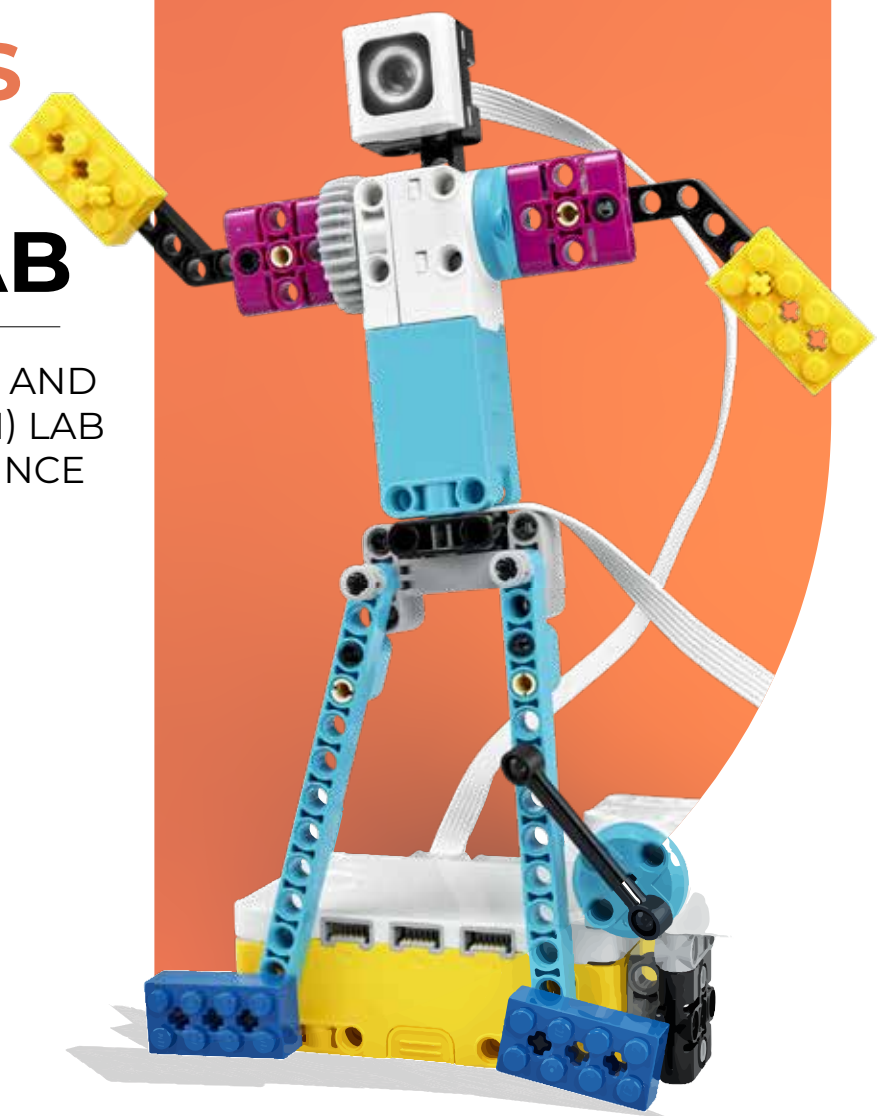


# RoboGenius

Let's Create the  
Leaders of Tomorrow

## ROBOGENIUS FUTURE LEADERS LAB

STEM, TINKERING, ROBOTICS AND  
ARTIFICIAL INTELLIGENCE (AI) LAB  
SOLUTIONS FOR SCHOOLS SINCE  
2006.



 **education**  
Reseller

  
**ARDUINO**  
EDUCATION

# FUTURE LEADERS LAB

The RoboGenius Future Leaders Lab is structured into four (4) flexible modules, allowing it to be tailored and configured to suit the unique goals, curriculum priorities, and aspirations of each school. Whether a school is just starting or aiming to scale its innovation programs, the lab offers flexible options to match its vision. Each module is designed to function independently or seamlessly integrate with others.

## MODULAR CONFIGURATION

RoboGenius Future Leader Lab is divided into different modules and can be configured and customized for each school as per their needs and aspirations.

Modules are designed to operate independently or can be added on to expand the learning experience of the students.

