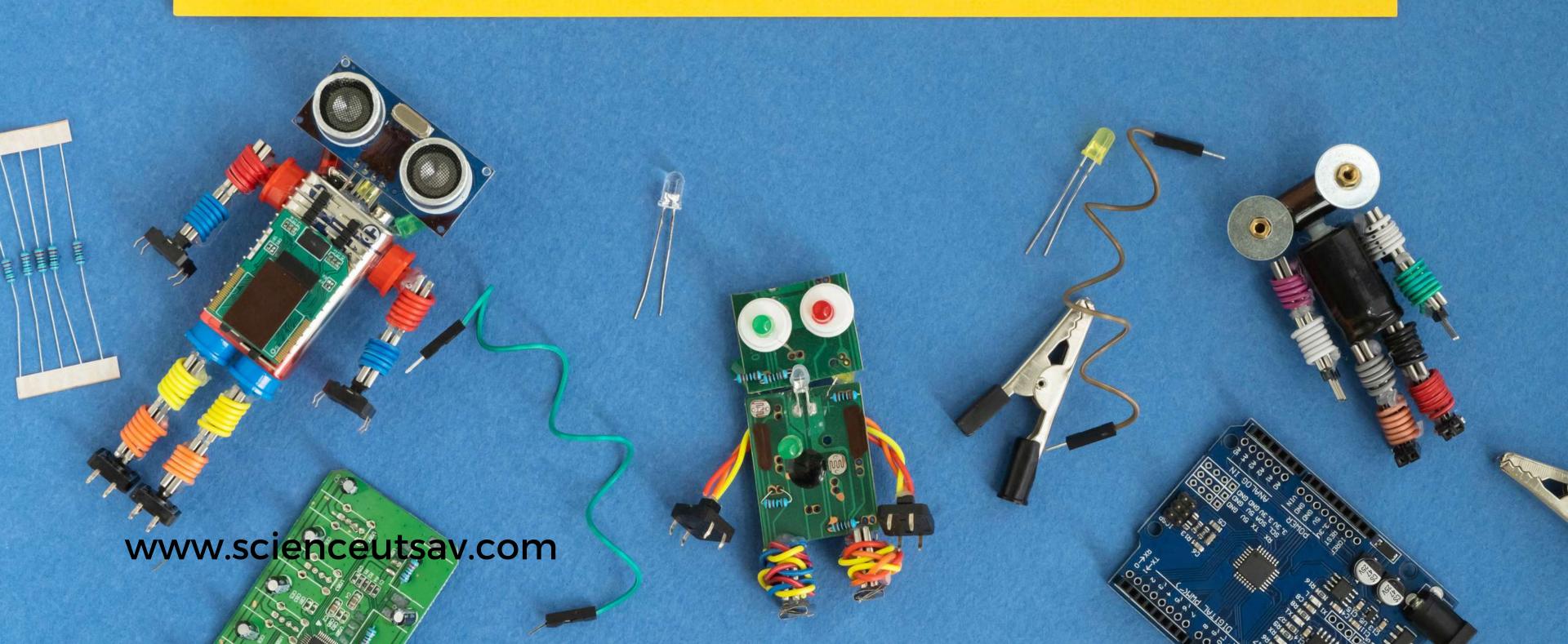
New Age STEM Lab

Makerspace and Tinkering Lab to create new age leadership









Why Modern Age Lab?



STEM education teaches students how to solve problems by using their **critical thinking and logical reasoning skills.**

STEM builds confidence in children by developing clarity in Science and Math concepts with Mindson activities paired with **Hands-on projects and experiments.**

STEM enables children to think smartly by allowing them to solve day to day engineering problems.



STEM promotes design thinking, creativity, research experimentation, prototyping and project building which lead to new ideas and innovations.





What it consist of?

ScienceUtsav aims at offering all our students a broad and balanced STEM curriculum that provides rewarding and stimulating activities to prepare them for the best social and cultural life.

