STEMSPACE

IGNITING MINDS THROUGH STEM

AI and Robotics Program for Schools

A holistic ecosystem fostering learning, creativity, and innovation through ICT, robotics, AR-VR, AI, and ML for 21st-century skills.









Visit Us

Aligned with CBSE/ICSE Skill Subjects and NEP 2020

All-Inclusive ICT, AI, and Robotics Program

Our ICT, Coding, AI and Robotics program enables schools and educational institutions to engage in interactive learning. It helps kids aged 6 and above to understand the classroom curriculum of information and communication technology, complex industry-standard AI, building immersive learning experience with AR-VR and robotics concepts in a playful manner through exciting application-based DIY projects.

- Structured Curriculum with Activity Books
- Coding and AI Platform: PictoBlox
- Hands-On AI and Robotics Kits: Quarky
- Teacher Development Program
- Learning and Assessment System
- International Competitions and Innovation Festival



Technologies in Focus to Build 21st Century Skill Sets



Coding - Block and Python



Artificial Intelligence



Robotics and Electronics



Self-Driving Car Technology



Experiential Learning through 3D and XR Studio



Robot Localization and Automation

Curriculum Aligned with CBSE/ICSE

STEMpedia provides a year-long curriculum for CBSE and ICSE classes 1-12. These courses are divided into 4 stages aligned with NEP 2020 **Section 4.5** and **Section 23.**



Pre-Primary
Class 1-2

- Learning Computer Basics
- Creative Drawing Tools
- Algorithmic Literacy
- Intro to AI and Robotics



Primary
Class 3-5

- Computer Fundamentals
- Game Design
- AI and ML Activities
- Hands-On Robotics



Middle
Class 6-8

- Block and Python Coding
- Artificial Intelligence
- Robotics and Tinkering
- Computational Thinking



Secondary
Class 9-12

- Advanced Coding, AI and ML
- Robotics with Python
- Computer Vision and NLP
- Data Science

Technologies in Focus to Build 21st Century Skill Sets



Student Learning Coding with PictoBlox



Robotics Education for Students in AI Lab, South Korea



AI Lab Setup at Kalyan International School, Pune



Hands-on Learning Session at Seth C.N. Vidyalaya, Ahmedabad

CBSE Curriculum and Practical Activity Books

Our course and practical activity books for CBSE are aligned with NEP 2020 guidelines and CBSE **Subject Code 417** and **843** fulfilling various objectives like preparing students for our an AI driven economy, experiential learning, skill development, hands-on coding, AI and robotics.



Interactive Coding, AI, and Robotics Books

Class 1 to 10

Coding, AI, and Robotics to foster creativity and innovation with **hands-on activities** and exciting real-world application-based projects. A book aligned with the **CBSE skill subjects**.

HIGHLIGHTS

- Block and Python Coding
- Robotics
- Algorithmic Literacy
- Computational Thinking
- Lab Work
- Project Work



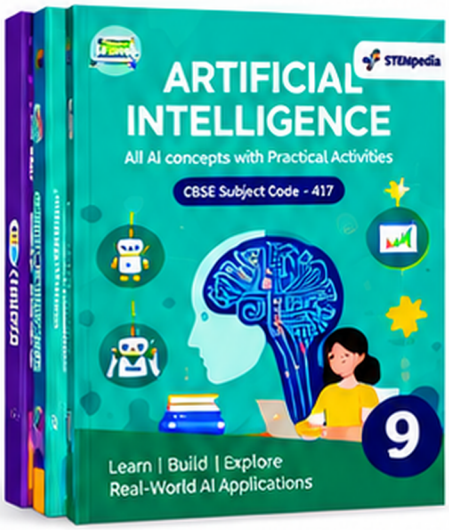
ICT, Coding, AI, and Robotics Books

Class 1 to 8

This curriculum delivers robust education in ICT, coding, AI, and robotics integrating **practical lab activities** with classroom learning for **hands-on mastery.**

HIGHLIGHTS

- Block Coding
- Python Programming
- Robotics
- Worksheet
- Lab Work
- Project Work



Artificial Intelligence Books

Class 9 and 10 **Subject Code - 417**

Artificial Intelligence textbooks and practical activities for CBSE classes **9th and 10th** aligned with **subject code 417,** covering the topics proposed in the **CBSE AI syllabus.**

