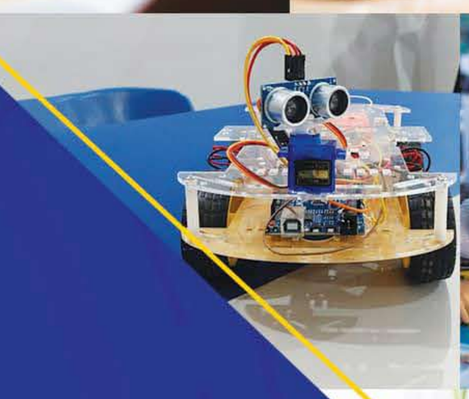
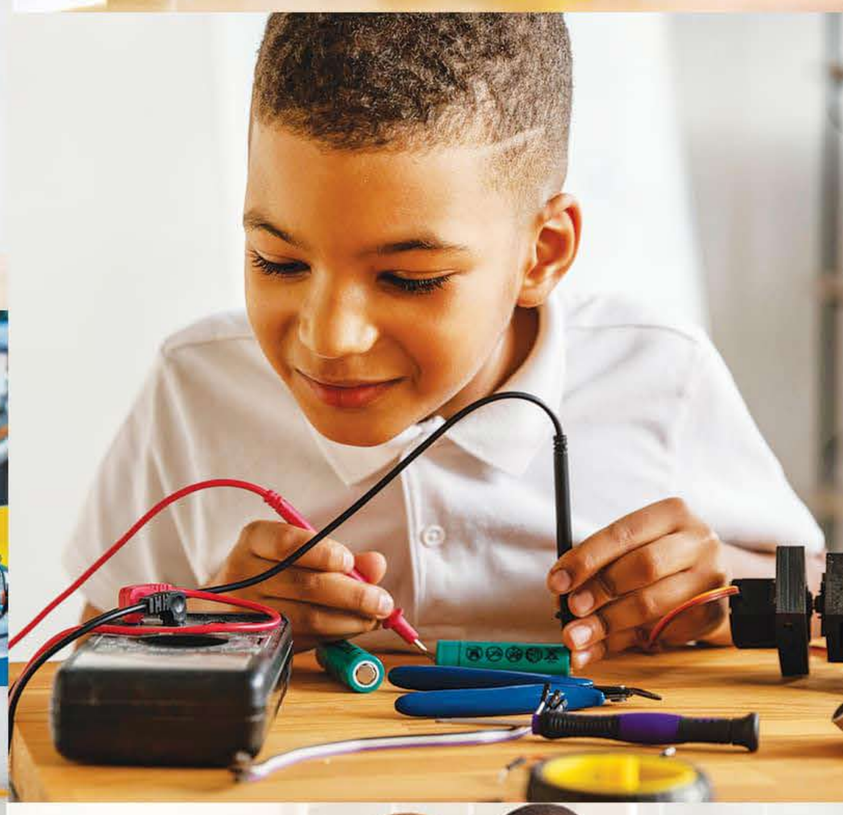
STEMROBO™

Innovation, Creativity & Learning





STEMROBO

IGNITING INNOVATION

S SCIENCE

T TECHNOLOGY

E ENGINEERING

A ARTS

M MATHEMATICS

Coding • Robotics • Artificial Intelligence(AI) • Machine Learning(ML) • Augmented Reality(AR) • Virtual Reality(VR) • IoT

STEMROBO TECHNOLOGIES

Innovation, Creativity & Learning

STEMROBO provides **'End-To-End Solution to K-12 Schools'** for **'Nurturing Innovation & 21st Century Skills'** among young students of age 6-18 years across the globe. We offer young students an opportunity to explore, experience and bring innovation through a world class **STEAM, Artificial Intelligence, Robotics & Coding** curriculum integrated with our unique & affordable **'Technology Products and Solutions'** delivered in an online or hybrid model; thereby enabling and empowering students to be able to become **Creative - Thinkers and Problem - Solvers.**

Together, let's unlock the potential within each student, ignite a passion for Innovation, Creativity & Learning, and pave the way for a brighter tomorrow.

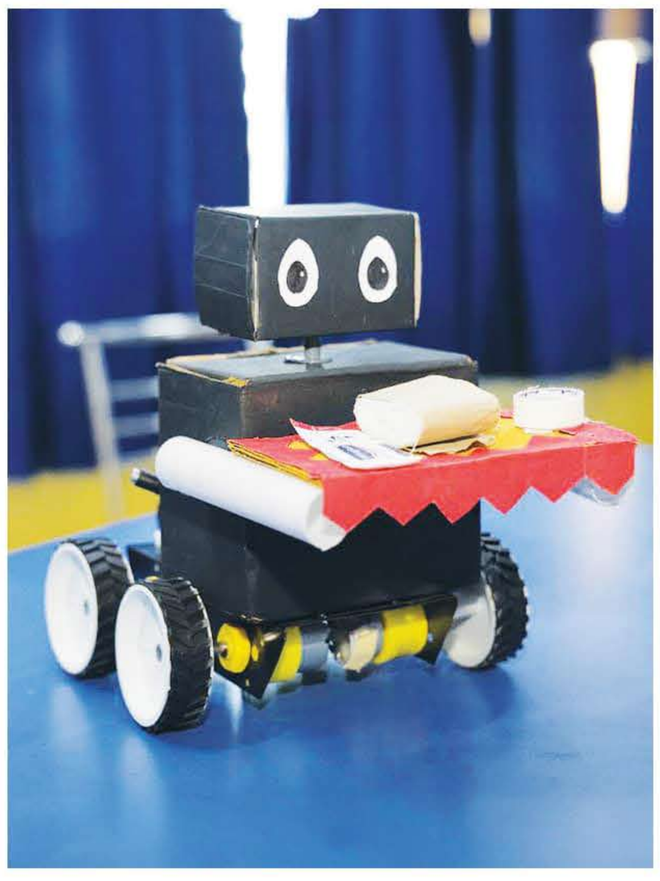
www.stemrobo.com

Mission

Our mission is to build an ecosystem focused on leveraging technology in education where **STEAM, Robotics, Coding, Artificial Intelligence & AR/VR** are utilized as crucial tools for kids to become smart in their academics and be able to solve modern world problems.

Vision

The company's vision is to nurture innovation and 21st century skills in K-12 students across the globe and prepare them for the future technological world. We are on a journey which will help every student to elevate core skills like **Logical Thinking, Creativity, Computational Thinking and Problem - Solving.**



OUR OFFERINGS FOR K-12 SCHOOLS

- STEAM
- Robotics
- Coding
- Artificial Intelligence & IOT
- Machine Learning
- AR & VR

PARTNER WITH INDIA'S LEADING BRAND

TRUSTED BY

3000+	1 MN+	30+	30K+
SCHOOLS	STUDENTS	COUNTRIES	TEACHERS

2000+ RECOGNIZED INNOVATIVE PROJECTS

IMPACT SO FAR

- 35+ Patents Filed
- 40+ Copyright Ideas
- 1000+ ATL Marathon
- 100+ Inspire Awards-MANAK
- 100+ CBSE National
- 1000+ CBSE Regional
- 50+ Global Level
- 200+ National Level

एसटीपीआई STPI Software Technology Parks of India

Electropreneur™ PARK

सत्यमेव जयते
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry
Government of India

DIPP CERTIFIED

ISO 9001 2015 CERTIFIED

NEED OF STEMROBO'S INTEGRATED EDUCATIONAL PROGRAMS TO BUILD 21ST CENTURY READY SCHOOLS AND STUDENTS

Why STEAM ?

- Nurture future problem solvers.
- Unlock logical and creative mindset from young age.
- Develop innovation culture among young students across the globe.

