



STEM Kits | Robotics Kits | AI & Automation Kits
Tinkering Activity Materials | Lab Set up
Yearlong Programs | Science Festivals



ScienceUtsav empowers students to turn ideas into real-world solutions through hands-on learning, prototyping, and design thinking, nurturing the innovators and problem-solvers of tomorrow.



#startupindia



www.scienceutsav.com | +91 8105162640

STEM & ROBOTICS PRODUCT INDEX

Explore | Build | Create | Grow



01 STEM KITS

MS-000



- Gradwise STEM Kits (Explorer) MS-001
- Gradwise STEM Kits (Inventor) MS-002
- Design Thinking Kits MS-003
- Paper Circuits MS-004
- Thod Phod Jhod - STEM MS-005

02 ROBOTICS KITS

RS-000



CODE FREE ROBOTS

- Avenger Style Robot Car RS-001
- RF Remote Controlled Bot RS-002
- Snail Inspired Bot RS-003
- Hopping Motion Robot RS-004
- Hexa Wheel Car RS-005
- Walking Motion Robot RS-006
- DPDT Controlled Car RS-007
- Mechatronics Kits RS-008
- Block based Electronics RS-009
- Robotics for Pre-school RS-010

ROBOTICS KITS

- Cliff Avoiding Robot RS-011
- Obstacle Surveillance Robot RS-012
- Bluetooth Controlled Robot Kit RS-013
- Line-Following Robot Kit RS-014
- IR sensor MutliBot RS-015
- Wireless controlled -MultiRobot Kit RS-016
- Gyro-Controlled Soccer Robot RS-017
- Mars Rover Robot RS-018
- Dancing Robot RS-019
- Shy Robot RS-020
- Robotic Arm RS-021
- Humanoid Robots RS-022
- Zing Humanoid Robot RS-023
- DIY Drone Kit RS-024
- 10 in 1 MultiRobot Kit RS-025
- Block Robotics RS-026

03

AI & AUTOMATION KITS

AI-000



- AI Camera kit AI-001
- Tap n learn AI-002
- Weather and environment monitor AI-003
- Smart AI Teacher device kit AI-004
- Customizle ESP32 AI Kit using AI-005
- Rasberry Pi AI Kit AI-006

04

IOT | AUTOMATION & ROBOTICS PROGRAMS

TA-000



- Thod- Phod- Jhod - Tech TA-001
- Curriculum Based STEM Kits for Schools TA-002
- School Kit for Grade 4 to 8 Level 1 TA-003
- School Kit for Grade 6 to 9 Level 2 TA-004
- School Kit for Grade 6 to 9 Level 3 TA-005
- School Kit for Grade 8 to 12 Level 4 TA-005

05

HOME LEARNING PROGRAMS

HP-000



- Curriculum based Kit for Individuals HP-001
- Robotics & Automation Home Learning Programs HP-002

06

LAB'S

SL-000



- Maker & STEM Lab SL-001
- Science and Mathematics Lab SL-002
- Tinkering Lab & MakerSpace SL-003
- Equipment, Tools and Peg Board SL-004
- STEM Lab Installations SL-005
- Robotics and Tinkering Lab SL-006
- Composite Skill Lab SL-007
- AI and Code Lab SL-008
- Digital Media Lab SL-009

05

WORKSHOP & FESTIVALS

PW-000



- Science Festival PW-0001
- Teacher Training PW-0002
- Science shows and Workshops PW-0003



MS-000

STEM KITS!

for grade 1st to 10th



GRADWISE STEM KITS

MS-001 - EXPLORER | MS-002 - INVENTOR



**ASK FOR SEPRATE
GRADEWISE CATALOGUE**

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

MAKER PROGRAM IS ALL ABOUT



BE A MAKER KITS

IT'S NOT JUST A KIT... IT'S A MAKER LAB!

a complete learning ecosystem

MS-001 - EXPLORER | MS-002 - INVENTOR

Simulations

5 E Methodology

Comic Strips

Quiz & Assignment

Role Plays

Anecdotes

KWL Chart

Think a Ton

Future-tech Videos

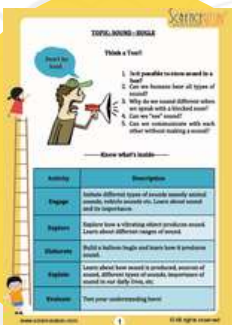
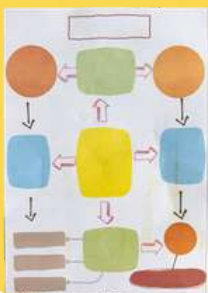
Research based experiments