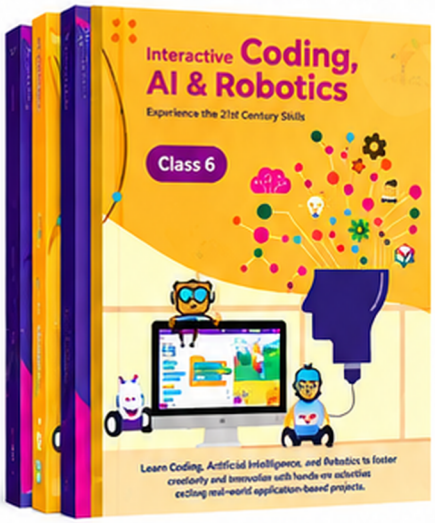
HIGHLIGHTS

- Python Programming
- Machine Learning
- Data Science
- Worksheet
- Lab Work
- Project Work

Course and Practical Activity

ICSE Curriculum and Practical Activity Books

Our course and practical activity books for ICSE are aligned with NEP 2020 guidelines, and ICSE **Subject Code 66** fulfills various objectives like developing competencies in Robotics and AI via classroom instruction, activity-based learning, application of robotics and AI.



Interactive Coding, AI, and Robotics Books

Class 1 to 10

Fostering creativity and innovation through **hands-on coding, AI, and robotics activities** with exciting, real-world projects. Aligned with the **ICSE AI syllabus.**

HIGHLIGHTS

- Block and Python Coding
- Robotics
- Algorithmic Literacy
- Computational Thinking
- Lab work
- Project Work



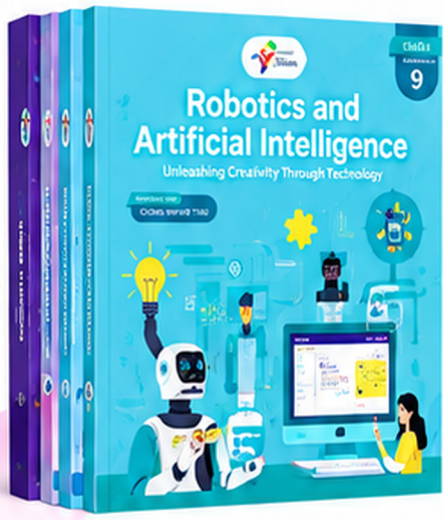
ICT, Coding, AI, and Robotics Books

Class 1 to 8

This program immerses students in **ICT, coding, AI, robotics** through **engaging activities** and hands-on labs, fostering **critical thinking** and **problem-solving skills.**

HIGHLIGHTS

- Block Coding
- Python Programming
- Robotics
- Worksheet
- Lab Work
- Project Work



Robotics and Artificial Intelligence Books

Class 9 and 10 **Subject Code - 66**

Robotics and AI textbooks and practical activity books for **ICSE classes 9th and 10th** aligned with **subject code 66,** covering the topics proposed in the **ICSE Robotics and AI Curriculum.**

HIGHLIGHTS

- Python Programming
- Machine Learning
- Robotics
- Worksheet
- Lab Work
- Project Work

Books Authored by IIT Alumni

360° Holistic Teacher Upskilling Program



STEMpedia's comprehensive teacher training program empowers educators with hands-on experience in AI, coding, robotics, electronics, drone technology, and 3D-printing, equipping them with the tools to integrate these essential 21st-century skills into their classroom teaching.

Onsite 2-5 Days Teacher Training



International Educator Bootcamp



Skill-Based Workshops/Webinars



Key Features of Teacher Training

- Expert-Led Sessions
- Hands-on Learning and Skill Development

Value for Educators

- Enhanced Teaching Skills
- Career Advancement Opportunities

Teacher Training Outcomes

- Enhanced Classroom Engagement
- Effective Curriculum Mastery







Get a Transformative Learning Experience

- Access to AI, coding and robotics teaching resources
- Interact with global community of passionate and visionary educators
- Training on coding, AI, ML, XR, robotics and electronics
- Badges & Certificates accredited by ARTPARK, STEMpedia and STEM.org

Quarky - The Brain of AI Lab

Quarky is a super fun AI companion that helps in learning new technologies like artificial intelligence and robotics in an engaging and enjoyable way. Kids can create a variety of projects like self-driving car, pick and place robot, walking robots, IoT house and gardening system and much more using Quarky and its DIY Add-on kits.