Why Experiential Learning ?

- Engaging and reflecting on the experience
- Trying out and testing new skills and abilities
- Gaining knowledge from the experience

Why Design Thinking Approach ?

- Teaches students to question.
- Makes students open minded and flexible.
- Students can give effective reasoning for each problem.

Forbes

130 Mn jobs will be created in AI itself by 2025.

World Economic Forum

By 2030, 65% of children entering primary schools today will ultimately end up working in completely new jobs that don't yet exist.

McKinsey Report

Around 300 Mn people may need to switch occupational categories and learn new skills like technological, social and higher cognitive skills by 2030.

U.S. Department Of Education

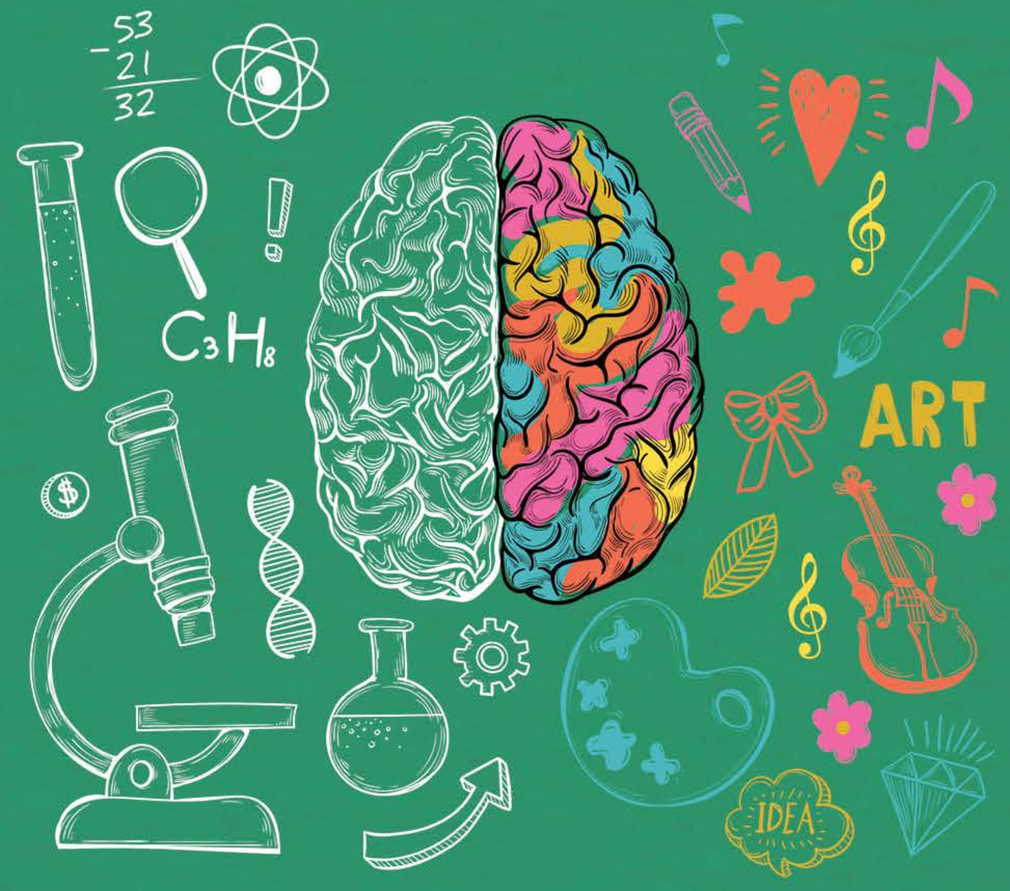
"In an ever-changing, increasingly complex world, it's more important than ever that our nation's youth is prepared to bring knowledge and skills to solve problems, make sense of information, and know how to gather and evaluate evidence to make decisions." Enhancing such skills lies at the heart of STEM and STEAM education.

As the studies suggest that the inclusion of STEAM curriculum at an early age demonstrates higher level of 21st century skills set in students which is very necessary for our coming generation to compete in the global job market.

Careers of the future will not just be limited to those with a specific set of skills or knowledge, they will also involve creativity and critical thinking.

- ☑ Critical Thinking
- ☑ Communication Skills
- ☑ Creativity
- ☑ Problem Solving
- ☑ Perseverance
- ☑ Collaboration
- ☑ Innovation Skills
- ☑ Social Skills

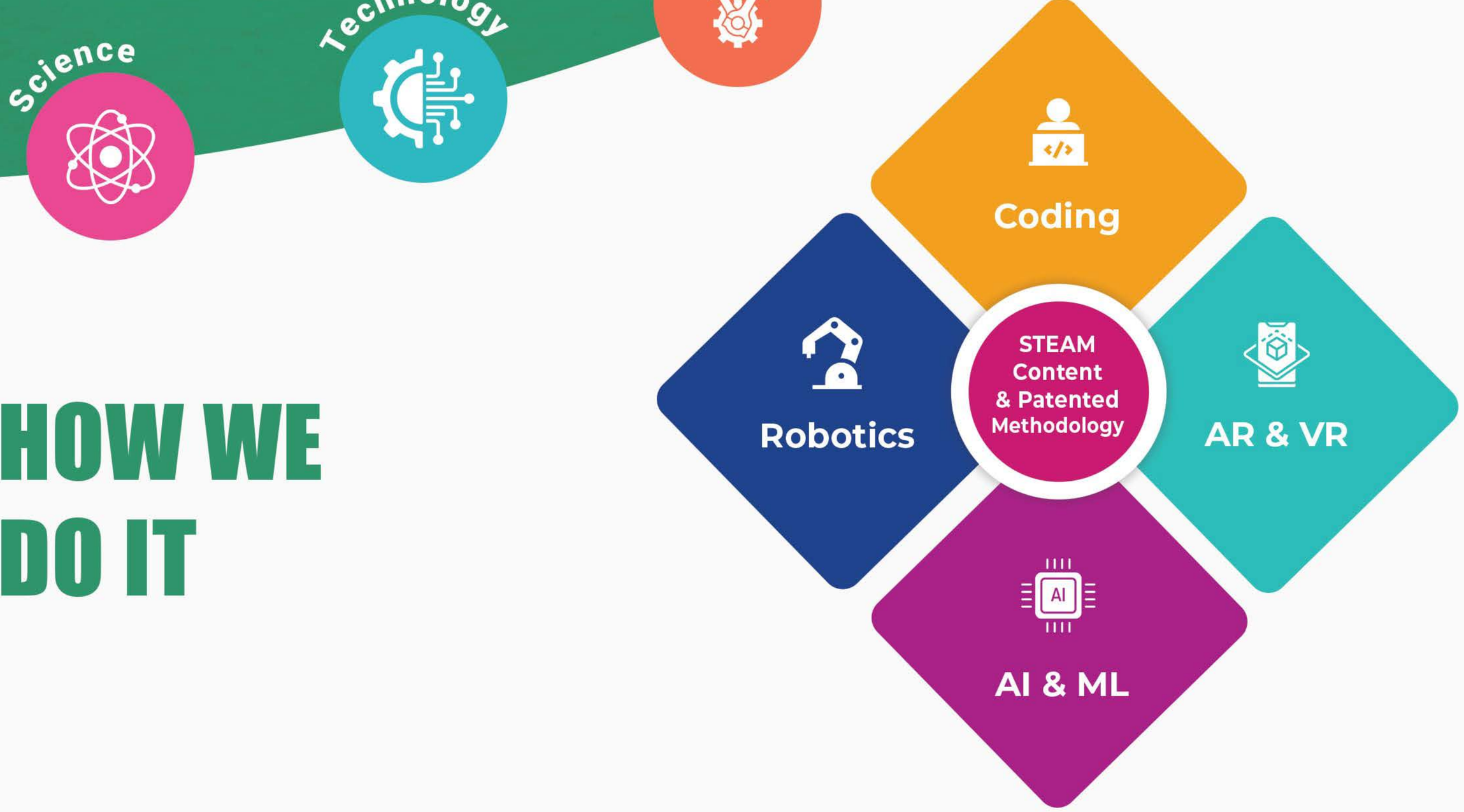
STEMROBO
AN OVERVIEW



WHAT WE DO

- Preparing students for rapidly changing technological world.
- Innovation & 21st Century Skills.
- Empowering kids to become Creative Thinkers & Problem Solvers.
- Integrated End-To-End Solution for schools aligned with NEP 2020.