### MODULE 1

Tinkering,  
Robotics &  
STEM Lab

### MODULE 2

Arduino  
Inspiration  
Lab

### MODULE 3

LEGO Edu  
Innovation  
Lab

### MODULE 4

Artificial Intelligence (A.I.) Lab

## OUR UNIQUE “5C” METHODOLOGY



**Concept**  
Demystify the  
topics



**Connect**  
Real-World  
Insights



**Code**  
Digital  
Creations







**Contemplate**  
Analyse viable  
possibilities







**Continue**  
Ideate and  
Practice

Setup a new Future Leaders lab or Upgrade your existing lab with LEGO Education Robotics & Science Kits and Arduino Education Sets. Boost engagement and ignite creativity, teach concepts with fun filled hands-on projects that truly set your lab apart.

PRODUCT NAME	DESCRIPTION	PRODUCT IMAGE
<p><b>LEGO EDUCATION SPIKE PRIME SET (45678)</b></p> <p><b>GRADES: 6-12</b></p>	<p>The LEGO Education Spike Prime contains a selection of stackable LEGO elements, Sensors, Motors, Controllers, beams, connectors, axles, gears, pulleys, etc.</p>	
<p><b>LEGO EDUCATION SPIKE ESSENTIAL SET (45345)</b></p> <p><b>GRADES 1-5</b></p>	<p>LEGO Education SPIKE™ Essential, part of the LEGO Learning System, is the cross-curricular STEAM solution for elementary education. SPIKE Essential engages students in hands on investigation of STEAM concepts.</p>	
<p><b>LEGO EDUCATION BRICQ MOTION PRIME (45400)</b></p> <p><b>GRADES 6-12</b></p>	<p>The LEGO Education BricQ Motion Prime Set engages students in grades 6-8 in the exploration of physical science within a sports context. Part of the LEGO Learning System,</p>	
<p><b>LEGO EDUCATION BRICQ MOTION ESSENTIAL (45401)</b></p> <p><b>GRADES 1-5</b></p>	<p>The LEGO Education BricQ Motion Essential set engages grade K-5 students in the exploration of physical science within a sports context. BricQ Motion helps foster an understanding of forces, motion, and interactions.</p>	

Explore Authentic Educational Kits  
[SHOP.ROBOGENIUS.COM/CATEGORY/LEGO](https://shop.roboGenius.com/category/lego)  
 Contact for bulk pricing & Classroom Packs

# PRODUCTS & SOLUTIONS

PRODUCT NAME	DESCRIPTION	PRODUCT IMAGE
<p><b>ARDUINO EDUCATION ALVIK ROBOT SET (AKX00066)</b></p> <p><b>GRADES 3+</b></p>	<p>Alvik is a versatile and scalable learning robot that supports learners throughout their robotics and programming journey. This compact and powerful robot delivers limitless opportunities for hands-on learning and creativity.</p>	
<p><b>ARDUINO EDUCATION TINY MACHINE LEARNING KIT</b></p> <p><b>GRADES 10+</b></p>	<p>Tiny Machine Learning Kit teaches students to build and deploy ML models on microcontrollers using Python and TensorFlow Lite, featuring Nano 33 BLE Sense, sensors, and a camera module.</p>	
<p><b>ARDUINO EXPLORE IOT KIT R2</b></p> <p><b>GRADES 10+</b></p>	<p>This helps students design real-world IoT solutions, teaching data collection, cloud connectivity, and sustainability using sensors, Arduino Cloud, and hands on, project-based learning.</p>	
<p><b>ARDUINO EK R4 WIFI MADE IN INDIA</b></p> <p><b>GRADES 6+</b></p>	<p>A powerful Wi-Fi and Bluetooth-enabled board featuring the Renesas RA4M1, ESP32-S3, USB-C, CAN, DAC, OP AMP, Qwiic connector &amp; LED matrix, making it ideal for IoT and advanced prototyping.</p>	

Explore Authentic Educational Kits

[SHOP.ROBOGENIUS.COM/CATEGORY/ARDUINO](https://shop.roboGenius.com/category/arduino)

Contact for bulk pricing & Classroom Packs

# NEP 2020 AND SDGs ALIGNED

## HANDS-ON PROJECT EXAMPLES

Curriculum includes a wide range of projects from automation to IoT to AI and Robotics