1.MakerSpace Set up

Coding, Robotics, Internet of Things and Automation Lab

2.Realtime Problem Solving

STEM kits which are capable of solving realtime Engineering Build

3. LMS

Learning Management
System with structured
curriculum









1. Arduino powered Electronic Kit

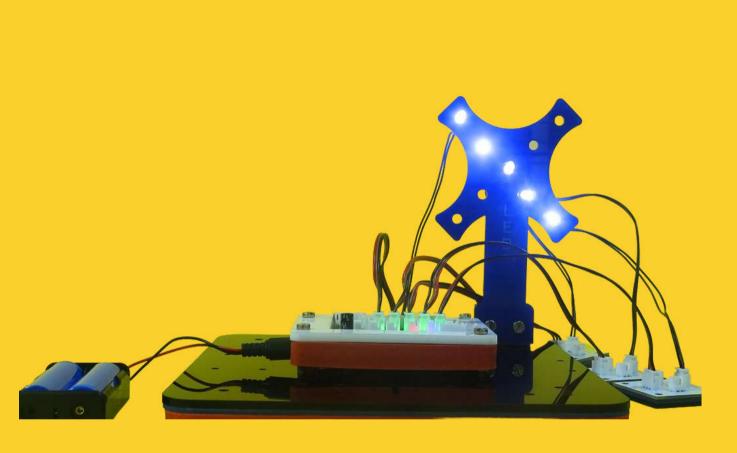
TINKERING | ROBOTICS | AUTOMATION KITS

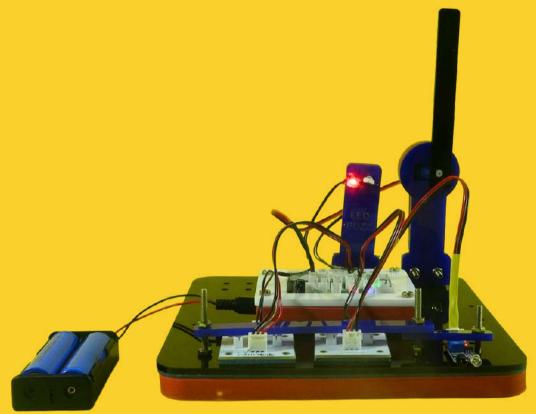




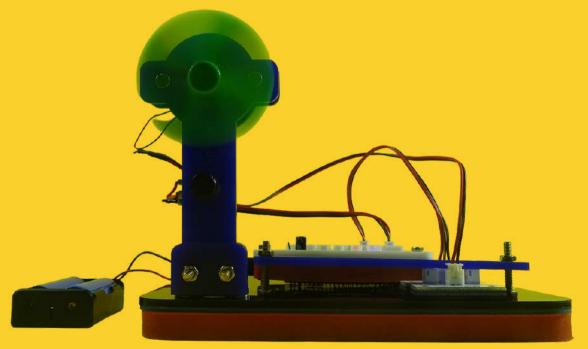
1. Arduino powered Electronic Kit

Capable of solving Realtime Engineering Problem













1. Arduino powered Electronic Kit

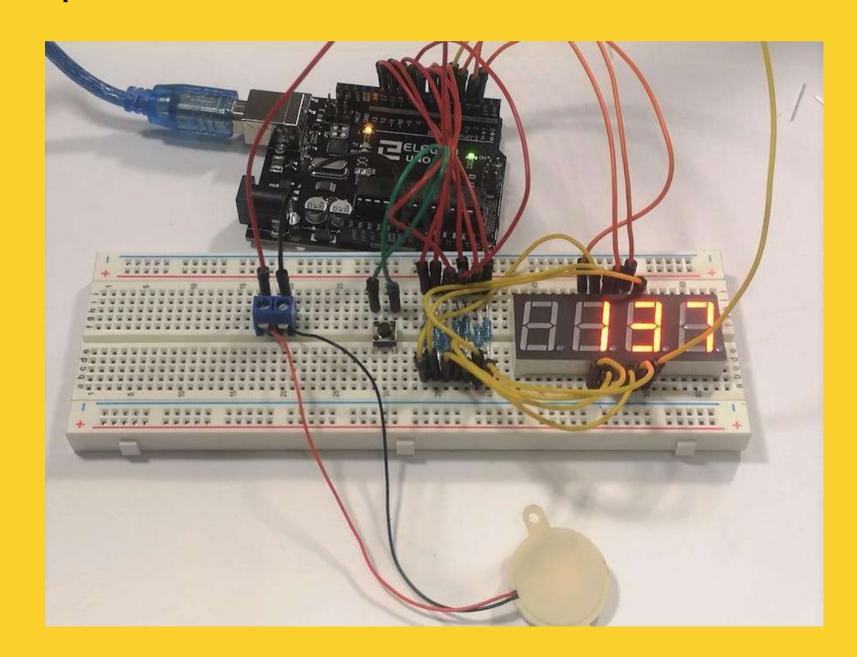
Sheild on the Arduino Uno Board which is reduces the wiring and complexing