HOW WE DO IT



OUR OFFERINGS FOR K-12 SCHOOLS

STEAM & ROBOTICS

STEAM and Robotics is an educational program that aims to prepare students for the 21st century workforce by equipping them with the skills necessary to solve complex problems and innovate in a rapidly changing world. Robotics allows students to learn STEM concepts through hands-on activities. They learn how to program, design, and make their own robotics projects/models. STEAM-Robotics typically focuses on project-based learning, where students work in teams to design and build solutions of real-world challenges.

CODING & ARTIFICIAL INTELLIGENCE

Coding and AI is a fun and engaging way to introduce young learners to the world of technology and programming. Kids start with block-based coding that use visual, colorful blocks to represent code. Through coding, kids have the ability to create their own interactive games, stories, animations. AI needs to become part of the school curriculum as basic technology literacy. Through hands-on activities and projects, students can gain a practical understanding of AI and explore its potential for creating innovative and real-life projects.

AUGMENTED REALITY & VIRTUAL REALITY

AR/VR provides a smart learning environment that brings students to the center of the learning environment. AR/VR based immersive and experiential learning has the potential to create a deeper level of engagement with target topics, in a distraction free environment. Moreover, it empowers teachers to better understand a student's connection with the material being taught, to identify possible gaps in knowledge and to attend to those issues in a timely manner. This would make the experience much more relevant and meaningful, for both students and teachers.

ATAL TINKERING LAB

ATL is a dedicated innovation and experimentation space within Indian schools, established as part of the Atal Innovation Mission (AIM) by NITI Aayog, Govt. of India. ATL aim to inspire and nurture innovation, problem-solving abilities, and technological interest among students. STEMROBO is leading edtech company to setup more than 2000+ ATLs nationwide. Our objective is aligned with this program to create an environment of innovation, creativity amongst Indian students.

OUR OFFERINGS FOR EDUCATORS & PARTNERS

EDUCATORS TRAINING PROGRAM

Our online Teachers Training Program offers educators the chance to upskill and elevate their careers through transformative education. We provide professional development courses specifically designed for teachers, ensuring they stay at the forefront of 21st century teaching and learning. As part of our commitment to empowering educators, we offer specialized training for schools through our Educators Training Program.

CORPORATE SOCIAL RESPONSIBILITY (CSR)

Our program is designed to offer relevant education to underprivileged children, engaging them in subjects where they can discover their true potential through new learning methodologies, including fun-filled, interactive, and DIY activities. We're committed to providing equal opportunities ensuring no child is left behind because of their location or financial status. Be a part of our CSR partnerships to contribute to the educational evolution of every child, regardless of their background, and help prepare India for the new technological world.

FRANCHISE/PARTNERS/ACTIVITY CENTER

Embark on a transformative journey in the world of education technology by joining hands with STEMROBO, a globally acclaimed leader in STEM education. Our franchise opportunity empowers aspiring entrepreneur to establish a thriving edtech business. With a proven track record of success, & 50+ partners working across the globe, STEMROBO offers comprehensive package that includes innovative curriculum, and experiential learning kits with expert guidance.

WORKSHOPS / WEBINARS

STEMROBO conducts webinars and workshops aimed at introducing new advancements in K-12 education. Our goal is to provide support for advanced-level projects and innovations. Through these sessions, we strive to keep educators and students updated of the latest developments in the field, fostering a dynamic learning environment that encourages creativity and exploration. Join us in these interactive webinars as we delve into cutting-edge educational techniques, empowering the K-12 community to embrace and excel in the ever-evolving educational landscape.

OUR METHODOLOGIES

CIC Methodology and Design Thinking Approach serve as the foundational framework of all our STEMROBO programs and curriculums.

CONSUMER

Activity-based Learning (ABL)

INNOVATOR

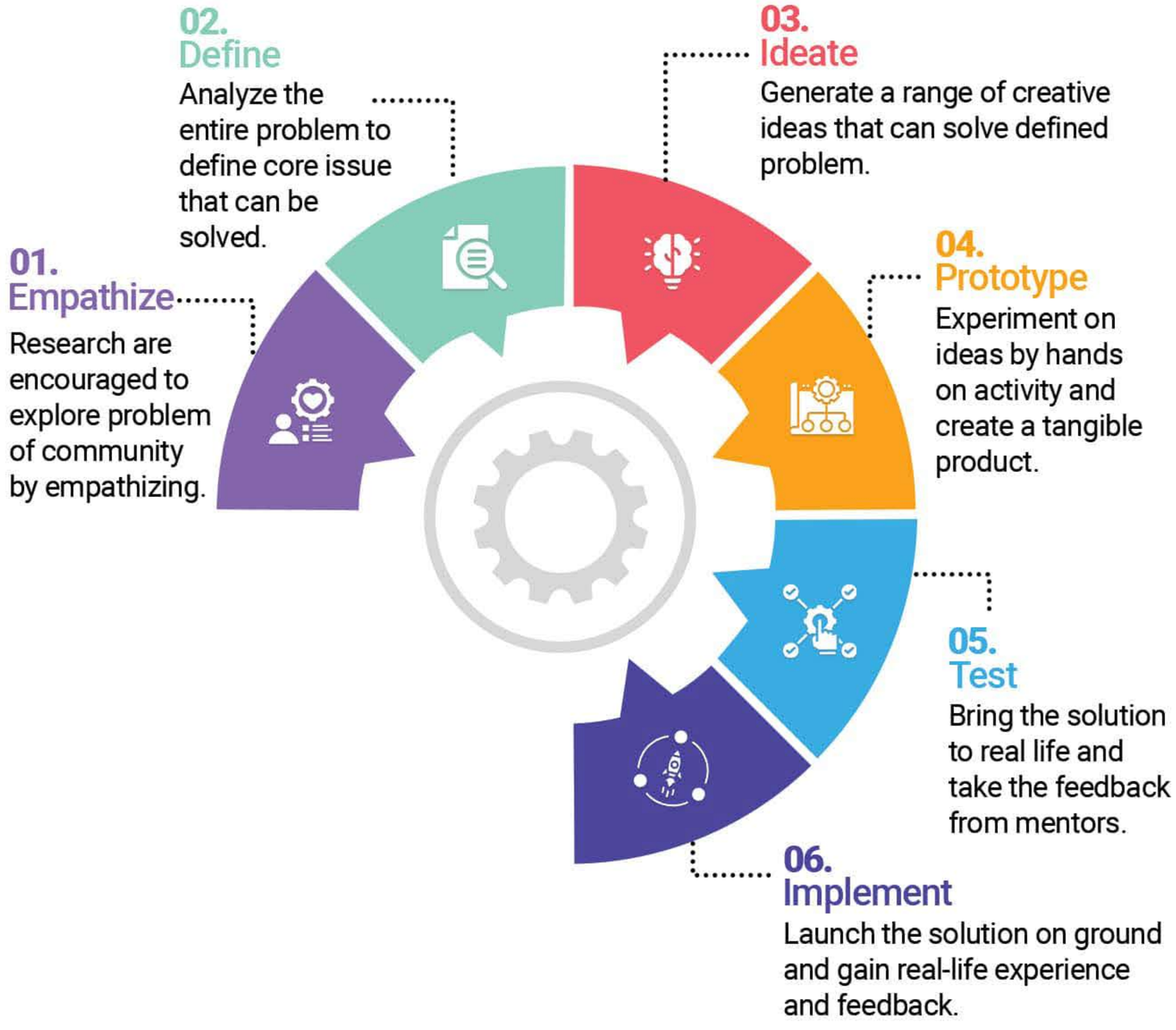
Project-based Learning (PBL)