SUBJECT - SCIENCE

### TOPIC ROBOTIC ASSEMBLY LINE

Building a model of a automated car assembly line

PLATFORM

LEGO Education Spike Prime (45678)



#### LEARNING OUTCOMES

- » Learn how automation functions.
- » Engineering - gear movement
- » Micro Python
- » Coding & Logical Thinking
- » Design Thinking

SUBJECT - ENGINEERING

### TOPIC SWIRL OMNI ROBOT

Design, Build and code a bot that can make sensor-based interactions to complete tasks through swirling movement patterns

PLATFORM

LEGO Education Spike Prime (45678)



#### LEARNING OUTCOMES

- » How varying wheel speed affects robot direction, useful in differential drives
- » Turning radius and curved motion in Locomotion
- » Programming motors to control movement
- » Mechanical & Structural Design

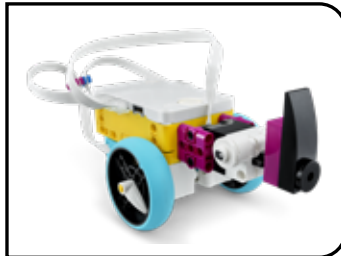
SUBJECT - MATHS

### TOPIC ALGEBRAIC EXPRESSIONS

Building and Coding a Robot that can be used to find the value of variables in algebraic equations.

PLATFORM

LEGO Education Spike Prime (45678)



#### LEARNING OUTCOMES

- » Advanced Computational thinking.
- » Easy start with robotics and STEM subjects.
- » Real-world applications in problem solving.
- » Develop solutions through teamwork skills.
- » Learn to build, test and evaluate robots.

SUBJECT - INTERNET OF THINGS

### TOPIC SMART HOME SMART CITY

Building an intelligent and automated smart plant monitoring system allowing remote management

PLATFORM

Arduino UNO EK R4



#### LEARNING OUTCOMES

- » Smart Agriculture
- » Electric and Electronics Circuits
- » Automation
- » Logic and Sequencing
- » Internet of Things

SUBJECT - ARTIFICIAL INTELLIGENCE

### TOPIC PAINTER ROBOT

Design, build and program a robot that can paint on surface as per instructions provided

PLATFORM

Arduino ALVIK



#### LEARNING OUTCOMES

- » Electronics and Electrical circuits
- » Robotics and AI Concepts
- » Motor Control programming
- » Logic and problem solving
- » Micro Python

# TESTIMONIALS



If any school plans to set up an ATL Tinkering Lab, RoboGenius should be the first choice. Their components are top-quality, and the trainers are highly skilled. The sessions are engaging and build real-world STEM skills.



**MRS. VANDANA DHAWAN**  
PRINCIPAL



Wow! What a team, what a management. We received excellent support while setting up our ATL Tinkering Lab. RoboGenius is definitely the right vendor. Trainers were great, & we're excited for this 5-year journey together.



**MRS. REEMA PUNJ**  
PRINCIPAL



RoboGenius is the most reliable brand for ATL Tinkering Labs. From setup to training, everything was well-managed. Trainers helped students build unique projects and inspired creativity through their 5C teaching model.



**MRS RAGINI SRIVASTAVA**  
PRINCIPAL

# CUSTOMIZED LAB SOLUTIONS



Your Complete Lab Partner - from Design to Delivery.

From setup to training and ongoing support, RoboGenius provides everything your school needs for a seamless STEM, Robotics, and AI Lab experience - ensuring long-term success and measurable outcomes.

**Experience You Can Trust**  
**Complete Turnkey Setup**  
**Custom Lab Design**

**Teacher Training & Empowerment**  
**Structured Curriculum & Projects**  
**Warranty & Technical Support**

Since 2006, RoboGenius has led the way in delivering hands-on education solutions for schools. Our STEM, Robotics, & AI Labs are aligned with NEP 2020, feature structured curricula, engaging projects, comprehensive teacher resources, and complete implementation support for long-term school success.

**RoboGenius Learning Solutions Limited**

SCO 39, 2nd Floor, Sector 56, Gurgaon - 122001, Haryana

Call: +91 95605-39600 | [sales@robogenius.com](mailto:sales@robogenius.com) | [www.robogenius.com](http://www.robogenius.com)

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