

eduniquē

Composite Skill STEAM Lab



USA Stem
Certified

Build Games
& Apps

Drone
Engineering

Microbit
Courses

Applied
Science

Logic
Math

Snap
Circuits

Robotics

+91 9773743007



www.stemlabsupgrade.com



Who is Edunique?

EduNique is the 1st Intelligent AI and Human blended online and offline educational platform that embraces, recognizes and harnesses the power of a child and also polish the skills to revolutionize the way children go through their educational journey, both in online and offline settings. The core philosophy behind EduNique is to provide a transformative educational experience for each child. We provide STEM Programs, Skill and Brain enhancement Clubs at school across Asia.



EduNique's approach is to offer comprehensive, tailored learning programs according to age, personality, emotional intelligence and environment. These programs are specifically designed to match the unique learning styles and challenges of each batch of student. We believe that learning should be an enjoyable and fulfilling for every child. Our mission is not only to make learning fun but also highly applicable in the future of students and effective in helping students achieve their educational goals.

We are committed to help students excel academically, develop essential life skills, foster creative thinking, enhance logical reasoning abilities, and stimulate cognitive growth. These goals are at the heart of our educational philosophy.

Edunique has been Featured In



Why EduNique ?

STEM Diploma

Scratch Programming

AR/VR

Animation

Coding

Microbit

HTML

Drone Designing

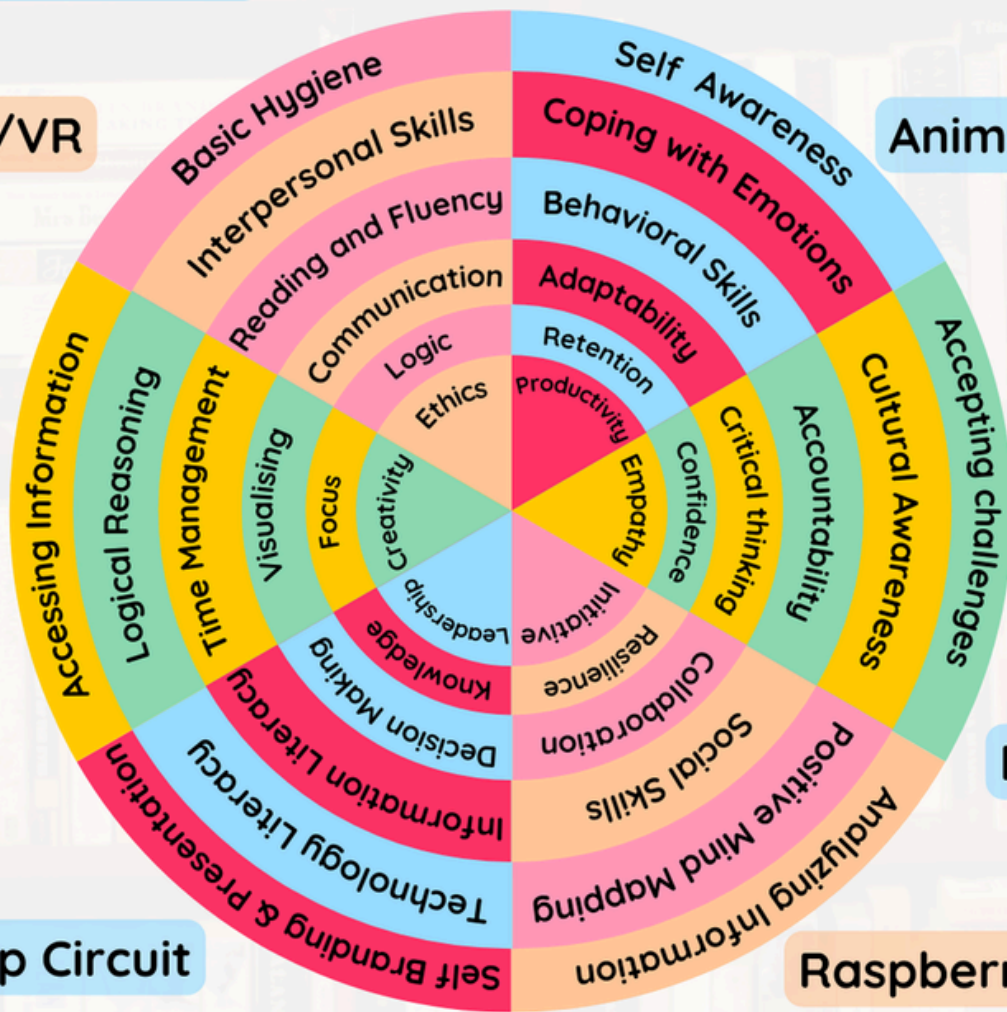
Snap Circuit

Raspberry Pi

Artificial Intelligence

Arduinio Programming

21 Skills : One course





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Concept of Composite Skill STEAM Lab?