CREATOR

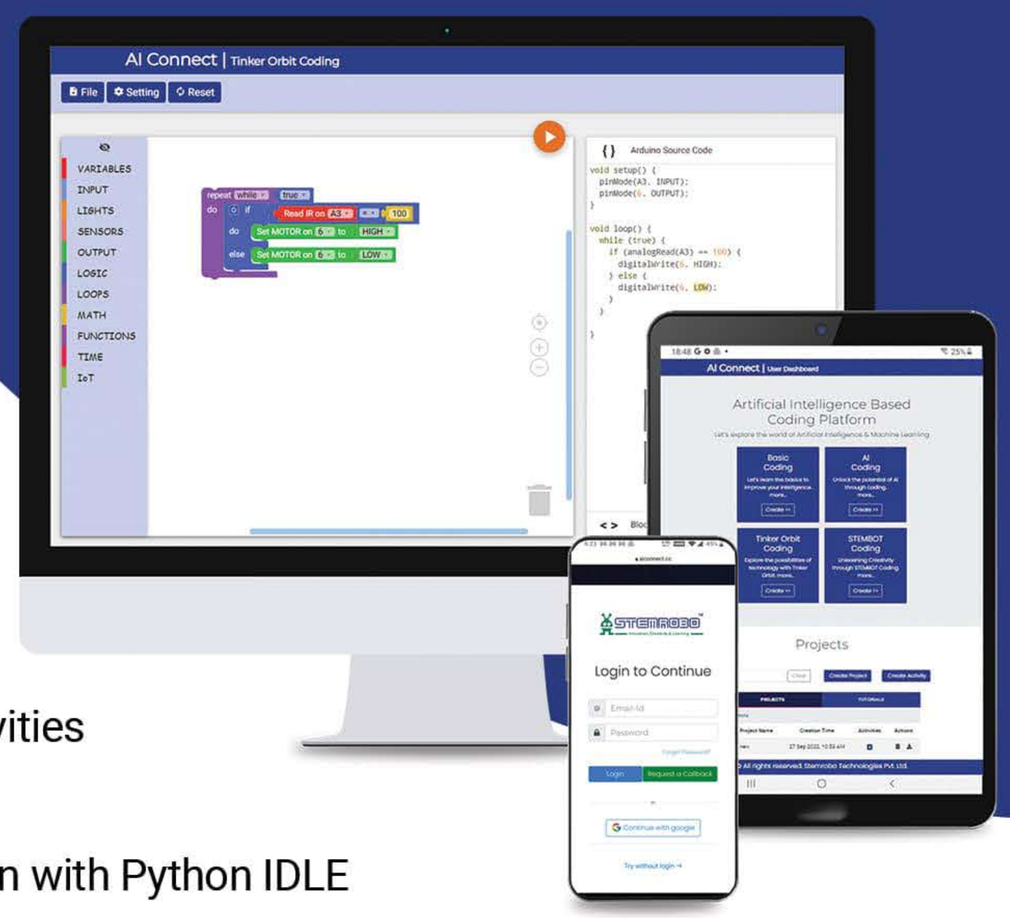
The proprietary CIC **(Consumer→Innovator→Creator)** methodology is meticulously designed to guide students through a progressive journey, commencing as consumers and advancing into **innovators** and ultimately **creators**. Students embark on their journey by engaging as consumers, working with various DIY Kits and coding platforms to perform activities crafted around real-world scenarios. This **Activity-based Learning (ABL)** assist students in ideation and growth as innovators, encouraging them to think outside the box. Ultimately, students transform into **creators**, gaining the capability to innovate and drive change in the world by addressing real-life problems aligned with **UNSDGs** through **Project-based Learning (PBL)**.

Design Thinking Approach

We foster real-world problem solvers through 'Design Thinking' integrated into STEAM education. Our curriculum encourages hands-on projects where students identify issues, empathize, brainstorm, prototype, and iterate solutions. This process nurtures creativity, empathy, critical thinking, and problem-solving skills, promoting collaboration and innovation. Students apply STEAM knowledge to solve genuine challenges, preparing for impactful roles. We prioritize interdisciplinary learning, project-based tasks, and a supportive, diverse environment.



OUR SOFTWARE PLATFORMS



AI Connect

World's first unified AI & ML Coding Platform.

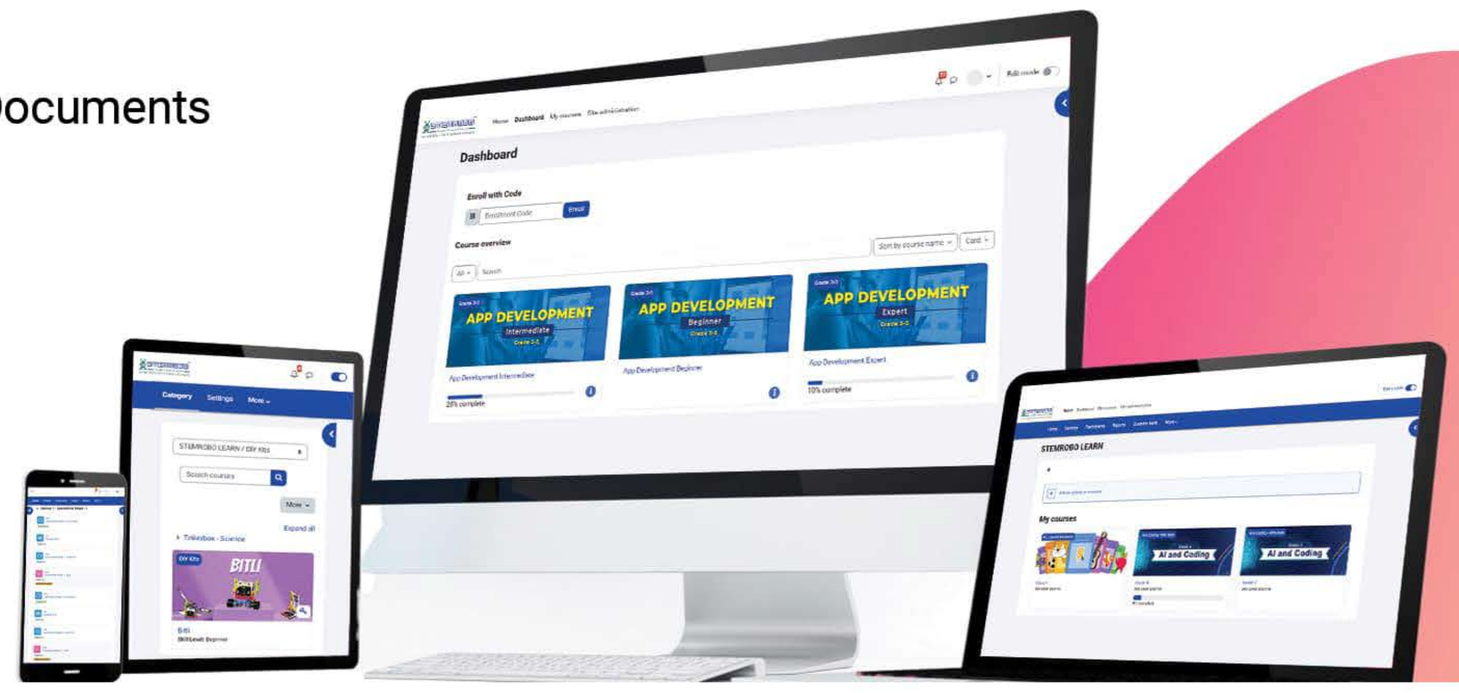
- Easy and User Friendly Interface
- Diverse Python Activities
- Block-Based Python Programming
- Seamless Integration with Python IDLE
- Block to Text Conversion
- Graphical Python Activities
- Textual to Block-Based Programming
- AI and ML Based 200+ Interactive Activities