Learn Industry-Standard Concepts

Understand widely used AI concepts such as ML, face, object & speech recognition, etc.



One Kit - Infinite Creations

Make hundreds of interactive real-world applications-based projects.



DIY Kits - Plug and Play

Create advanced projects like Quadruped, Humanoid, IoT House etc. using add-on kits.



Accessible Learning at Home

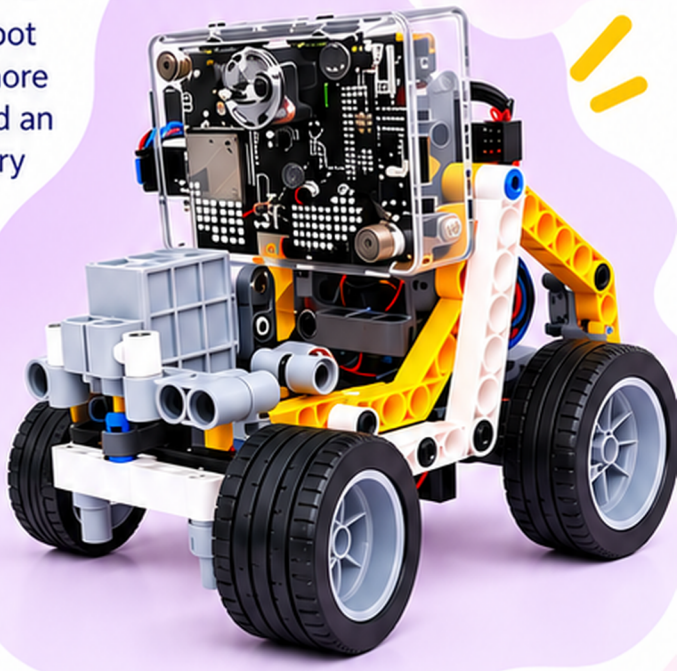
Code and control all your projects anytime, anywhere using a Smartphone or a tablet.

Quarky Intellio

Learn Build Create Innovate!

An Advanced AI & Robotics Companion for Young Innovators

Quarky Intellio is a powerful, easy-to-use AI-powered robot that helps students explore coding, robotics, AI, IoT and more through fun, hands-on projects. With motors, sensors, and an inbuilt AI vision camera, Quarky Intellio makes 21st-century learning interactive, engaging and future-ready.



- Artificial Intelligence
- Block & Python Coding
- Robotics & Automation
- Vision AI (Camera)
- Multiple Sensors
- IoT Projects
- Creative DIY Projects
- Curriculum Aligned

Build Exciting Projects



Self-Driving Car



Pick & Place Robot



Walking Robots



IoT House & Gardening System

Learning Outcomes

- Logical Thinking
- Problem Solving
- Creativity & Innovation
- 21st Century Skills

Perfect for

- Middle & High School Students
- STEM Clubs & Innovation Labs
- Competitions & Advanced Projects

Curriculum Support

- Project Guides & Lesson Plans
- Activity Sheets & Worksheets
- Video Tutorials & Teacher Resources
- Aligned with NEP & STEM Standards

Wizbot Neo

Kindergarten

A Hands-on STEM Learning Kit for Early Learners

Wizbot Neo is a fun and interactive coding robot designed especially for young learners in Kindergarten. With screen-free coding, colourful cards and activity books, it helps children develop logical thinking, problem-solving and creativity through play.



Key Features

Screen-Free Coding
Learn coding without screens – simple, fun and safe.

Hands-on Learning
Build, explore and learn through real-world play.

Builds Logical Thinking
Develop problem-solving and critical thinking skills.

Fun & Engaging Activities
Colourful cards, activity books and exciting challenges.