A Composite Skill STEAM Lab is an initiative by CBSE aimed at improving students' practical learning experiences by offering hands-on training in various skills. These labs are designed to equip students with the knowledge and expertise that align with industry standards, preparing them for diverse career opportunities and enhancing their employability.

It is also leading to development of curiosity, inquisitiveness, critical thinking, problem solving, imagination, questioning & exploration skills among students for innovation, designing & creating, testing & modifying solutions to complex problems.





Why Composite Skill STEAM Learning?

The National Education Policy (NEP) 2020 places a strong emphasis on vocational and skill-based education. The objective behind this is to integrate vocational training into mainstream education, ensuring that every student has access to skill development from an early age.

Key measures under this policy include establishing skill development centres nationwide, providing opportunities for internships & apprenticeships.



Benefits of NEP's Skill Building Initiatives

The NEP emphasis on vocational and skill-based education to equip students with industry-relevant skills, enhancing their employability & career prospects. Here are few of the benefits:

- Increased employability
- Hands-on training
- Industry exposure
- Higher earning potential
- Entrepreneurial opportunities
- Improved critical thinking
- Adaptability in the job market



Classification of Skill Subjects

According to the NEP 2020 guidelines, CBSE provides a wide range of vocational courses to promote skill development. The Board has divided these courses into three categories based on their educational level:

- Middle School (Classes 6-8),
- Secondary School (Classes 9-10),
- Senior Secondary School (Classes 11-12)

At the senior secondary level, CBSE provides a variety of courses, including Introduction to Financial Markets, Banking & Insurance, Data Science, Artificial Intelligence, Electronics & Hardware etc. These courses are designed to offer students specialised knowledge & skills that are directly applicable to various professions & industries.