STEMROBO LEARN / LMS

Discover the world's first Learning Management System (LMS) dedicated to STEM education. Our revolutionary LMS is designed to work seamlessly both Web and through a Mobile App, providing students with 24×7 access to interactive content. Students can engage in online live sessions, attempt quizzes and assignments, while teachers can effortlessly teach, conduct exams, and monitor students' progress. With our cutting-edge LMS, management can accurately measure the impact of the program.

On STEMROBO Learn Platform, access our online courses to guide you in the exploration of STEAM.

- Certification for Students & Teachers on completion of course
- 24 x 7 Access to Platform
- Live Session feature
- Access to Interactive Videos and Documents
- Quarterly Progress Reports
- Compatible with PC/Mobile
- Assessment at Regular Intervals



OUR
IN-HOUSE DIY KITS

Tinker Orbits

- Robotics and IoT 2-in-1 Kit which teaches electronics, AI and IoT.
- Color-coded input and output plug and play modules.
- Programmable kit that encourages creative projects.

Tinker Orbits Project Based Learning

- 13+ easy to assemble multifunctional models.
- Engaging projects around IoT and sensors.
- Develop the creative mindset in students.

BitLi

- Engages K-12 students in hands-on Robotics, and AI/ML projects.
- Block-based coding, curriculum-aligned, Project-based learning.
- Block-based assembly and programmable kit develops problem solving skills.

STEMBOT

- Empowers students with AI and ML concepts via hands-on experiments.
- Easy to program, in-built with multiple sensors and actuators.
- Easy to program via GUI based Block Coding for multiple AI projects.

STEAM Paper Circuit

- Teaches the basics of electronics with art and creativity.
- Encourages the exploration of electronics concepts among primary students.
- Safe, user friendly kit for crafting wonderful ideas around electronics.

OUR
IN-HOUSE DIY KITS

Tinker 'N' Design

- Augmented Reality enabled 3D pen based prototyping kit.
- Ideal for primary students for 3D visualization.
- Ideal for training 2D to 3D modeling in math concepts.

Mechatron

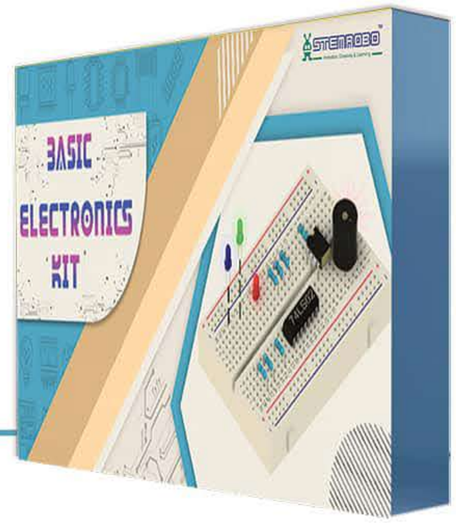
- Mechanical Construction kit suitable for children aged 6+.
- Teaches application of concepts like - force, friction, gear, motor, etc.
- 150+ parts, 20+ robotics projects, easy to assemble with guided manual.

Arduino Robotics Kit

- Prototyping kit suitable for exploration of electronics and programming.
- Encourages students for DIY projects and product development.
- Robust, reusable institutional kit supported by gamified coding platform.

Basic Electronics Kit

- 50+ fun filled circuit combinations with reusable electronics components.
- STEM expert-curated content for fun and practical learning of electronics circuits.
- Enables solderless circuits, simulation and realtime prototyping.



Smart Circuit

- Boundless creativity through 60+ DIY electronics projects.
- Specially designed magnetic modules for making learning fun.
- Easy-to-follow instruction manual for activity and project-based learning.

OUR IN-HOUSE DIY KITS

Pick & Place Tank

- Durable design with built-in gripper for hands-on learning.
- Used for pick & place activities and multiple competitions like Robo War.
- Visualize industrial automation through wireless programming.

Arctic 3D Printer

- Enjoy hands-on learning with our DIY IoT ready Arctic 3D Printer.
- Unleash your creativity & imagination with enormous design possibilities.
- Transform student projects with professional 3D printed prototypes.

Drone

- Easy to code, modular, open source drone for young learners.
- With DIY, experience the fun of building and learning the drone technology.
- Program your drone using GUI based IDE with sample projects.

Fun Linker

- Enhances creativity for young learners with 240+ sticks & building blocks.
- Promotes hand-eye coordination, imagination, and logical thinking skills.
- Endless creative combinations teach spatial thinking & stimulate basic building techniques.

Humanoid

- Pre-built commands for movement, dance, and storytelling.
- Easily programmable via remote control.
- A versatile educational humanoid robot.

WHY STEMROBO ?

First Company to Provide End-To-End Implementation Support for the K-12 Schools & Students.

Intuitive Methodologies

Content delivery using intuitive methodologies to maximize student's grasp over concepts.

In-house R&D Team

Designs, develops and upgrades the innovative DIY kits and platforms.

200+ Engineers

Strong team of Innovation engineers and educators for on ground implementation support present across the country.

Domain Expert

Engineers for conducting webinars, workshops and providing support for advanced - level projects and innovations.

STEMROBO Learn

24x7 LMS support present with graded progressive curriculum for self paced learning to meet the need of every student.

PAN India Presence

More than 3000+ schools are associated with us across India.

Experiential Learning

Aim to nurture computational thinking with creative hands-on activities.