Learning Management System

Workbooks

STEM Kit

5 E Pedagogy



Concept Map

Explorer Project

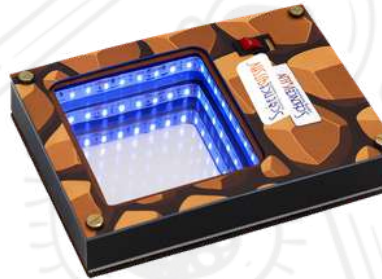
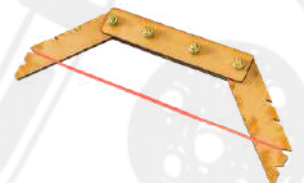
Discoverer Project

Engage > Explore > Explain > Elaborate > Evaluate

DESIGN THINKING KITS

Empathize → Define → Ideate → Prototype → Test

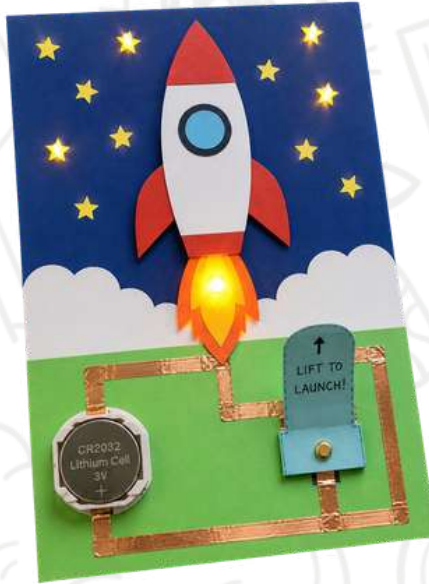
MS-003



PAPER CIRCUITS

MS-004

Explore electronics by creating fun paper circuits and DIY projects while learning about electric circuits, LEDs, switches, and basic components.



**HANDS-ON
LEARNING**

Learn by building
real circuits.



**BUILD
SKILLS**

Enhances creativity
and imagination.



**STEM
EDUCATION**

Understand concepts
through real projects.



**INNOVATE
THE FUTURE**

Inspire young minds
to think beyond.

THOD-POD-JOD

MS-005

Explore, dismantle, and rebuild everyday objects with ScienceUtsav's Thod Phod Jhod Reusable STEM Kits, encouraging hands-on tinkering, creativity, and problem-solving while discovering how things work.





RS-000

ROBOTICS

Explore robotics by building and operating robots while learning about mechanics, electronics, automation, and problem-solving.



CODE FREE ROBOTS

RS-007

Explore robotics without coding through fun, hands-on activities that build creativity and logical thinking.



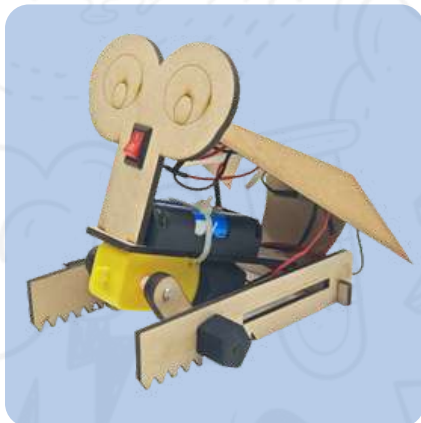
**Avenger Style
Robot Car**
RS-001



**RF Remote
Controlled Robot**
RS-002



**Snail Inspired
Robot**
RS-003



**Hopping Motion
Robot**
RS-004



**Hexa Wheel Robot
Car**
RS-005



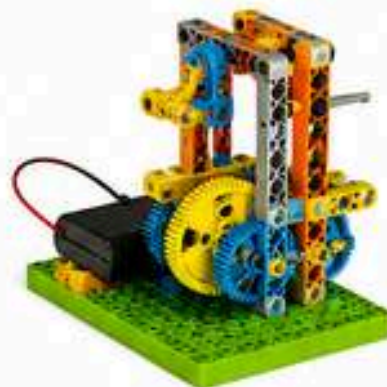
**Walking Motion
Robot**
RS-006



DPDT Car

MECHATRONIX KITS

RS-008



**HANDS-ON
LEARNING**

Learn by building
real circuits.



**BUILD
SKILLS**

Enhances creativity
and imagination.



**STEM
EDUCATION**

Understand concepts
through real projects.



**INNOVATE
THE FUTURE**

Inspire young minds
to think beyond.

20+ MECHATRONIX PROJECTS

BLOCK BASED ELECTRONICS

RS-009



ROBOTICS FOR PRE-SCHOOL

RS-010



ROBOTICS KIT

BEST SELLER!