Learn
Code
Create
Explore

Meet Wizbot Neo



- Colourful LED / कलरफुल LED
- Buzzer / बज़ार
- Action Button / एक्शन बटन
- Interrupt Button / इंटरप्ट बटन
- Repeat Button / रिपीट बटन
- Pen Holder / पेन होल्डर
- Colourful LED / कलरफुल LED
- Go Button / गो बटन
- Clear Button / क्लियर बटन
- Grid Mode / ग्रिड मोड
- Draw Mode / ड्रॉ मोड
- Direction Buttons / डायरेक्शन बटन
  - Forward / आगे
  - Left / बाएँ
  - Reverse / पीछे
  - Right / दाएँ
- 3 - Way Power Switch / 3 - वे पावर स्विच
  - Power
  - Button — Screen-free Coding / स्क्रीन-फ्री कोडिंग
  - Picto — Graphical Coding / ग्राफिकल कोडिंग

PictoBlox - AI Software Buddy

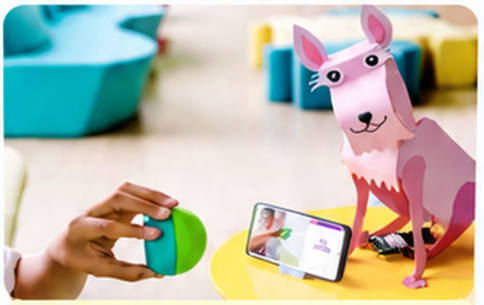
PictoBlox is a Block-based and Python coding software available across all platforms, from smartphones to laptops, that brings hardware-interfacing and AI-learning to your fingertips. It empowers students to make interactive animations and games, program actions for robots, build AI projects with ML, design 3D models in 3D and XR Studio, create projects based on IoT, and more.



Programmable Using Block Coding and Python

Supports

Exploring Cutting-Edge Technologies with PictoBlox



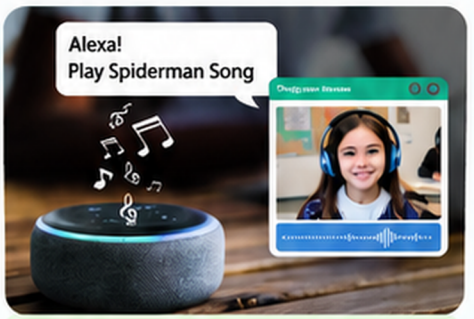
Robot Interaction



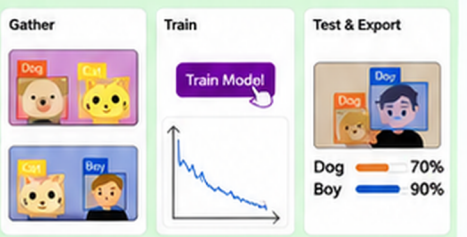
Object and Face Detection



Text Recognition and NLP



Speech Recognition



Machine Learning



Augmented and Virtual Reality

Codeavour International - The Biggest Innovation Fest for the Next-Gen

Codeavour is an international AI and coding competition that aims to inspire children to unleash their programming potential and create innovative projects. Organized by STEMpedia in collaboration with national and international government bodies and private organizations, Codeavour provides a platform for young minds to showcase their skills and passion for technology.



3,00,000+
Students Impacted

10,000+
Innovative Inventions

5,000+
Teachers Trained

2,000+
Schools Catered

250+
Partnerships Established

90+
Countries Reached









The Complete Ecosystem for Your School



AI and Robotics Lab Setup

- AI and Robotics Kits: Quarky Kits and its DIY Add-On kits, STEM kits, consumables, and lab decorative.
- Demo projects for showcase.
- Lab layout planning and setup.
- Inauguration of lab to create awareness amongst students and parents.



Teacher Training and Resources

- 2/5 days of on-site capacity building of school teachers on equipment, content, and operation processes, along with year-long hand-holding.
- Teachers will be provided with class-wise teaching material, lesson plans, activity sheets, and assessment guides.
- Participant's Perks: Certificate affiliated with STEM.org and reputed technical institutes of India for all the participating teachers.



Year-long Support and Service Plan

- 12-month warranty on equipment and extended warranty under annual maintenance.
- Regular teacher upskilling and doubt solving sessions.
- Comprehensive PictoBlox software licensing is available to all students for enhanced learning.
- Online and offline support is available for all types of queries.