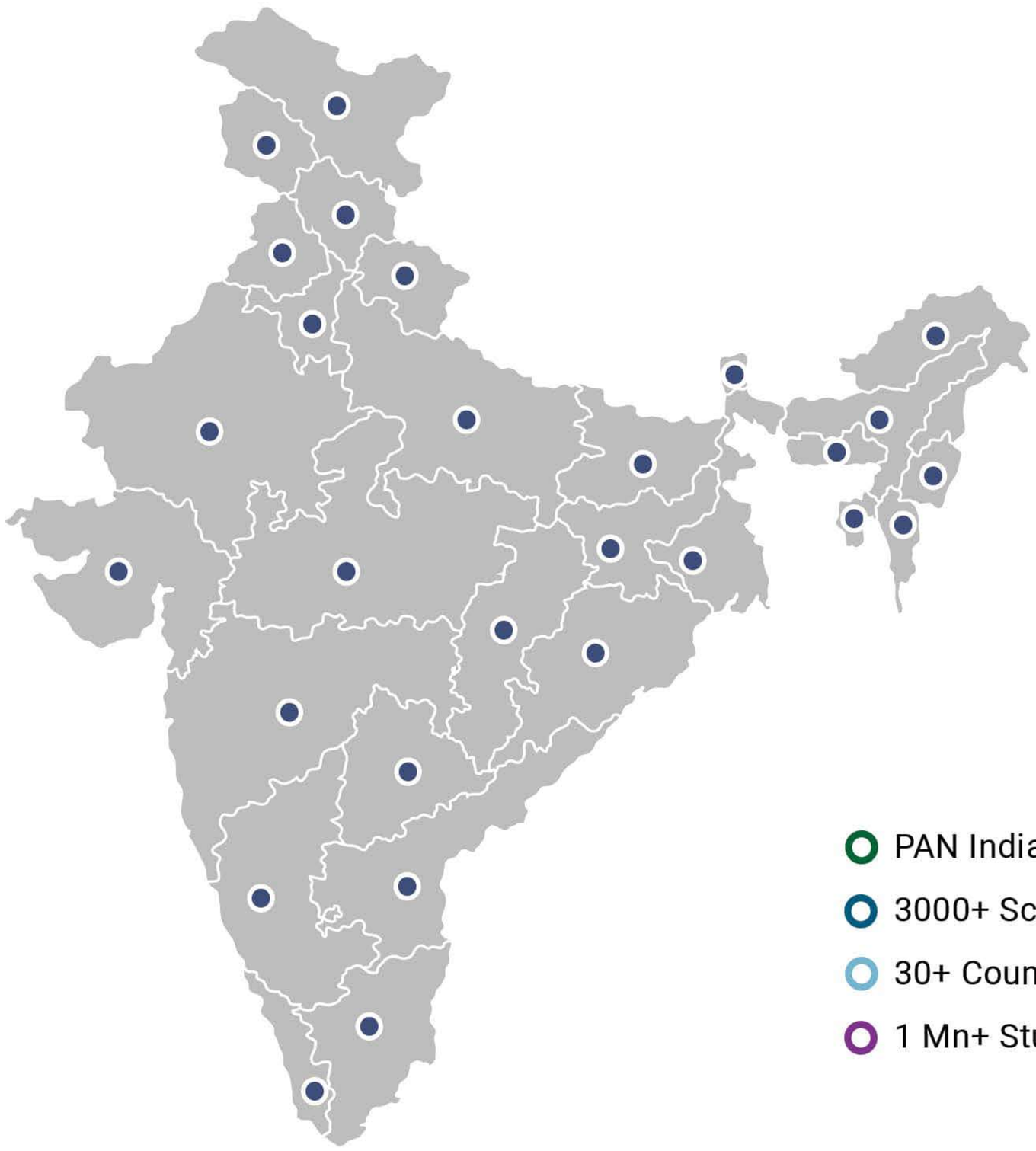
Feedback Oriented

Our programs, curriculum and execution evolve with time and customer feedback.

Quality Tested

Deliver quality in lab equipment and services that is unmatchable.

Nationwide Presence



- PAN India Presence
- 3000+ Schools
- 30+ Countries
- 1 Mn+ Students

Global Presence

Our Associated Schools

तमसो मा ज्योतिर्गमय
Scindia Kanya Vidyalaya

THE CIVIL SERVICES SCHOOL

Mount Abu Public School
We Trust In GOD

D.A.V. COLLEGE MANAGING COMMITTEE
ESTD 1886

JAYPEE PUBLIC SCHOOL
JPS
विनय कौशलाभिव्यक्तिः

WITH GREATER GLORY TO GOD
ASN SR. SEC. SCHOOL
MAYUR VIHAR

ASPAM
EDUCATE TO EMPOWER

BILLABONG HIGH
INTERNATIONAL SCHOOL

MODERN SCHOOL
1920 CENTENARY 2020

DON BOSCO SCHOOLS INDIA

NPS
INTERNATIONAL SCHOOL
AN EXPOSURE TO GLOBAL THINKING

RYAN
RYAN INTERNATIONAL
GROUP OF INSTITUTIONS

SHIV NADAR SCHOOL
Education for Life

strawberry fields
HIGH SCHOOL

GENESIS
GLOBAL SCHOOL
Promising Futures

Lotus Valley
INTERNATIONAL SCHOOL, NOIDA
Opening Minds, Widening Horizons
CBSE Affiliation No.: 2130732, CBSE School Code:60330
School Recognition No.: 7228/15-7-04-16/97/2004

MAMTA MODERN
SR. SEC. SCHOOL

Birla Vidya Niketan
Sarala Birla Group Of Schools

SERVICE BEFORE SELF
SALWAN PUBLIC SCHOOL

SCOTTISH HIGH™
INTERNATIONAL SCHOOL
GURGAON

Bal Bharati
PUBLIC SCHOOL

MERIDIAN SCHOOL
Connecting the Mind and Heart

Vidya Devi Jindal School
Hisar

LOVE YOUR NEIGHBOUR AS YOURSELF
FATHER AGNEL SCHOOL

APEEJAY
EDUCATION SOCIETY

Rajmata Krishna Kumari Girls' Public School

K.R. MANGALAM
WORLD SCHOOL

THE INDIAN
PUBLIC SCHOOL
PERSEVERANCE EXCELLENCE INTEGRITY

सेन्ट्रल एकेडमी
CENTRAL ACADEMY

RAMJAS SCHOOL PUSA ROAD
श्रद्धा–ज्ञान–कर्म

Mayo College
LET THERE BE LIGHT

JBCN
International School

D. GOENKA
SCHOOL

BOSCO

DUTY · DEVOTION · DISCIPLINE
Sunbeam School

TECHNO INDIA GROUP PUBLIC SCHOOL

केन्द्रीय विद्यालय संगठन

AMITY INTERNATIONAL SCHOOL

VELAMMAL
NEW-GEN SCHOOL
(Following CBSE Curriculum)
@ Velammal Vidyalaya

NEVER GIVE IN
The Lawrence School

VANDYA
INTERNATIONAL SCHOOL

THE MANN SCHOOL
DISCIPLINE · KNOWLEDGE · PATRIOTISM

POTENTIAL EST INTUS
Mount Litera
Zee School

& many more...

Strategic Alliances & CSR Partnerships

Electropreneur PARK
MINISTRY OF
ELECTRONICS AND
INFORMATION
TECHNOLOGY
Government of India

unicef

HCL

AIF AMERICAN INDIA FOUNDATION
IBM

intel

NASSCOM

एसटीपीआई
STPI
Software Technology Parks of India

bharti
Bharti Foundation

My उड़ान
The Indian EXPRESS

अंक ANK
GlobalLogic

adani
Foundation

Aseema

NAVJYOTI
India Foundation
Towards Self-Reliance

DITO
FOUNDATION

United Way
United Way Bengaluru

CSRBOX

ENNOBLE

AKANKSHA™
Aspire. Achieve. Be the Change.

AIC IIT DELHI
Sonipat Innovation Foundation
NITI Aayog | AIM ATAL INNOVATION MISSION | FITT

& many more...

HEAR FROM OUR ASSOCIATED SCHOOLS

T E S T I M O N I A L S

MRS. JYOTI ARORA

Principal

Mount Abu Public School, Delhi

STEMROBO team of experts have provided us with excellent technical support and their trainers assigned to our school were dedicated, energetic and committed. We would definitely recommend the team to other schools.

★★★★★

MRS. GEETA GANGWANI

Principal

Bal Bharti Public School, Rohini

We have collaborated with STEMROBO to provide tinkering and innovation platforms to our students. AI Program has been running successfully in the school and students have been greatly benefitted by the best in class services provided by STEMROBO.

★★★★★

MRS. SWARNIMA LUTHRA

Principal

ASN Sr. Sec. School, Delhi

STEMROBO has an innovative, enthusiastic team that delivers what they promise by inculcating the same mindset in our students. I highly recommend them to everyone looking for STEM Education in their schools.