Facility to connect Sensors and Output devices without Bread Board



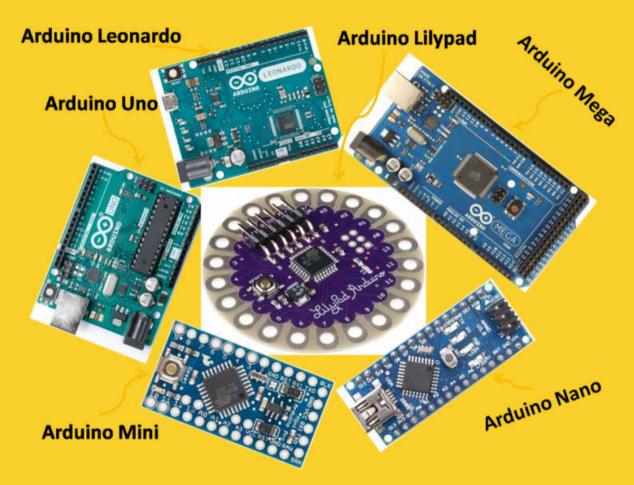
VS

Arduino based ScienceUtsav Kit



Classical Way

1. Science Utsav - Advantage



Arduino technology is an open-source electronics platform that's widely used for creating various electronic projects across the globe

Different microcontrollers with wide range of applications



Open sources Kit made easy with help of Sheilds and Add on PCBs which helps us to captures children's dreams eaily