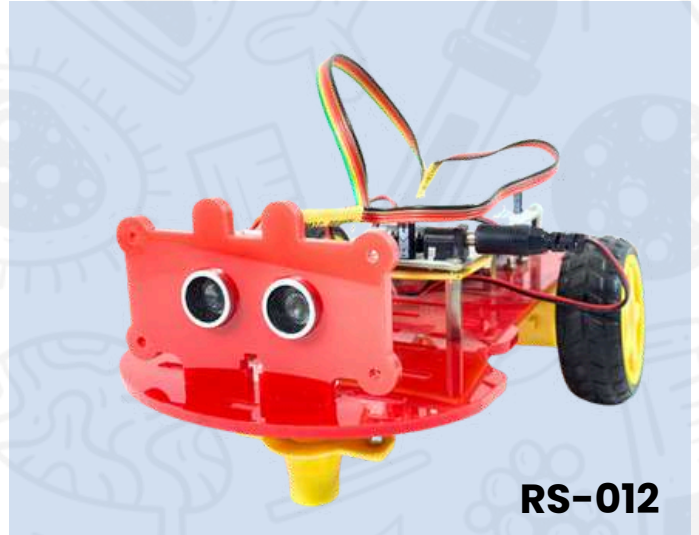
Cliff Avoiding Robot



RS-011

Build a Cliff-Avoiding Robot that detects edges and changes direction automatically to prevent itself from falling, using sensors, a customized PCB, BO motors, and a mechanical chassis.

Obstacle Surveillance Robot



RS-012

Build a robot for obstacle-surveillance activities using an Arduino UNO, motor, IR sensor, and structural components.

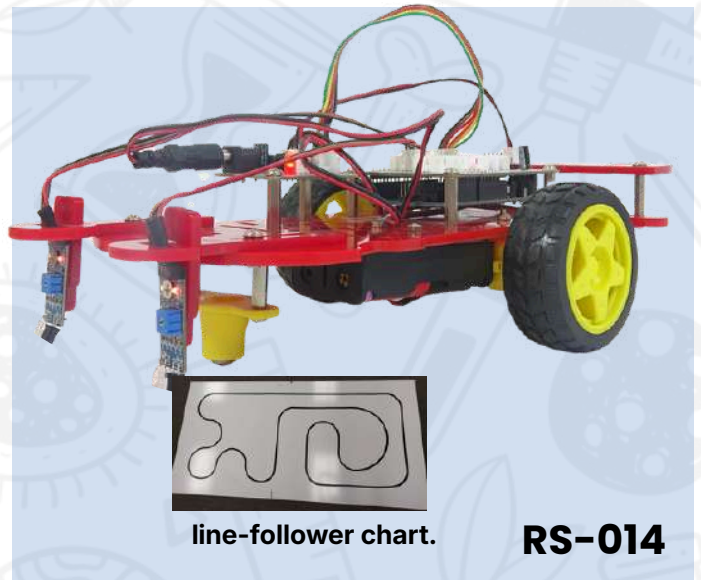
Bluetooth Controlled Robot Kit



RS-013

Build a robot that can be controlled over Bluetooth, with Arduino UNO, a motor, output devices, and structural components.

Line-Following Robot Kit



line-follower chart.

RS-014

Build a robot that detects and follows a track using IR sensing, BO motors, and the included line-follower chart.

ROBOTICS KIT

BEST SELLER!

IR SENSOR BOT

Explore IR sensor-based robots that follow humans, track lines, detect obstacles, and sense fire through hands-on robotics projects.



RS-015

WIRELESS CONTROLLED ROBOT

Control robots wirelessly and explore robotics through fun, hands-on activities that demonstrate remote operation and automation.



RS-016

Gyro-Controlled Soccer Robot

RS-017

Build a soccer robot controlled using an accelerometer-gyroscope sensor and ESP32, with BO motor drive and a structural frame.



Mars Rover Robot

Assemble a rover-style robot using ESP32, BO motors, an IR sensor, and a matrix display for interactive robotics activities.

RS-018

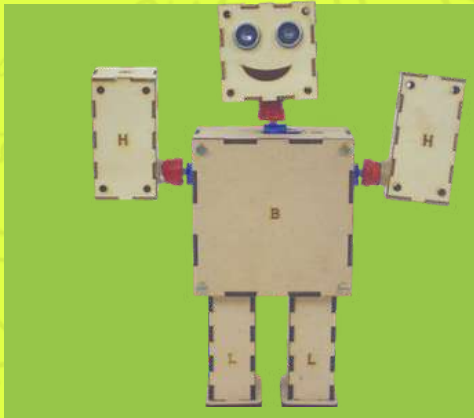


SHAPE YOUR ROBO

Dancing Robot

A lively robot that grooves with fun arm and head movements, making everyone want to dance along!

