Inventant
Education
Present Meets Future

AI & ROBOTICS
INNOVATION LABS

An ecosystem to foster Learning, Creativity, and Innovation in Coding, Artificial Intelligence, Machine Learning & Robotics.

Aligned with
CBSE/ICSE
Skill Subjects and NEP 2020

Redefining *Education* through
STEM
SCIENCE • TECHNOLOGY • ENGINEERING • MATHEMATICS

STEMORG
ACCREDITED™
EDUCATIONAL EXPERIENCE

INITIATIVE BY
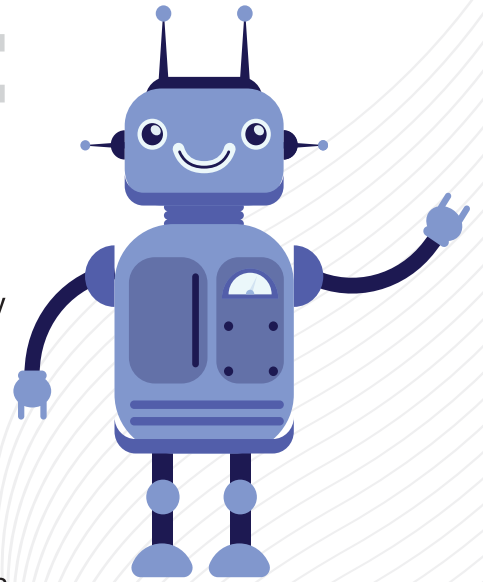**IIT**
KANPUR
ALUMNI

About Inventant Education

Welcome to the world of Inventant Education, a pioneering publishing company that stands at the forefront of STEM Education.

Founded with a passion for igniting curiosity and fostering innovative thinking, Inventant Education has emerged as a beacon of educational transformation.

Rooted in the belief that the future belongs to those who are adept at Science, Technology, Engineering, and Mathematics (STEM), this dynamic publishing company has made it its mission to empower students, educators, and schools with cutting-edge resources.

Vision

Inventant is committed to fostering an environment where students can thrive by leveraging the latest technological advancements and high-quality educational content.

Aim

Our aim is to bridge the gap between traditional education methods and modern digital tools, preparing students for the future with a robust, well-rounded education.

Inventant AI & Robotics Innovation Labs

AI & Robotics Innovation Labs for schools provide the perfect ecosystem & platform for students to develop the necessary technical knowledge to become future-ready. The platform is designed to help students gain an in-depth understanding of Coding, Artificial Intelligence, and Robotics through hands-on experiments & learning by doing approach. With the help of our cutting-edge technology, students can explore, experiment, and build projects of their own, all while developing their critical thinking and problem-solving skills.

What's Included

- </> Coding
- Artificial Intelligence
- Robotics
- Machine Learning

AI & Robotics Innovation Labs Focuses On

- Problem Solving
- Critical Thinking
- Creativity & Innovation
- Collaboration and Teamwork
- Core Technical Skills
- Adaptability & Resilience

Innovation Labs Eco System

World Class Hardware Kits (Quarky) & Interactive Software (Pictoblox)

quarky

Structured Curriculum Designed By IIT Kanpur Alumni, Aligned With NEP 2020 Along With CBSE/ICSE Framework

INITIATIVE BY
IIT KANPUR
ALUMNI

Inclusive Activity Books

Offerings Under AI & Robotics Innovation Labs

LMS (Learning Management System) for the Students & Teachers

STEM.ORG Certifications to All the Students & Teachers for Completing the Course

STEM
ACCREDITED
EDUCATIONAL EXPERIENCE

Comprehensive Training Program & Weekly Online Doubt Session

CODEAVOUR 5.0
INTERNATIONAL

Opportunity to Participate in National & International Events (Codeavour)

quarky
Overview:

A fun learning, companion making learning, engaging through AI & Robotics. Teaches industry-standard concepts like ML, Face, Object & Speech Recognition.
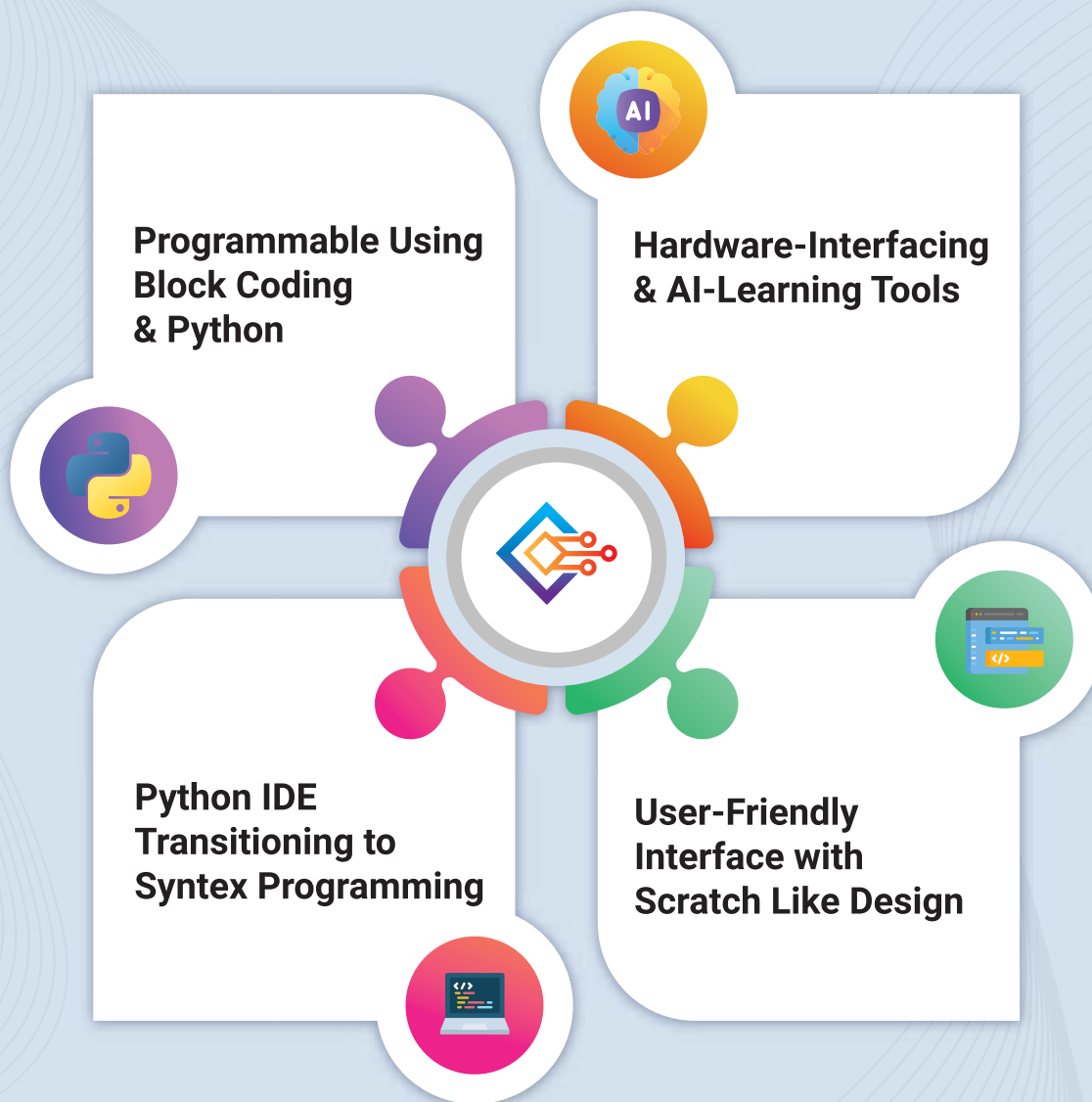
Features:
- **One Kit; Infinite Creation:** Hundreds of interactive projects.
- **Just Plug and Start Playing:** Easy connection of sensors, motors, and servos.
- **Programmable with Smartphone & Tab:** Code and control projects anytime, anywhere.

PictoBlox - AI Software Buddy

A graphical programming application for Learning Coding, AI, ML & Robotics. Available across all platforms, providing a project-based learning experience.

Programmable Using
Block Coding
& Python

Hardware-Interfacing
& AI-Learning Tools

Python IDE
Transitioning to
Syntex Programming

User-Friendly
Interface with
Scratch Like Design

Programmable Using
Scratch & Python

Supports

Lab Packages

Classroom Bundle

- 12 AI & Robotics Kit
- Consumables
- Lab Decoration
- Curriculum for Classes 3-12
- PictoBlox Licensing
- Aligned with CBSE Skill Subjects
- Teacher Training - 2 Days
- 200 Complimentary Books

Genius Lab

Most Popular

- 18 AI & Robotics Kit
- DIY Kits
- Consumables
- Lab Decoration
- Curriculum for Classes 3-12
- PictoBlox Licensing
- Aligned with CBSE Skill Subjects
- Annual Innovation Festival & International Competition
- Teacher Training - 3 Days
- 400 Complimentary Books

STAR Lab

- 30 AI & Robotics Kit
- DIY Kits
- Consumables
- Lab Decoration
- Curriculum for Classes 3-12
- PictoBlox Licensing
- Aligned with CBSE Skill Subjects
- International Competition
- Teacher Training - 5 Days
- 600 Complimentary Books

Prime

Most Popular

- 30 AI & Robotics Kit
- 10 Arduino
- DIY Kits
- Consumables
- Lab Decoration
- Curriculum for Classes 3-12
- PictoBlox Licensing
- Aligned with ICSE Skill Subjects
- Annual Innovation Festival & International Competition
- Teacher Training - 5 Days

Basic

- 10 AI & Robotics Kit
- 10 Arduino
- Consumables
- Lab Decoration
- Curriculum for Classes 3-12
- PictoBlox Licensing
- Aligned with ICSE Skill Subjects
- Teacher Training - 2 Days