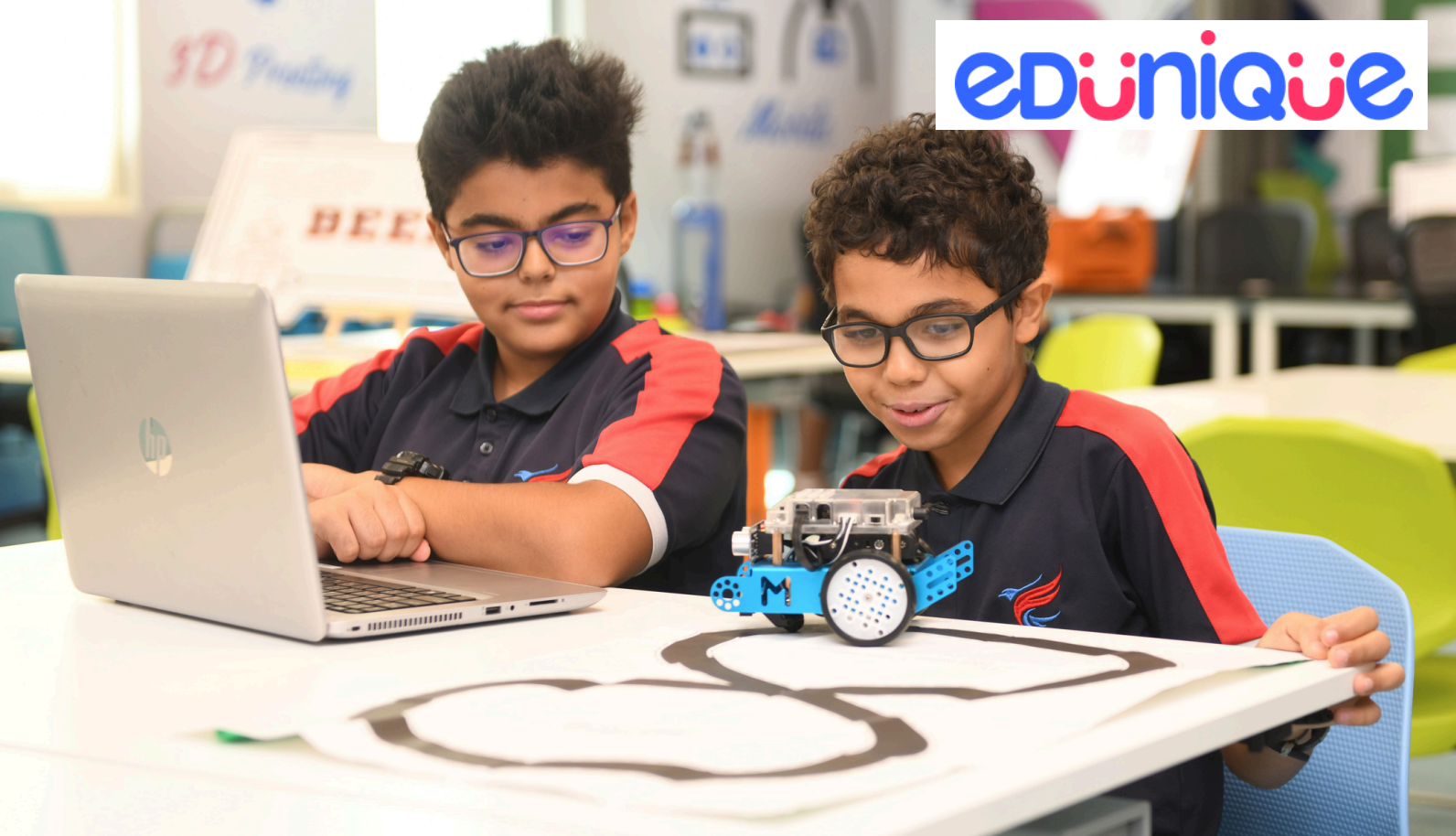
What is an EduNique Composite Skill STEAM Lab?

A team of experts has created a Certified Composite Skill STEAM program aligned to CBSE and IB curriculum that has reached 4.5 million students across 23 countries through online mode since 2020. These programs teach the practical application of school curriculum in the form of practical projects.

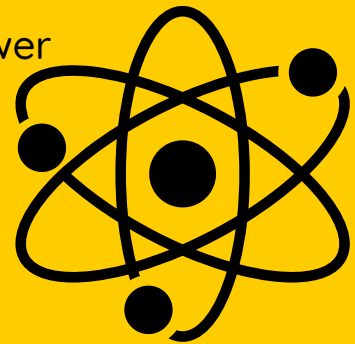
Every concept taught in IT, Engineering, Science, & Math is converted into projects and children are taught them to use those school concepts and create real world skills which helps them make a career in future across globe.

Lets take an example:- Students of your school through EduNique can design a drone or build an app and design a website from the age of 10 years. They also have discovered AI/ML multi function use in technology and other fields to enhance and develop brain.





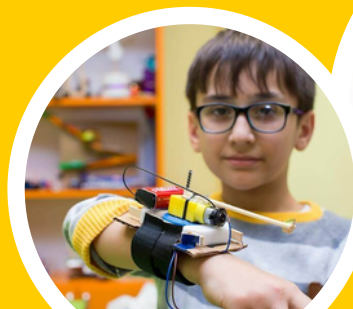
The Composite Skill STEAM/STEM courses will not only empower the educational policy across 23 countries but also enhance brain activity of child. The curriculum is 85% practical based as we take the theoretical concepts from school books which are already covered and learned by students in school.