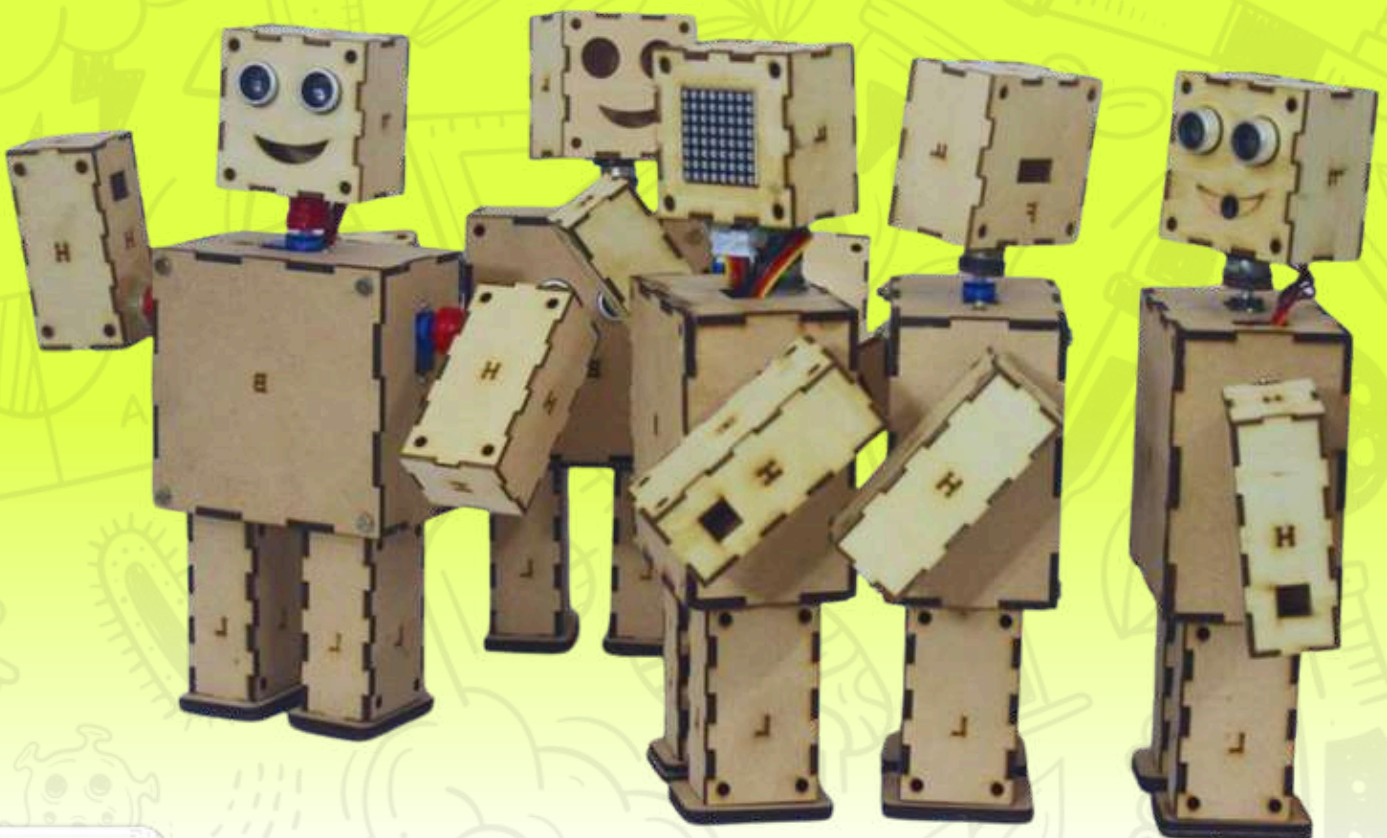
RS-019



Shy Robot

A cute robot that hides its face and turns away when you get too close, just like a shy child!