★★★★★

DR. RICHA VERMA

Headmistress

KIIT World School, Delhi

In the 4 years duration of our association with STEMROBO, we really want to appreciate their services and products. We want this association to be a long one.

★★★★★

MRS. ROOMA PATHAK

Principal

M.M. Public School, Delhi

The dedication and expertise of Innovation Engineers from STEMROBO can be seen in their work as they never hesitate to walk the extra mile to deliver on their promise.

★★★★★

MR. KAUSTUBH OMAR

Convener

ISSTF & Vibha Brahamavart

Thank you STEMROBO for joining and supporting us. Best wishes to your company, I believe your company will achieve more and more. You are the real meaning of STEM education.

★★★★★

HEAR FROM OUR ASSOCIATED SCHOOLS

T E S T I M O N I A L S

SWAMI VIDYAMRITANANDA

Principal

Ramakrishna Mission Vidyalaya, Tripura

STEMROBO training triggers inquisitiveness among students to innovate and solve real world problems. We highly recommend their services.

★★★★★

MR. RAJEEV SHRIVASTAVA

Coordinator

Sarasvati Vidya Mandir, Rambagh

STEMROBO is taking initiatives to help the kids to be innovative. Every effort is being done by this young energetic and enthusiastic team for the welfare of the young generation. They have provided excellent services to their beneficiaries.

★★★★★

MRS. MINAKSHI KUSHWAHA

Principal

Birla Vidya Niketan, Delhi

I highly admire the cooperation and program organizational skills of STEMROBO. They are doing a wonderful job.

★★★★★

MR. ARUN GUPTA

Principal

Doaba Public School, Hoshiarpur

"STEMROBO" Highly qualified team, we have got excellent service from the company. I am impressed with their teaching methodology to students & Teachers. I highly recommend to those schools who are looking for STEM Education or to introduce new technologies.

★★★★★

MR. DANISH

Coordinator

Ryan International School, Gujarat

STEMROBO is a highly motivated and enthusiastic brand. You can never make a mistake having business with them. A big thanks to team STEMROBO to setup the Innovation Lab In our school.

★★★★★

KUNAL SHARMA

Student

Innovation Lab has helped a lot in polishing my skills and giving me a platform to showcase my talent. All mentors were very helpful and supportive. I am thankful to them for helping me so much.

★★★★★

OUR CORE
TEAM

ANURAG GUPTA
CEO & Founder

RAJEEV TIWARI
CFO & Founder

Anoop Gautam
Chief Business Officer

Abhinav Gupta
Chief Operating Officer

Saket Saurabh
IT-Director

Divyajyoti Mishra
Subject Matter Expert

Sandeep Gupta
School Partnerships

Atul Mishra
Operations and Execution

Kriti Sharma
School Partnerships

Abdul Rashid
Accounts and Finance

Anwar Warsi
Human Resources

Avinash Mahato
Product Development

Shivaang Sangal
Corporate Partnerships

Rohit Kathuria
Partnerships & Alliances

Suwan Kumar Ram
Partnerships & Alliances

Akshit Jain
Curriculum and Methodology

Shweta Gupta
Operations and Execution

Jayesh Upadhyay
Operations and Execution

Mohit Vyas
Operations and Execution

Nikesh Sharma
Operations and Execution

Vivek Kumar
Operations and Execution

Shubham Rana
Operations and Execution

Nitin Sharma
Operations and Execution

Ashish Gupta
Operations and Execution

Sourav Sarkar
Operations and Execution

Subhash Kumar
Operations and Execution

Sarvesh Naik
Operations and Execution

Sourab K Shetty
School Partnerships

Amarpreet Singh
School Partnerships

RahulDev Sana
School Partnerships

Akanksha Chaturvedi
School Partnerships

Nidhi Yadav
School Partnerships

Rajat Gupta
School Partnerships

Salil Dalela
School Partnerships

Supan Paul
School Partnerships

Sagar Sharma
School Partnerships

Alka Kumari
School Partnerships

Dharmendra Kumar
School Partnerships

Ankit Kumar
School Partnerships

Srishti Sehgal
School Partnerships

Saurabh Kumar
Software Development

Malay Joshi
Innovation & Design

Akanksha Rajput
Product Innovation

Roopali Bhragudev
LMS Support

Vipul Gupta
Procurement and Inventory

Abhay Prasad
3D Printer Team

Neha Jaiswal
B2C - Tinker Coders

Shubham Gupta
Operations and Execution

Apoorv Maheshwari
B2C - Tinker Coders

Aala Subhani
B2C - Tinker Coders

Divya Tewari
Branding & Marketing

Sugandha Saxena
Creative Designer

Shah Nawaz Warsi
Video Editor

EVENTS

The Game Changers Coalition Workshop held at Indian International Centre, Delhi organised by UNICEF, wherein STEMROBO as Technical Partner.

Indian CSR Awards - 2022

Representing India at CeBit, Germany

Recognition by SIS founder & M.P.

Featured in "STARTUP NATION" on CNBC Awaaz

With industry Leaders at TiE Global Summit

BITLI Launch Event at STEMROBO, Noida

Awarded at ELDROK India Summit 2019

Robotics lab inauguration at Govt. Sarvodaya Vidyalaya, New Delhi with Dept. of Education, Govt. of Delhi

India International Science Festival (IISF) 2022 at MANIT Bhopal.

STEMROBO Director Mr. Anurag Gupta has been invited to #IIT Kanpur as a guest speaker on #Robotics and #AI!

Education Excellence Conclave, held in Ahmedabad, India.

Indian ASEAN Startup Summit 2023 Malaysia

MEDIA COVERAGE

BW EDUCATION

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Stemrobo Expands Operations To Ghana, Establishes Tinkering Labs

The Company will be providing training in robotics, experiential learning, Stem education, IoT, and artificial intelligence to more than 3000+ students

14 April, 2022 by BW Online Bureau

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This bootstrapped edtech startup has teamed up with schools to teach STEM-Robotics and nurture innovation

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Edtech startup STEMROBO aims to help students to learn, program, and experiment in the field of STEM-Robotics. It has tied up with 1,500 schools.
Read all the latest updates on COVID-19 here.

Anurag Gupta and Rajeev Tiwari have been in the semiconductor and embedded industry for over 15 years. However, both felt the need for a venture that could come up with an India-centric solution for learning outcomes in the K-12 segment with innovative products, hardware, and software. In 2016, this led the duo to start Delhi-NCR-based STEMROBO.

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STEMROBO expands operations to Ghana, establishes Tinkering Labs in over 50 schools

STEMROBO™ Innovation, Creativity & Learning

STEMROBO's engineers from India will be providing training to the local engineers and teachers

STEMROBO Technologies, an Ed-Tech startup has expanded its footprint in Ghana with the establishment of Tinkering or innovation labs in over 50 schools. The labs aim to provide training in robotics, experiential learning, STEM education, IoT, and artificial intelligence to more than 3000 students.

In its new venture in Ghana, STEMROBO's engineers from India will be providing training to the local engineers and teachers, both physically and virtually. According to the company, the establishment of innovative labs would provide the students the opportunities to develop computational and design thinking abilities, and a space to experiment, learn, develop and conceptualise different scientific ideas.