Design thinking Takeaway Kits - Add on Support

Engineering an emergency Lamp



Prototype > Create > Ideate

Prototype: Prototype a Tilt Switch

Create: Design a Gravity Switch lantern

Ideate: Ideate your own emergency Lamp

Enginnering with Newton's Laws Prototype > Create > Ideate



Prototype: Prototype a Tilt Switch Create Thurst

with Fan

Create: Design a Motor Boat

Ideate: Ideate your own Fan powered cart

Create Spying Devices

Prototype > Create > Ideate



Prototype: Prototype a Simple Morse code circuit

Create: Design a Trip Alarm

Ideate: Ideate your own Spy device

Air in Action Prototype > Create > Ideate



Prototype: Prototype different types of propellers

Create: DDesign a Newton's Super Hero

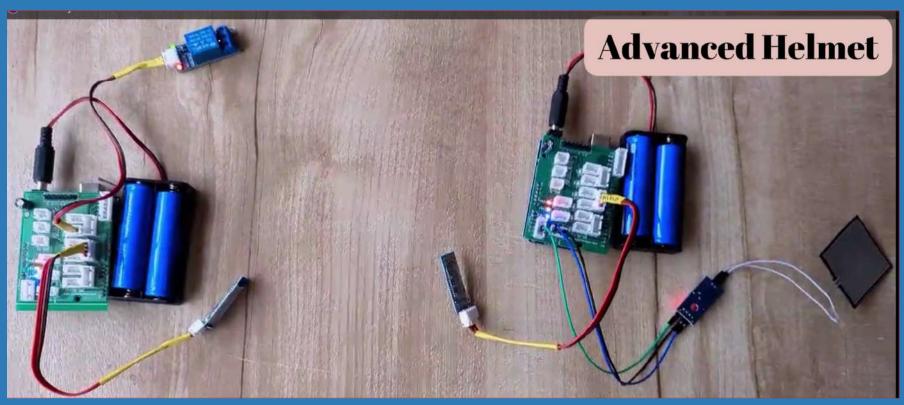
Ideate: Ideate your own Wind gadget

Design Thinking Projects - Add On

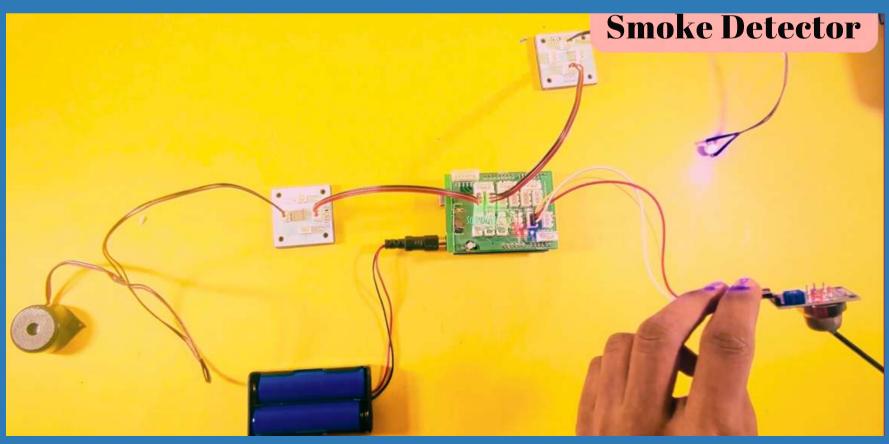


Realtime projects - Case Study



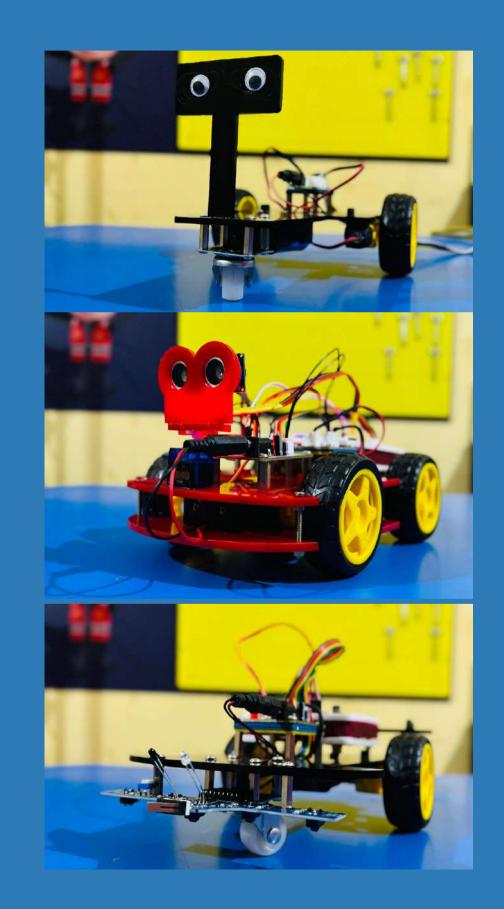


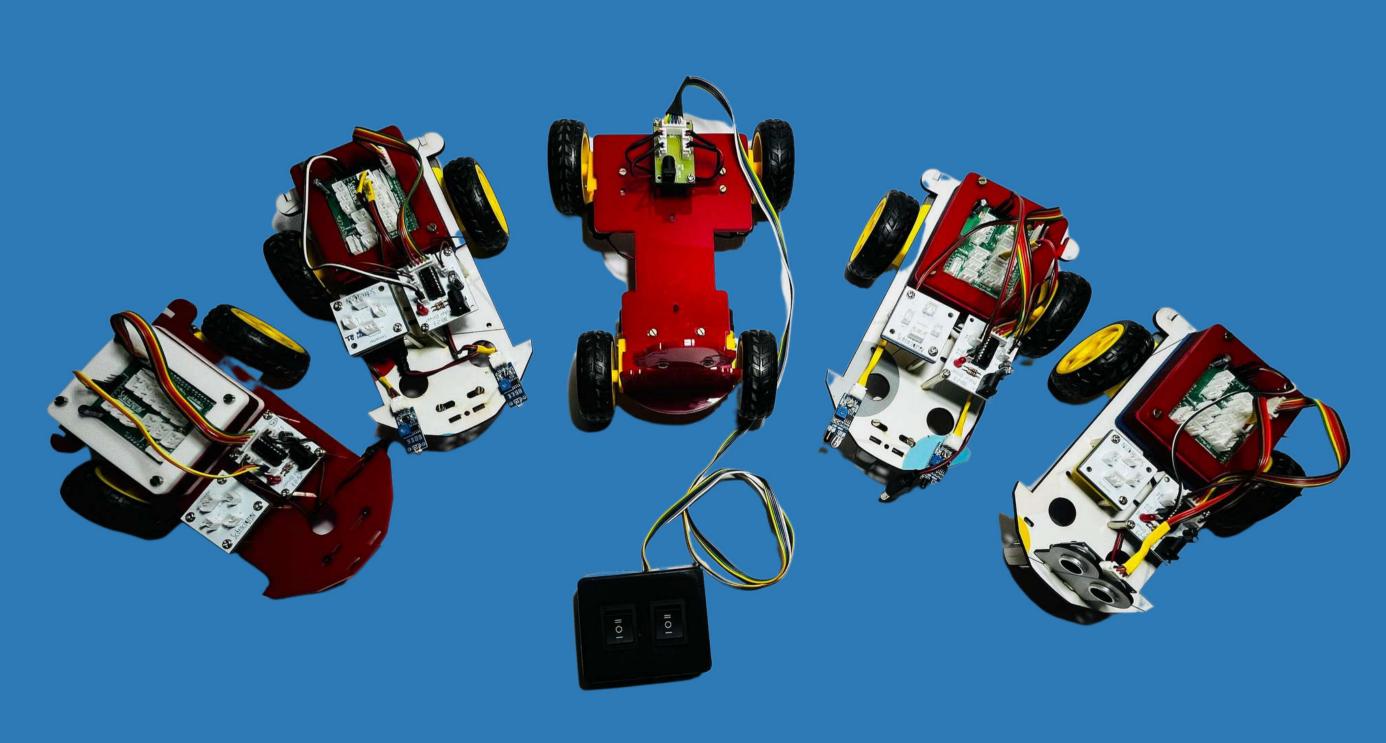






Easy to build multipurpose robots