RS-020



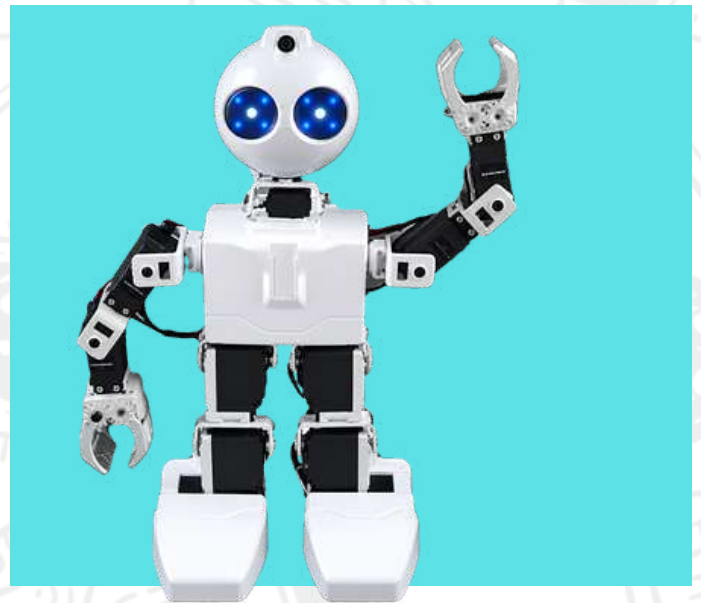
Robotic Arm



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

RS-021

Humanoid Robots



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

RS-022

Zing Robot



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

RS-023

DIY Drone Kit



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

RS-024

10 IN 1 ROBOTS

RS-025



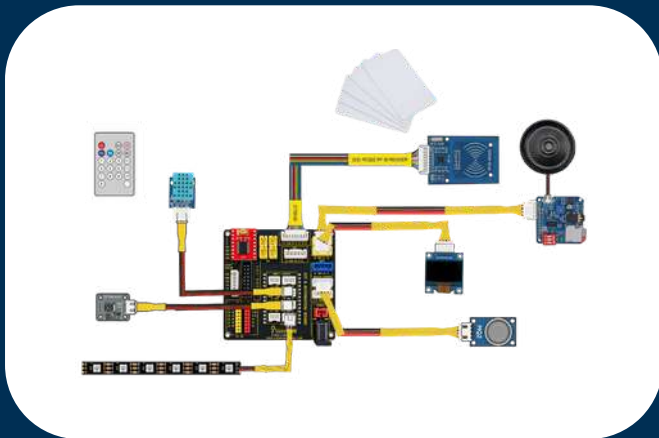
BLOCK ROBOTICS

RS-026



AI & AUTOMATION KITS

AI-000



PRACTICAL
AI PROJECTS



HANDS-ON
LEARNING



SMART
SOLUTIONS



FUTURE
READY SKILLS



EXPERT
SUPPORT

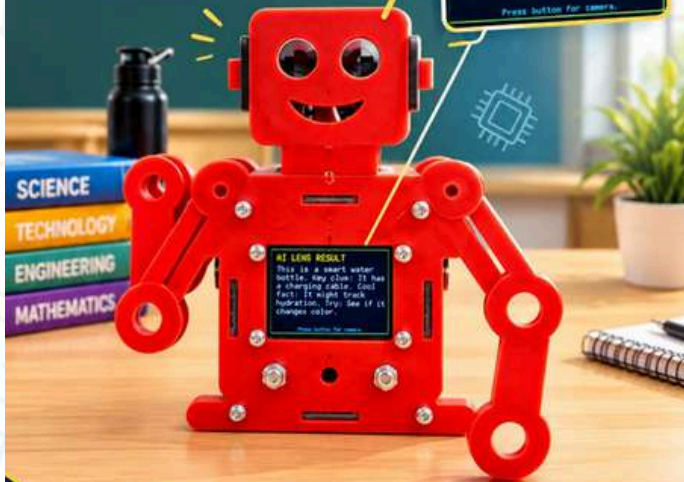
AI STEM KITS

AI Camera Kit

Assemble a rover-style robot using ESP32, BO motors, an IR sensor, and a matrix display for interactive robotics activities.

AI LENS RESULT
This is a smart water bottle. Key clue: It has a charging cable. Cool fact: It might track hydration. Try: See if it changes color.

Press button for camera.



AI-001

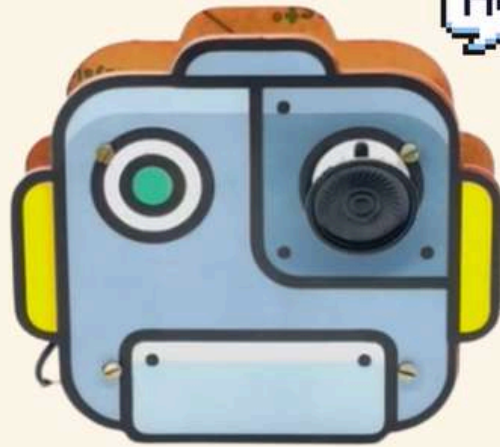
SCIENCEUTSAV

Tap N Learn

Explore RFID-based interaction using an ESP32, RFID reader, and RFID cards, with the included shield and structural components.

AI-002

Hello!