Events and Competitions

- Annual Innovation Festival: A uniquely designed in-school event to showcase all projects and inventions developed by students.
- Participation in International AI, Robotics and Coding competitions like Codeavour International.

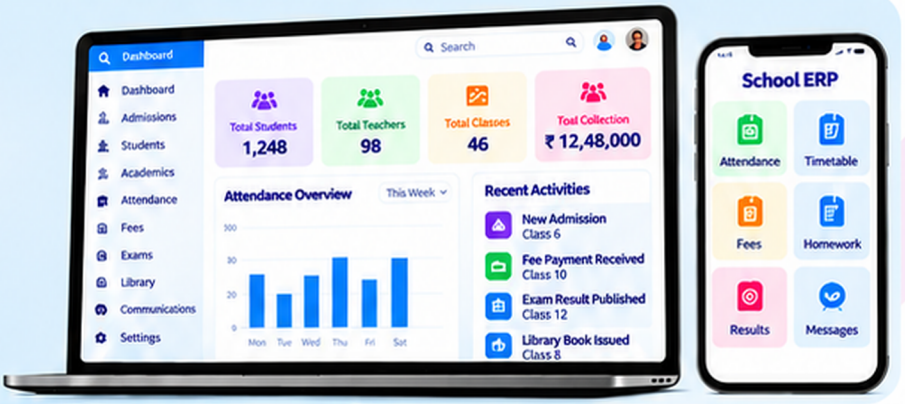
Our Education Software Products

A complete digital ecosystem to simplify management, enhance learning and improve results for schools and colleges.

Smart School & College Management System

Complete ERP to manage all academic, administrative and operational activities.

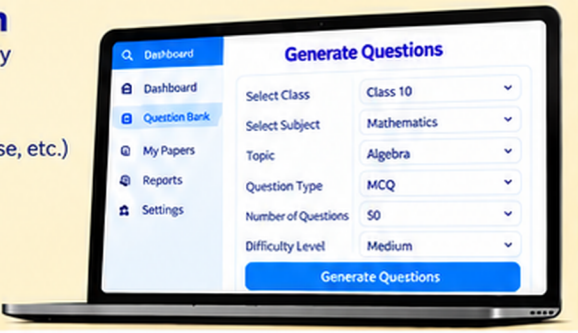
- Admissions & Student Lifecycle
- Academics, Timetable & Attendance
- Fee Management & Online Payments
- Exams & Report Cards
- Library, Hostel & Inventory
- Parent, Student & Teacher Communication
- Transport & Multi-Branch Management
- Comprehensive Reports & Analytics



Question Generation System

Create high-quality question papers instantly with advanced tools and flexibility.

- Chapter-wise and Topic-wise Question Bank
- Multiple Question Types (MCQ, Descriptive, True/False, etc.)
- Difficulty Level Tagging
- Bloom's Taxonomy Mapping
- Import from PDF / Word
- Edit, Organize and Reuse Questions
- AI-assisted Question Generation



MCQ Multiple Choice Questions

Descriptive Long Answer Questions

True / False True or False Questions

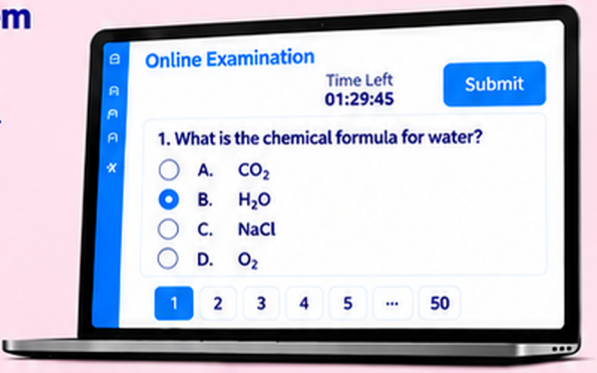
Fill in the Blanks Fill in the Blanks

AI Generate Generate using AI

Online Examination System (Online & Offline)

Conduct secure and flexible examinations with advanced monitoring and evaluation.