Tinkering Lab & MakerSpace set up

















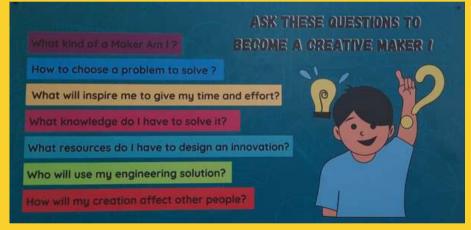




Installations









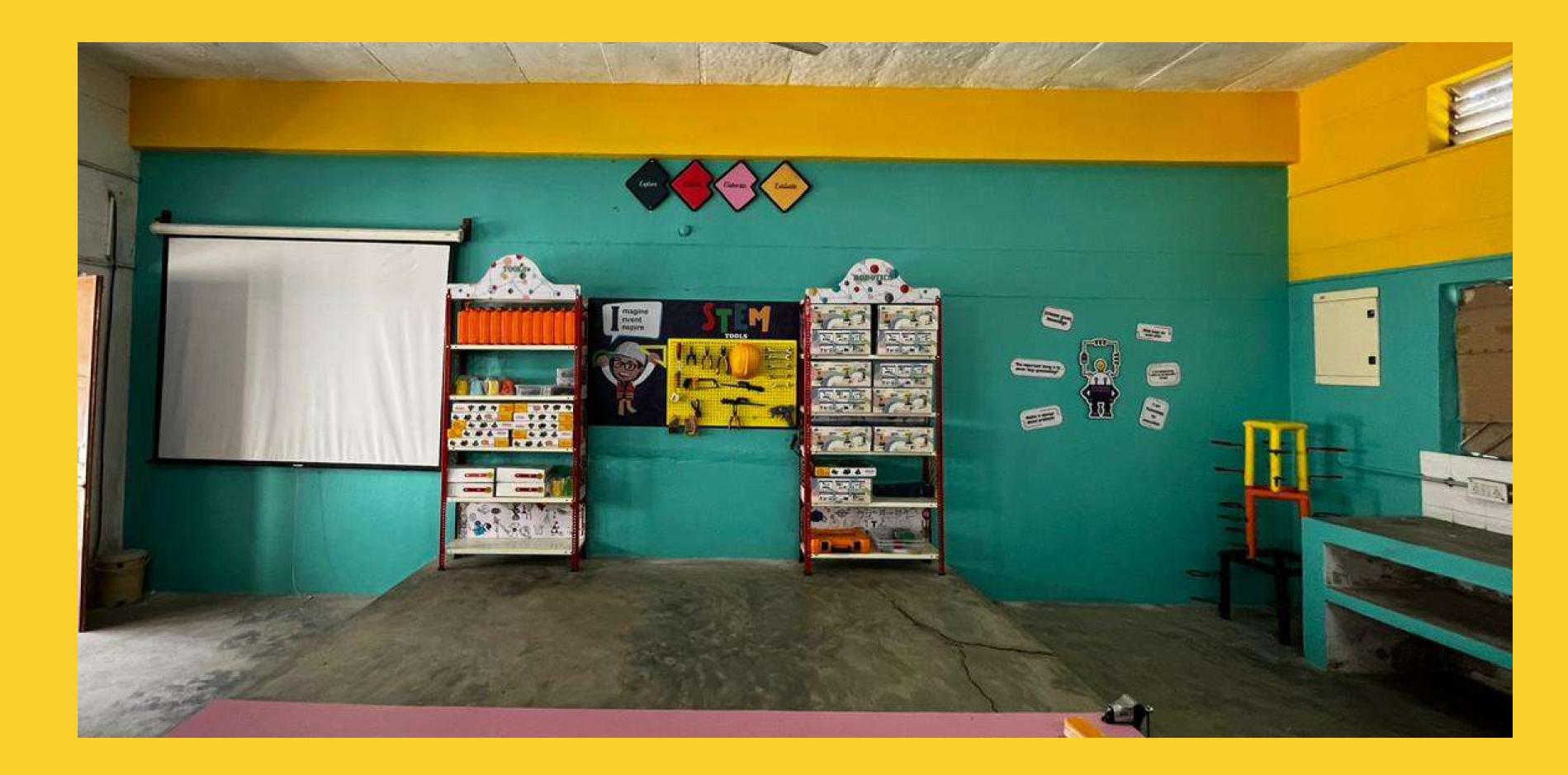






















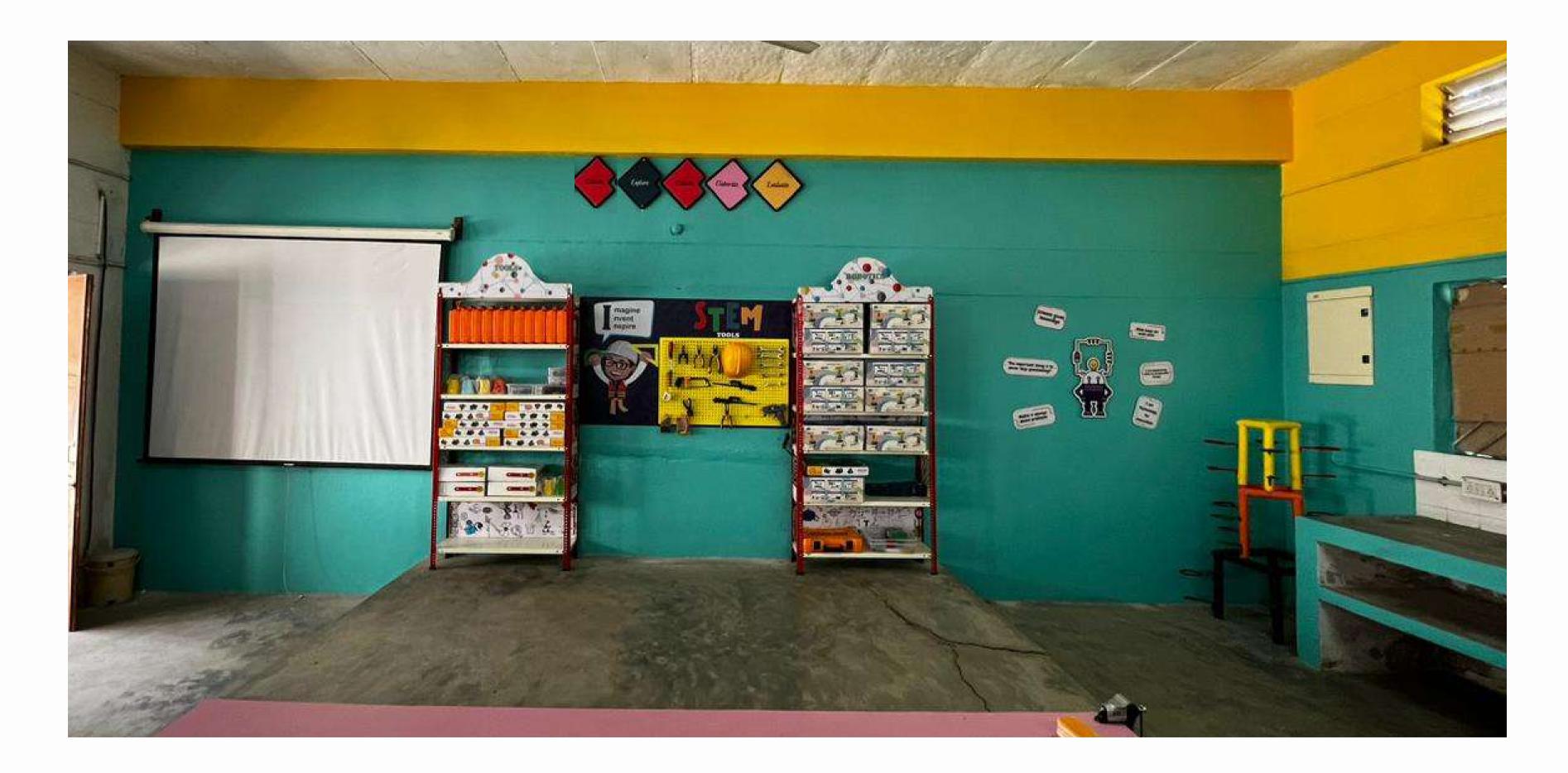
















Learning Management System

Structured curriculum - Sample

UNIT 01



Topics - Introduction to Robotics, Learn to program your Arduino with ardublocks and make output devices work in different pattern

How it helps - Cognitive ability, Presentation skills, Creativity





Topics - Learn about Different Sensors and integrate it with Arduino to make different projects

How it helps - Adaptability, Decision making, Critical thinking





Topics - Build a cart using Bo Motor, Wheels, Platform and start automating its operation using sensors

How it helps - Application of knowledge, Analytical skills, Problem Solving





Topics - Build an android application to operate a bot for different day to day applications

How it helps - Design Thinking and Problem Solving, Communication, Self management, Futuristic Applications