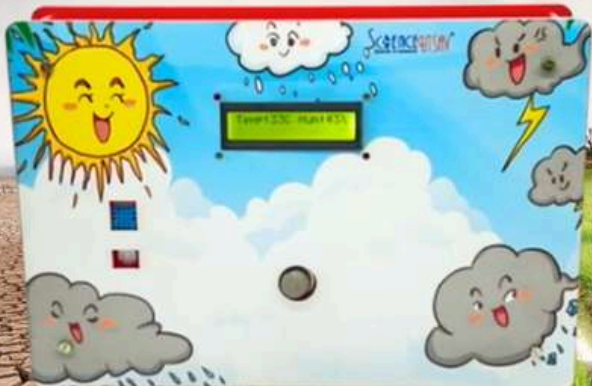


SCIENCEUTSAV

Weather & Environment Monitor

Build an ESP32-based monitoring project using a DHT11 sensor, gas sensor, touch input, and LCD display.

AI-003



SCIENCEUTSAV

SCIENCEUTSAV

Smart AI Teacher Device Kit

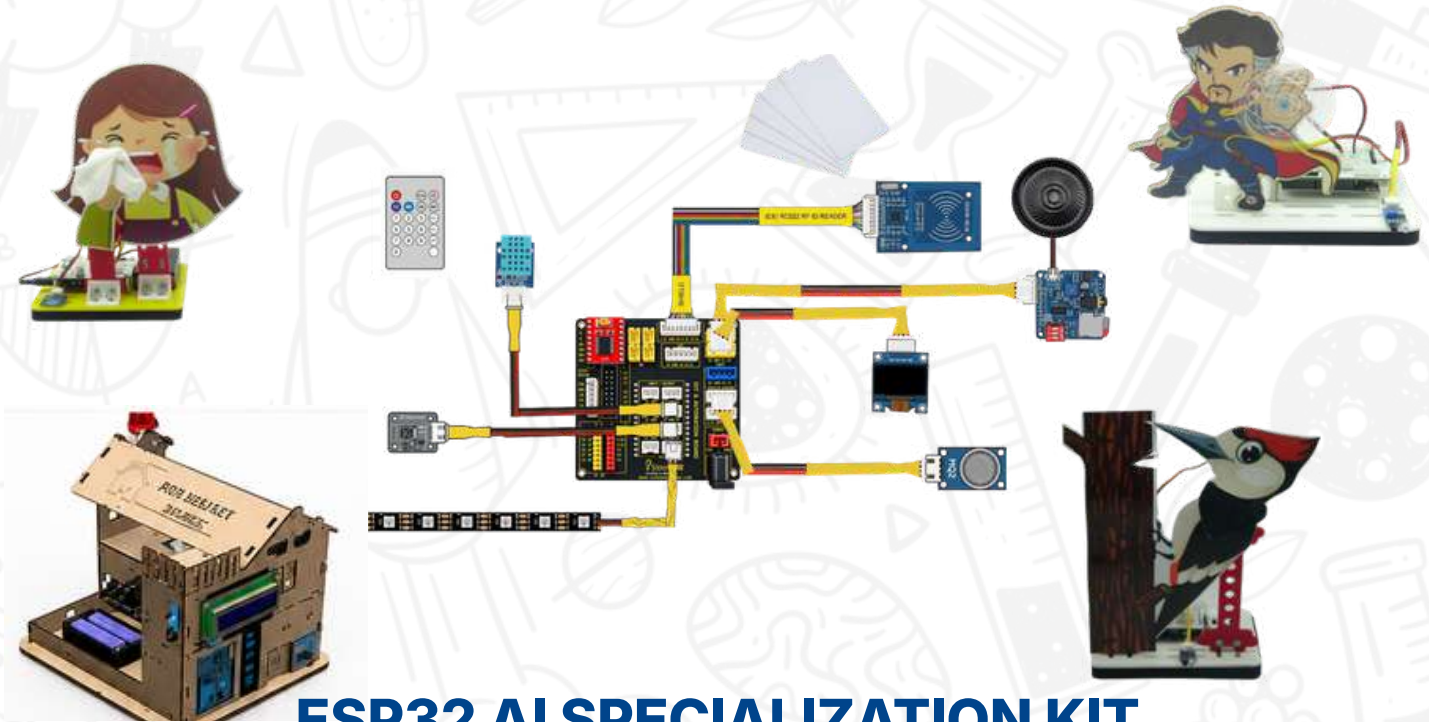
A camera-based interactive device kit with ESP32-CAM, push buttons, rechargeable power components, and TFT display adapters.