Curriculum Aligned with CBSE/ICSE

Preparatory (Class 3-5)
Play, Discovery, and
Activity-Based Learning

Concepts:
Graphical Programming,
AI and ML Activities,
Physical Computing,
Robotics

Intermediate (Class 6-8)
Experiential Learning Aligned with
Coding and AI Skill Subjects

Concepts:
Coding, AI,
Physical Computing,
Robotics,
Tinkering

Advanced (Class 9-12)
Coding, AI, and Robotics with
Python Aligned with AI Skill Subjects

Concepts:
Python Basics,
AI, Physical Computing,
Robotics,
Tinkering

Features

Modular Content   Hands-On Learning   Assignment & Quizzes   Teaching Resources

Implementation Plan

- Lab Setup
- Teacher Training & Curriculum Inclusion
- Annual Innovation Festival & Competition
- Doubt Session & Year-long Support

Infrastructure

- **No additional space/infrastructure is required.**
- If you have an existing computer lab of 500 sq. ft. or higher, the lab will be an upgradation of the existing lab.
- Only additional requirement in this case will be the storage racks for the lab equipment.

Manpower

- **No additional manpower is required.**
- We upskill the existing computer teachers to cover the curriculum along with year-long handholding.

Special Period

- **No additional period is required in your timetable.**
- If school has 2 or more periods for computer education, 1 period can be dedicated to the lab.

IT Requirement

- **Uses the existing IT Infra in the Computer Labs.**
- 1 x Projector and Computer for Teacher
- 1 x Laptop/Tablet per group (Total 12-15 Devices)
- Min. System Specs: Windows 7/Linux/MacOS with 4 GB RAM with WEBCAM & MIC
- Internet Access

Benefits of AI & Robotics Innovation Labs

For Students:
- Experiential Learning
- Fostering Creativity and Innovation
- Enhanced Collaboration and Teamwork
- Future-Ready Skills Development
- Interdisciplinary Learning
- Advanced Problem-Solving Capabilities
- Participation in Global Competitions (Codeavour)

For Teachers:
- Professional Growth Opportunities
- Innovative Teaching Methodologies
- International Competitions (Codeavour)
- Professional Networking and Collaboration Opportunities
- Real-Time Progress Monitoring
- Cutting-Edge Educational Resources
- Advanced Data Analytics for Student Performance

PROGRAM PERKS

For Schools:
- Adoption of Innovative Teaching Techniques
- Development of AI & Robotics Curriculum
- Institutional Reputation and Competitiveness
- Upgraded Educational Infrastructure
- Preparation for Next-Generation Workforce
- Positive Impact on Faculty Development
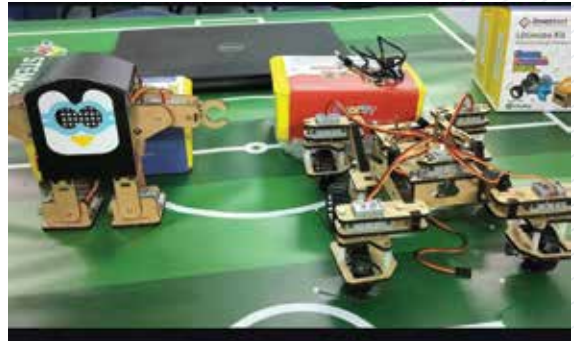- Participation in Annual Innovation Festivals

For Parents:
- Personalized Learning Pathways
- Advanced Technical Proficiency
- Enhanced Critical Thinking Skills
- Increased Adaptability and Flexibility
- Early Exposure to Emerging Technologies
- Improved Digital Literacy
- Strengthened STEM Foundations

Glimpses

Partner Schools

New Happy Public School

Trinity School

Kamla Devi Public School

ST. Joseph's Convent

A.D. DAGA Public School

Jain Public School Rewari

Holy Home Serampore (W.B.)

R.K. International School

Floreto World Class ICSE School

Christ Convent School

Bal Bharti Vidya Peeth

St. Patrick's Academy, Bengaluru

Central Modern School

Ganga Devi Public School

Sumati Academy
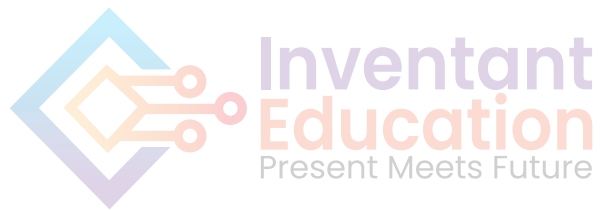
Minerva International

Maria's International School

St. John's Sr. Sec. School

Sahibzada Ajit Singh ji Public School

& many more...

Inventant Education
Present Meets Future

2000+
Partner Schools

100000+
Students Engaged

Associated with **Inventant** **Education**

Inventant Education
Present Meets Future

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SCAN QR CODE
For Personalized Demo
at Your School/Callback

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