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Exclusive Interview with Anurag Gupta, Co-Founder of STEMROBO Technologies

Market Trends
February 24, 2022 . 6 mins read

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Education Technology Company Aimed To Instil Coding In Urban And Rural Sector

Susmita Modak
Hans News Service | 17 May 2022 12:00 PM IST

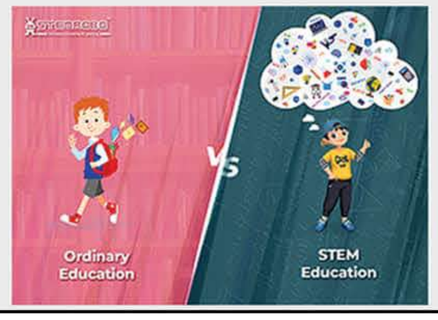
Education Technology Company Aimed To Instil Coding In Urban And Rural Sectora

HIGHLIGHTS

- STEMROBO is an educational technology company that has been aiming to promote and instil coding in both urban and rural areas of the country.
- STEMROBO, founded in 2015 by Anurag Gupta and Rajeev Tiwari, has established innovation laboratories in over 1800 schools across India.

STEMROBO is an educational technology company that has been aiming to promote and instil coding in both urban and rural areas of the country.

STEMROBO, founded in 2015 by Anurag Gupta and Rajeev Tiwari, has established innovation laboratories in over 1800 schools across India. Furthermore, they have established over ten robotics laboratories in India and work with over ten lakh kids and teachers to foster and promote innovation and creativity in students from kindergarten to grade twelve.



How remote proctoring is working for institutes

Colleges and platforms offering remote proctoring services are working towards developing fail-safe systems for online exams

Sonal.Srivastava
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Remote proctored exams have helped students take tests without compromising their health during the pandemic. However, given the technical limitations in several parts of the country, it has given rise to several challenges that include poor internet connectivity, limited smartphones and laptops, heightened anxiety on being monitored continuously and AI-related bias in identifying students. Remote proctoring is still at a nascent stage in India; institutes and proctored exam platforms are working towards evolving fail-safe systems for effective remote proctoring in the country.

"Some of the most common challenges are: Internet bandwidth and connectivity, lack of accessibility of devices (mobiles, computers, webcams), inability to understand the use of devices and technology, and the reluctance of stakeholders (students, college administrators)," says Siddhartha Gupta, CEO, Mercer Mettl.

According to Mercer Mettl State online Examinations Report 2021, 49% of respondents say that familiarity with processes is a challenge, while 45% say that access to devices is difficult, and 34% opine that stakeholders are reluctant in adopting the online exams.

Institutions including IIM-B, IIM-L, IIM-C, The Washington Center, Cambridge Assessments, Christ University, AIMA, IIT-M, Concord college, XLRI, and NMIMS have been successfully conducting online proctored exams.

Hotspots and power backups

Sanjay Patro, director of examinations, SP Jain School of Global Management, says, "To circumvent problems faced during online exams, our students are advised to have adequate backup measures such as mobile hotspots and power backup to deal with electricity and internet failures."

Abhay Chebbi, pro-chancellor, Alliance University, Bengaluru, points out that one of the biggest challenges during remote proctoring is AI-related bias in facial recognition often based on ethnicity, and skin colour.

Since remote proctoring is evolving in India, the government has initiated various schemes to boost internet connectivity. "National Broadband Mission plans to provide broadband access to all villages by 2022. This will help students to undertake online examinations seamlessly by easing out the roadblocks during proctoring. In addition, the National Institute of Open Schooling (NIOS) is set to become India's first education board to offer board examinations online and will assess students through remote proctoring," says Milind Dalvi, dean, MBA programs, Times Professional Learning, emphasising on greater usage of human and Artificial Intelligence to mitigate privacy concerns during proctoring.

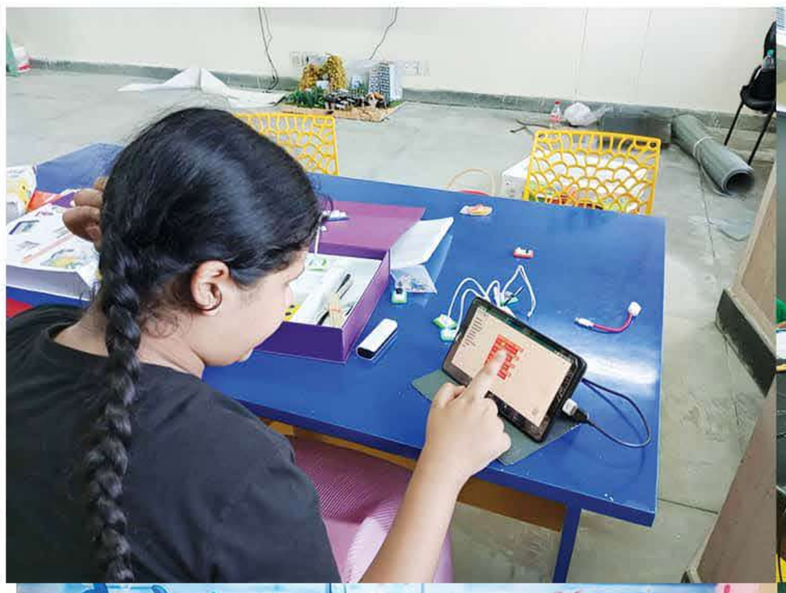
Privacy concerns

Proctoring requires the audio and video feed of the candidate giving examination to be recorded and invigilated by AI as well as human proctors, "The sanctity, credibility, and integrity of the examination processes are effectively maintained. All such metrics are used to generate the credibility index of a candidate. Additionally, professors and teachers can check the recordings post the examinations or check the generated detailed credibility reports and dashboards," says Gupta, explaining that the available remote proctoring tools in the market are hosted on secure cloud computing environments. "Data flowing through the systems are encrypted in transit. From time to time, system vulnerability and penetration audits are done to enhance the security and safety of client and stakeholder data," he adds.

Exam integrity

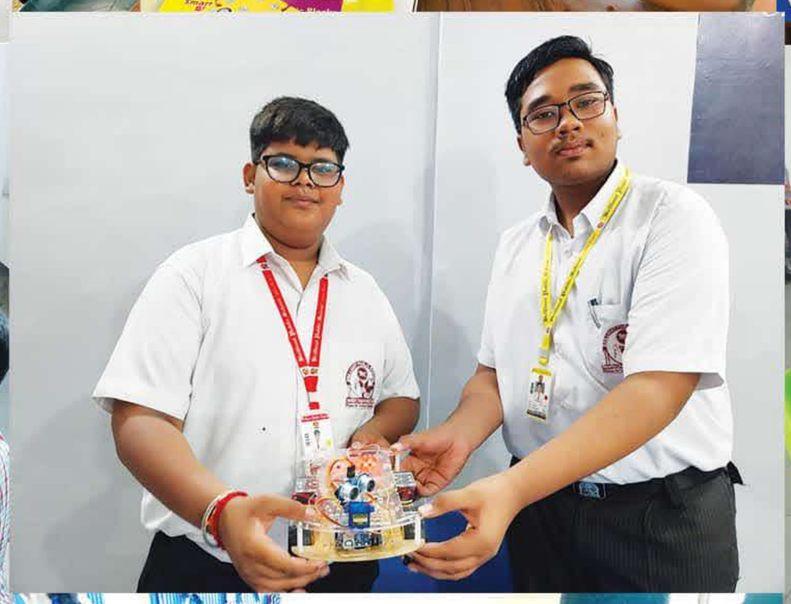
Integrity issue is the biggest challenge as authorities are coming across instances where a different candidate takes the exam or someone might sit in front of examinees, away from the camera, to help them cheat. "There is no fixed standard for proctoring available yet. Some proctoring tools use face recognition at the start of the exam and take a few random shots during the exam; some add screenshots of the window, and only some go for video proctoring with live screenshots. Students need to be educated prior to the exams about various systems," says Saket Saurabh, head, Software and Cloud Solutions, STEMROBO Technologies.

STEMROBO IN ACTION














"TALENT WINS GAMES, BUT TEAMWORK AND INTELLIGENCE WIN CHAMPIONSHIPS"

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