AI-004



SCIENCEUTSAV

AI STEM KITS



ESP32 AI SPECIALIZATION KIT AI-005



RASBERRY AI SPECIALIZATION KIT AI-006



AI OBJECT
DETECTOR



AI TRAFFIC
MANAGEMENT



AI VOICE
ASSISTANT



SMART PLANT
WATERING SYSTEM



AI BASED
SECURITY SYSTEM

IOT AND AUTOMATION TINKERING ACTIVITIES KITS

TA-000



Explore IoT and automation by connecting smart devices and creating automated solutions through hands-on projects.



(Electronic + Coding - Complicated Writing + Tools) x Ideas
Engineering Problems
= **Community Solutions**

**Structure and
Templates for
realtime project
building**

**Perfect kit for
prototyping the
ideas**

**Customised LMS
for coding and
electronics**



THOD- PHOD -JHOD

Customised to your requiremnt

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

TA-001



CURRICULUM BASED STEM KITS 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.

TA-002 | TA-003 | TA-004 | TA-005

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



LEVEL 1 & 2

INTRODUCTION TO MICROCONTROLLERS

INPUT/OUTPUT DEVICES

TA-002 | TA-003

80+ UNIQUE PROJECT IDEAS

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

LAMP PROJECT



Learn about circuits & light.



FAN PROJECT



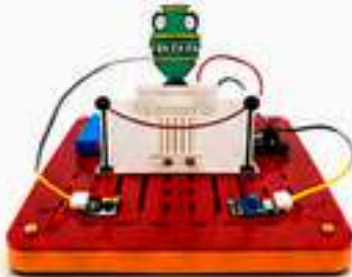
Understand motors & motion.



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 AUTOMATON

TA-004

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

TA-005



ADVANCED
ELECTRONICS



AUTOMATION
TECHNOLOGY



REAL WORLD
APPLICATIONS



INNOVATE
THE FUTURE

HOME LEARNING PROGRAMS

HP-000

LEARN YOUR 21ST CENTURY SKILLS
SKILL DEVELOPMENT

#DESIGN THINKING #



#BASIC ELECTRON

#HANDS-ON LEARNING #

LET'S GO FROM
THINKING TO TINKERING

BEST SUITED FOR ACTIVITY CENTERS TUTORIALS AND HOME SCHOOLING



ROBOTICS AND AUTOMATION KIT FOR INDIVIDUALS

**BEST SUITED FOR ACTIVITY CENTERS TUTORIALS
AND HOME SCHOOLING**

HP-002



BEGINNER - INTERIM - ADVANCE



Recommended For Activity Centers and Schools

LAB SETUPS

SL-000



In-classroom Lab

Composite Science Lab

Maker Lab



**Transform
Classrooms into
Innovation Hubs**



MAKER & STEM LAB

SL-001

- ⚙ 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

ELECTROMAGNETISM

FORCE AND ENERGY

MATERIAL SCIENCE

ILLUSSIONS

MAGNETISM

BIOLOGY

LIGHT

ELECTRICITY

GRAVITY

ECOLOGY AND ENVIRONMENT

CHEMISTRY

ASTRONOMY

HUMAN BODY



SCIENCE AND MATHEMATICS LAB

SL-002



One Lab for Physics, Chemistry & Biology

A complete integrated laboratory designed to support **multidisciplinary science learning.**

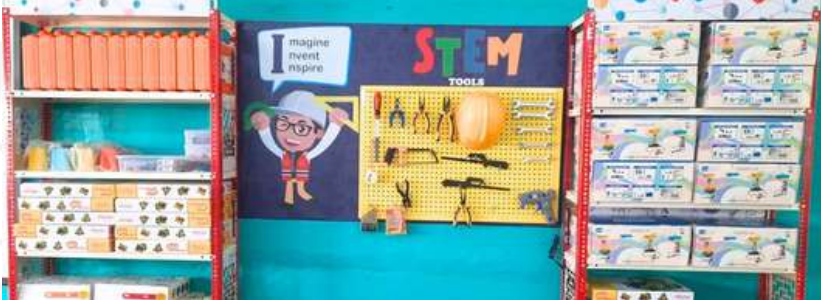
- ✓ Physics, Chemistry & Biology resources
- ✓ Advanced experiment stations
- ✓ Organized storage solutions
- ✓ Supports middle & secondary school curriculum
- ✓ Hands-on practical learning



