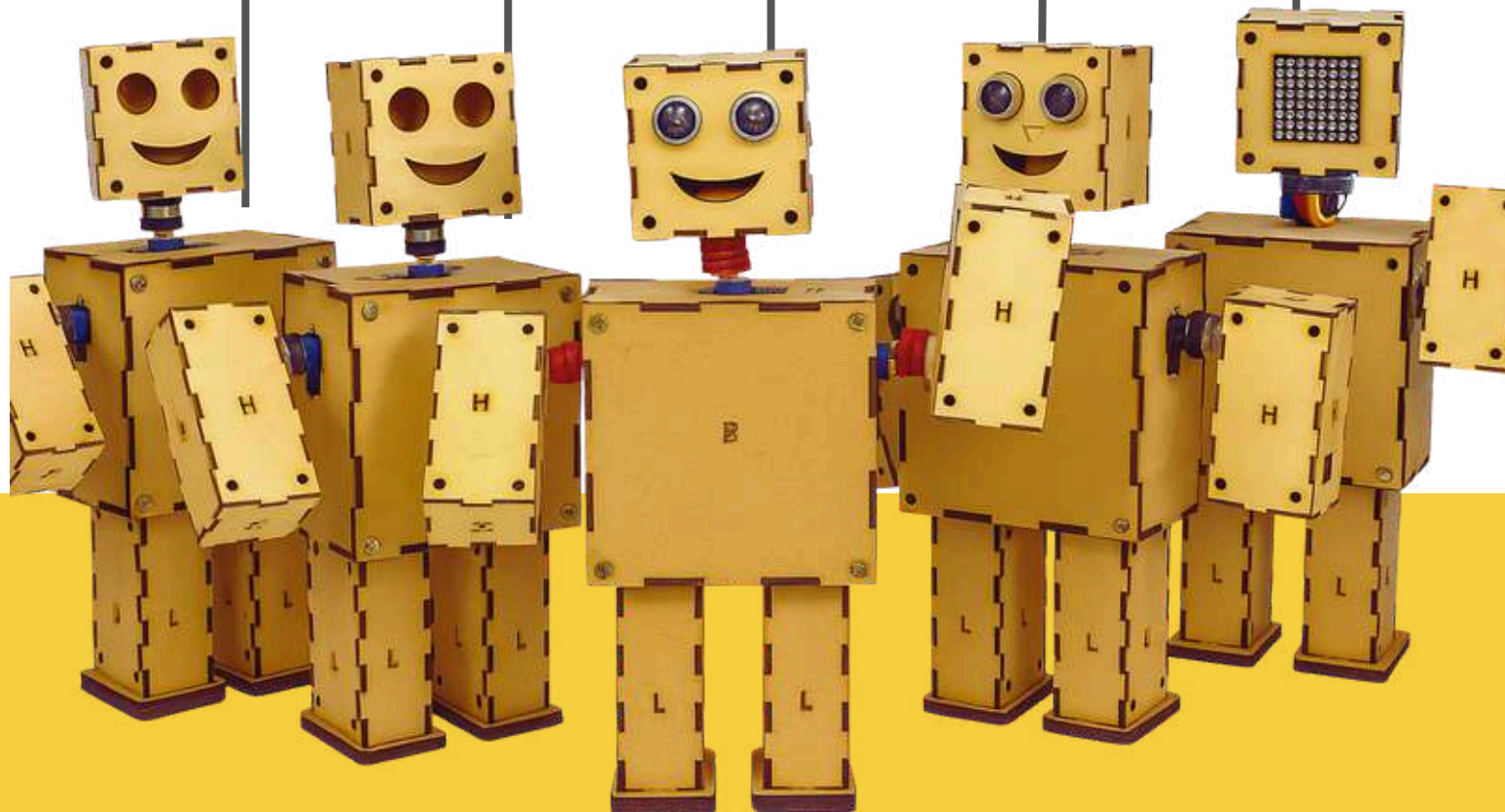
**Dancing
Robot**

**Don't come
near me**

Shy Robot

Mist Robo

Smiley

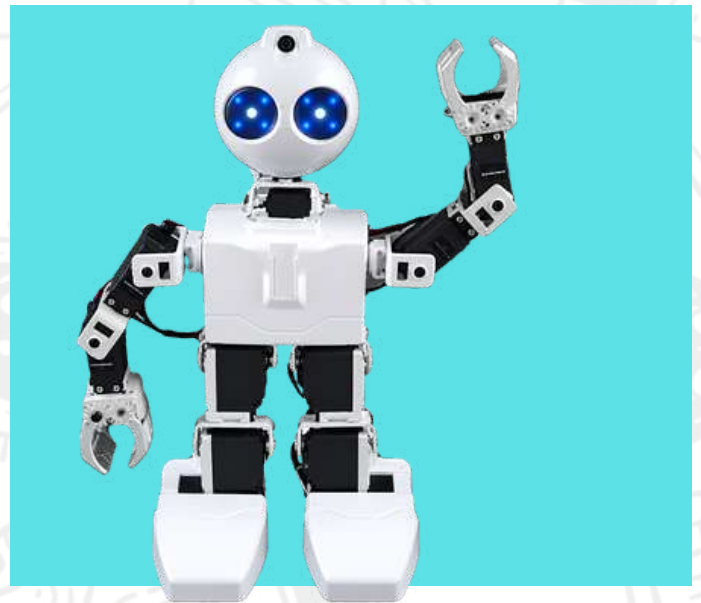


Robotic Arm



Explore robotic arms and learn how mechanical movements, and control systems work through activities.

Humanoid Robots



Explore humanoid robots and discover how they mimic human movements through interactive robotics activities.

Zing Robot



Build and program the Zing Robot to explore robotics, movement, and hands-on STEM concepts.

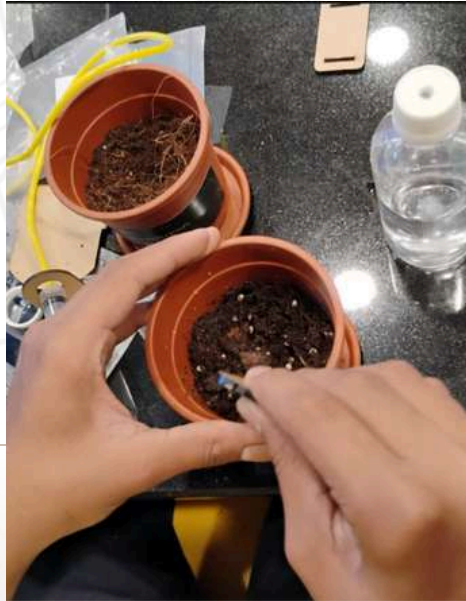
DIY Drone Kit



Assemble your own drone and learn the basics of flight, aerodynamics, and drone technology.



CURRICULUM BASED KIT FOR INDIVIDUALS



GRADEWISE STEM KITS



**ASK FOR SEPARATE
GRADEWISE CATALOGUE**