A child can build a drone for future needs, open a business and design projects for clients across globe. They are building apps and making path breaking software's with our team of teachers and Industry mentors.

Also, Skill Development like logical reasoning, critical thinking, problem solving, personality enhancement, confidence and ability to fight competition.

These projects gives an international recognition to our country India. We aspire to go to government schools/ Private schools & give the taste of the platform to the children. Its an AI enabled platform.





Starting at ₹4,999
Technology programmes for the future leaders!
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Process of Setting up a Composite Skill STEAM Lab

- ➔ EduNique will provide the entire set up like Hardware, DIY Kits, Software and worksheets (at 50% market cost).
- ➔ The entire program can be mapped from a portal for the school, parents & students. The Composite Skill STEAM program provides 120 activities for the Practical Application of all the CBSE/IB curriculum concepts And also the application of NEP policy.
- ➔ EduNique shall provide trained staff and training with necessary expertise to run the lab throughout the year or you can outsource the lab to us.
- ➔ We conduct national & international (Inter-school/Inter-country) competitions throughout the year along with a platform for children to build and showcase their inventions through exhibitions.
- ➔ Students will be accessed monthly, quarterly and annually through quizzes, classroom activities, projects and an annual exam before the STEM Certification.



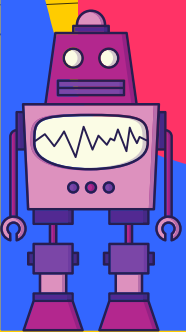
Skill Subjects Offered by CBSE

Course Name

- Retail
- Information Technology
- Security
- Automotive
- Introduction to Financial Markets
- Introduction to Toursim
- Beauty & Wellness
- Agriculture
- Food Production
- Front Office Operations
- Banking & Insurance
- Marketing & Sales
- Health Care
- Apparel
- Multimedia
- Multi Skill Foundation Course
- Artificial Intelligence
- Physical Activity Trainer
- Data Science
- Electronics & Hardware
- Foundation Skills for Sciences(Pharmaceutical & Biotechnology)
- Design thinking & Innovation

Prospective Job Roles

- Store Operations Assistant
- Domestic IT Executive/Operator
- Unarmed Security Guard
- Automotive Service Technician
- Business Correspondent
- Assistant Tour Guide
- Assistant Beauty Therapist
- Solanaceous Crop Cultivator
- Assistant Chef(Registered)
- Front Office Executive
- Field Executive
- Marketing Assistant
- General Duty Assistant
- Hand Embroider
- Texture Artist
- Multi Skill Assistant
- AI Data Analyst, Machine Learning Assistant
- Early Years Physical Activity Facilitator
- Data Analyst, Junior Data Scientist
- Field Technician - Other Home Appliances
- Lab Assistant, Research Support Specialist
- Innovation Consultant, Creative Problem Solver



LAB AND KIT STRUCTURE

No.	Entity	Qty.	Details
1.	STEM Kits	200	We will provide 200 DIY STEM kits. Topics covered - Physics, Chemistry, Biology, Electronics, Robotics etc.
2.	Lab Models	60	This includes table top models. Covering areas like Robotics, Electronics, Programming, Coding, Space and Astronomy, Physics, Electrochemistry, Solar and wind energy and much more.
3.	Posters	20	Lab structure includes infographic posters.
4.	Establishment	6 Weeks	EduNique will provide on site installation at the school.
5.	Online Support	✓	EduNique will provide free online support for one year.
6.	Training	✓	We will provide onsite training if the school is deploying their own teachers, if not, then EduNique will provide the teachers for the functioning of lab.