ROBOTICS & TINKERING

STREAM STUDIO | MAKERSPACE

SL-003



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

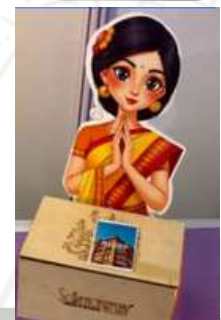
TINKERING LAB EQUIPMENT & TOOLS

SL-004

👉 **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 🚀

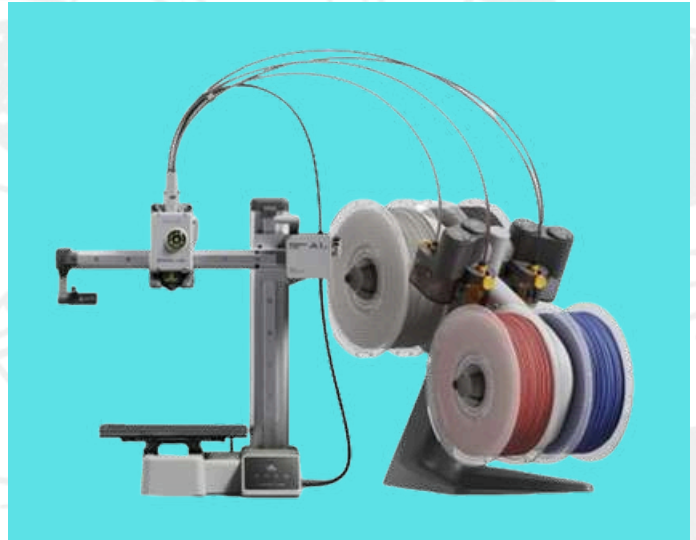


TINKERING LAB EQUIPMENT & TOOLS

SL-004

**Multicolor Advanced
3D Printer**

Basic 3D Printer



Learn the basics of 3D printing by designing digital models and turning them into real, three-dimensional objects using a basic 3D printer.

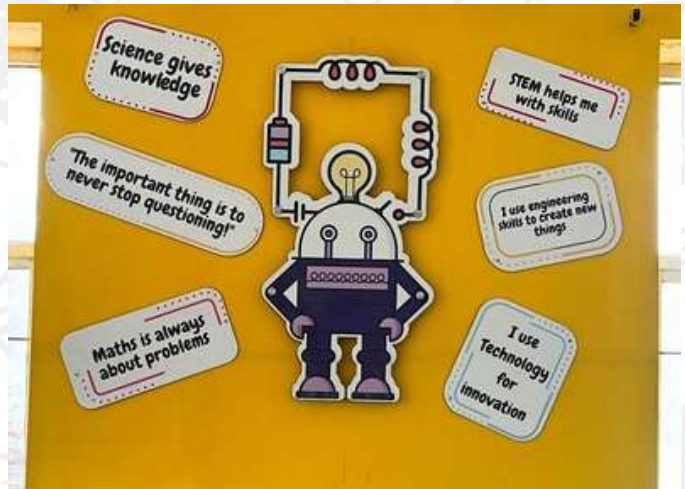
Create vibrant, multicolored 3D objects by turning digital designs into real models using advanced 3D printing.



STEM LAB INSTALLATIONS

Complete STEM lab setups designed to inspire innovation through hands-on learning, experiments, robotics, and technology.

SL-005



COMPOSITE SKILL LAB

SL-007



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

AI AND CODE LAB

Explore artificial intelligence and coding through hands-on projects that build computational thinking, creativity, and problem-solving skills.

SL-008



- 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.



DIGITAL MEDIA LAB

SL-009

- 👉 **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 🚀



WORKSHOP & FESTIVALS

PW-000



SCIENCE FESTIVALS

Celebrate science through exciting exhibitions, interactive experiments, and hands-on activities that spark curiosity and innovation.

PW-001



TEACHER TRAINING

PW-002



SCIENCE SHOWS AND WORKSHOPS

PW-003

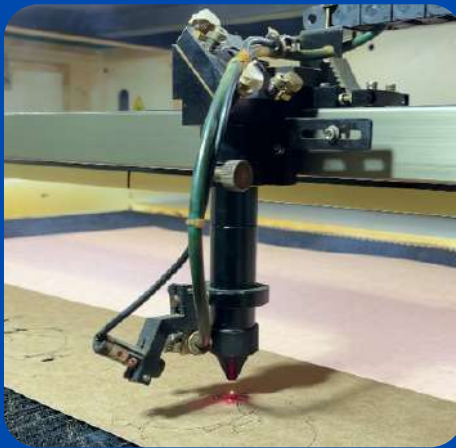


IN-HOUSE MANUFACTURING

16 YEARS OF LEGACY IN CREATIVE PEDAGOGY

BOTH IN STEM AND ROBOTICS

SUPPLY TO 350+ SCHOOLS EVERY YEAR



TRUSTED BY 500+ SCHOOLS



TRUSTED BY NGO | CSR



TRUSTED BY CORPORATES



CATALOGUE 2026-27



One Stop Solution for

Science | Technology | Robotics | Engineering | Arts | Maths

STREAM Programs

+91 8105162640

www.scienceutsav.com