**STEM kits and programs
available for centers, schools & retail purchase**

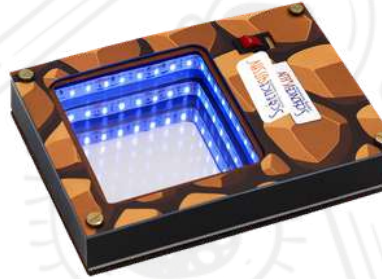
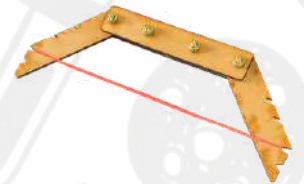
MAKER PROGRAM IS ALL ABOUT



BE A MAKER KITS

DESIGN THINKING KITS

One day Workshop | Festivals | Yearlong programs



USP OF ROBOSCIENTIST

Inhouse
manufacturing

15 years of legacy in creative
pedagogy both in STEM and
Robotics

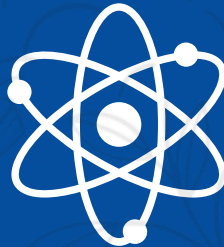
Inhouse design team to cater
customized kits for your
curriculum

Up to **50%** off for the schools
for the wholesale supply

Gradewide curriculum
with **200+** STEM kits

Supply to **350+**
schools every year

THANK YOU



**WE DON'T JUST TEACH SCIENCE.
WE LET KIDS TOUCH IT, BUILD IT,
AND OWN IT.**



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