- Online & Offline Exam Modes
- Automatic Paper Generation
- Supports MCQ, Descriptive, True/False, OMR
- Time-based & Secure Examinations
- Proctoring & Anti-Cheating Features
- Evaluation & Result Processing
- Detailed Reports & Performance Analysis
- Student Login & Exam Access



Live Proctoring Secure Exam Environment

OMR Support Scan and Evaluate

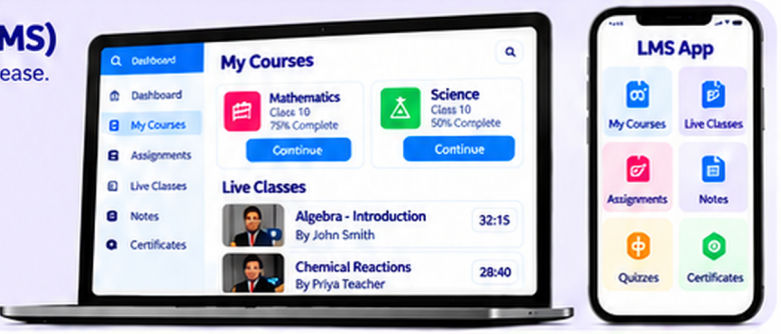
Multiple Exam Modes Online / Offline

Detailed Reports Performance Analysis

Learning Management Software (LMS)

Deliver, manage and track digital learning content with ease.

- Create & Manage Courses
- Upload Study Material (Videos, PDFs, Notes)
- Assignments, Quizzes and Live Classes
- Student Progress Tracking
- Certificates & Badges
- Discussion Forums
- Accessible on Web and Mobile



Smart Transport System

Ensure safe, efficient and real-time transport management for your institution.

- Route & Stop Management
- Live Bus Tracking with GPS
- Student Transport Details
- Driver & Attendant Management
- Parent Notifications (Boarding / Dropping)
- Transport Fee Management
- Reports & Alerts
- Real-time Location Tracking



Mobile Applications for All Stakeholders

Dedicated mobile apps to stay connected anytime, anywhere.

Student App

- Access study material
- Take online exams
- View results
- Submit assignments
- Get notifications

Exam App

- Take online/offline exams
- View exam schedule
- Access question papers
- Check results
- Secure exam environment

Teacher App

- Take attendance
- Upload marks
- Create assignments
- Conduct live classes
- Communicate with students

Owner App

- Real-time dashboard
- View key reports
- Monitor fee collection
- Manage staff & branches
- Overall institution control

Parent App

- Track child's attendance
- View exam results
- Pay fees online
- Receive notifications
- Communicate with teachers

Transport App

- Real-time bus tracking
- Route & stop details
- Student pick/drop alerts
- Driver & attendant info
- Manage transport fees

STEMSPACE

In Association with STEMpedia

About STEM Space

STEM Space is a STEM education solutions provider helping schools build future-ready learning environments through robotics, coding, artificial intelligence, IoT, science, and technology programs. We provide STEM lab setup, robotics programs, hands-on workshops, innovation activities, and technology-based learning solutions designed for schools and students. Our goal is to make practical STEM education engaging, accessible, and relevant for the next generation.

Our Renowned Partners

aws InCommunities
AIM ATAL INNOVATION MISSION
TATA class edge Inspired Schooling
Inventant Education Present Meets Future
E-DAC
HCLFoundation
ixi HONDA
AIF AMERICAN INDIA FOUNDATION
LEARNING LINKS FOUNDATION
DUCK LEARNING
एनटीपीसी NTPC
1M 1B 1 MILLION 1 BILLION Activating leaders. Empowering communities.
nasscom

Our Growing Schools Network

Elite
Chandrakantpatil Kalaburagi Knowledge is Power
Sri Channabasaveshwar Gurukul
BMWIS
DISHA ॥ सा विद्या या विमुक्तये ॥
DIAMOND Group of Institutions
Kayaka Educational Trust, Gulbarga
केंद्रीय विद्यालय संगठन
SSVM INSTITUTIONS
The Shriram Millennium School
The Kalyani School
KALOREX Shaping Glocal Learners
GEMS EDUCATION We see genius in every child
CHIREC INTERNATIONAL SCHOOL IB | CAMBRIDGE | CBSE Est. 1989
Karnataka Lingayat Education Society

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Locate Us