PLATFORM



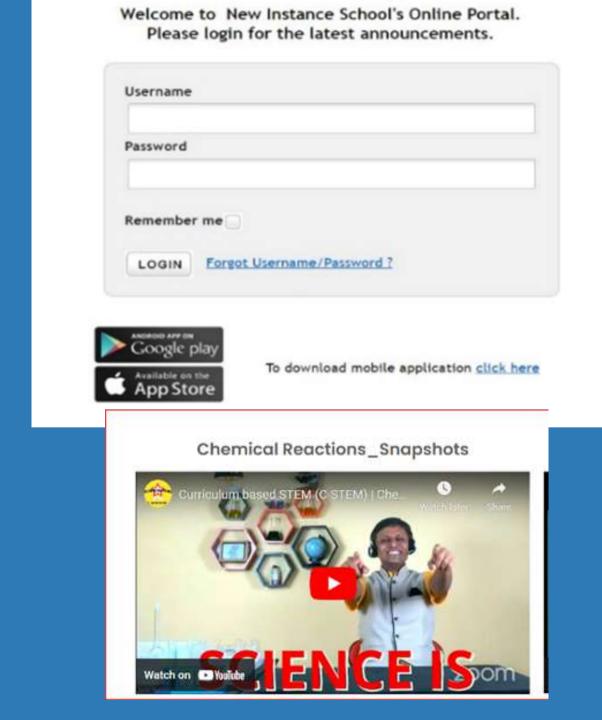
Ardublock

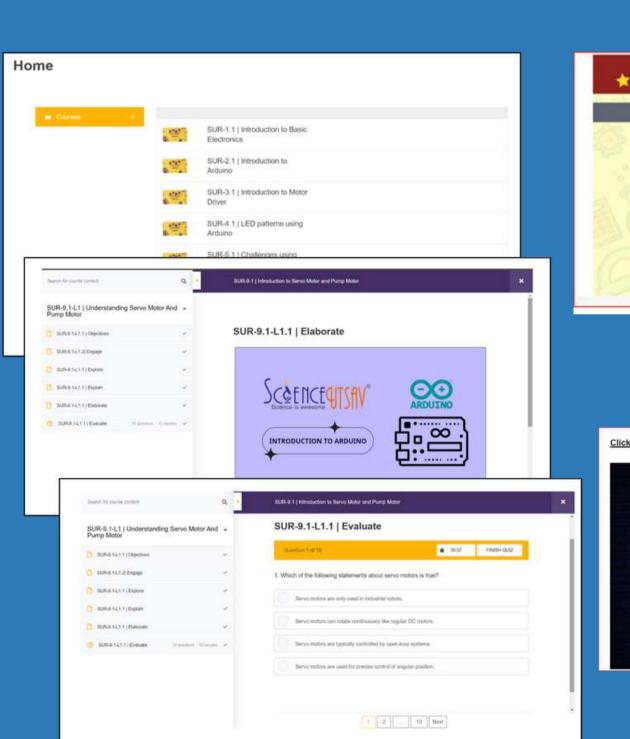
INCLUSIONS

- ALL PRACTICAL 20 CLASSES
- CONCEPT CLASSES
- PROJECT CLASSES
- REVISION CLASSES
- ASSESSMENT
- QUIZZES
- CLASS SUMMARY
- PRACTICE PROJECTS
- PROCEDURE DOCS

STEM Ecosystem

Unique Login Credentials | Structured Curriculum | On-demand Live Classes Hackathons and codathons | Awards and Recognitions | Quiz | Reprts











Certficate of Completion



CERTIFICATE OF COMPLETION

This certifies that



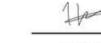
STEM

ACCREDITED

K. Abhinava Karthikeya

has successfully completed I am a Maker - STEM based Design Thinking Program





HARSHA ATRI DIRECTOR TECHNOLOGY





CERTIFICATE OF PARTICIPATION

This is presented to

Arbab Duttani

for attending Introduction course on I am a Smart coder - Block Based Coding Program





HARSHA ATRI Director Technology

SHASHANK KARNAM







CERTIFICATE OF

PARTICIPATION

This is presented to

Rakshit Taneja

for successfully completing I am a

Robo-Scientist, Arduino based STEM Program.



DIRECTOR TECHNOLOGY





CERTIFICATE OF COMPLETION

This is to certify

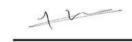
Rakshit Taneja

for completing Young Entrepreneur - A new age communication program.









HARSHA ATRI **Director Technology**



SHASHANK KARNAM **Director STEM**



CERTIFICATE OF PARTICIPATION

This is to certify

Rakshit Taneja

has attended an Introductory session on App Inventor - Application Development program.









HARSHA ATRI **Director Technology**



SHASHANK KARNAM **Director STEM**





SCEENCEUTSAV

This is to certify

CERTIFICATE OF

COMPLETION

Shlok K Kandala

for successfully completing I am a Smart coder - Logical Coding Program





SHASHANK KARNAM

Director STEM