200 DIY ACTIVITY KITS

ACTIVITY BASED PROGRAM FOR COGNITIVE DEVELOPMENT AND EXPERIENTIAL EDUCATION

- DIY School Chemistry workshop Kit
- DIY Motorised Solar System Model Kit
- Motorised Mars Rover
- Motorised Model
- 3D Paper Model
- Solar energy Conversion Model
- Horizontal Levitation Kit
- DIY Magnetic Car Model
- DIY Periscope Kit
- Air Propelled Car
- DIY Electronic Circuit Making Kit
- Generation of Electricity
- DIY Lenses & Optics Kit
- DIY Moon Rover Kit Motorised
- Solar Powered Vehicle
- Paper Kaleidoscope Kit
- DIY Star Illuminated Box
- DIY Fun Robotics Kit
- DIY Electrical Conductivity Testing Robot
- Secret Agent's Lens Kit
- Motion & Physics of Moving Objects
- Electrochemistry Kit
- Eclipses, Full Moon, New Moon, etc

TECHNOLOGY & ENGINEERING KITS

1. AR and VR app development software: (Quantity : 15)

Platform that can help a student develop AR and VR applications

- Support both block coding and JavaScript coding
- Supports browser-based AR-VR deployment using APIs
- Custom 3D models and environment can be added
- IoT applications can be merged with AR-VR technology
- GitHub based 3d models can be directly integrated
- Bluetooth Controller based VR support
- Static VR and Dynamic VR
- Custom trigger image can be integrated for marked AR
- Must work offline for schools with limited internet connectivity



2. Hard VR headset: (Quantity : 15)

Helps students visualize the VR application that is running on their mobile phones.

VR headset where students can

- Develop the app and install it in the mobile phone
- Insert the mobile phone into the headset
- Adjust the lenses according to their eyesight for better visualization
- Quick insertion and removal of mobile device to and from the headset



3. Bluetooth remote: (Quantity : 15)

Helps students rotate a 3D model and also to move around in a virtual environment while using a VR application.

Bluetooth remote that has the following functionality

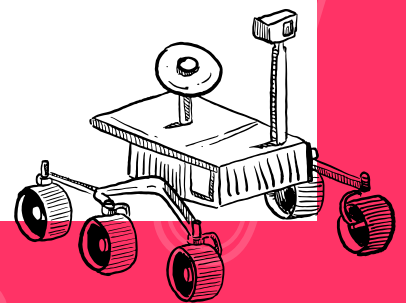
- 360 degrees joystick
- 2 pairing modes
- 4 mode buttons
- 2 configurable joysticks



4. DIY Hologram kit: (Quantity : 10)

Helps students understand the concept of holograms and how a hologram ki is build.

- Pyramid based hologram
- Base stilt structure
- Side slides for reflection prevention



5. Wired Game controller: (Quantity : 5)

Helps students fly the drone in the drone simulator.

- Used for controlling the drone in the drone simulator
- Compatible with windows PC
- Similar to a PC game controller with two joysticks, minimum of 4 control buttons and 2 menu buttons
- Controller must be compatible with the drone simulator

6. AI prototyping software: (Quantity : 15)

Helps students understand data and how a machine learns a particular dataset in order to predict certain outcomes.

Desktop software with user interface that:

- Supports a GUI interface where students can perform various experiments of Artificial Intelligence and Machine Learning
- Teach students how to identify object based on data inputs
- Teach students how to predict data
- Teach students how to train a machine to recognize images
- Understand effect of datasets, algorithm and other parameters on the prediction accuracy
- Live camera capture support for image-based predictions
- Multiple machine predictions in a single testing
- Choose different algorithms according to the dataset
- Support python programming for advanced programming of AI and ML
- AI software IS able to program a camera-based hardware robot



7. 3D Modelling Software: (Quantity : 10)

Will teach students to create, animate, simulate and render a 3D model. 3D modelling is one of the important skills needed to build AR and VR applications.

3d modeling software to create 3d models and export them in the following file formats

- Obj
- FBX



8. AI Voice controlled and Hardware robot: (Quantity : 5)

Helps students understand how a machine responds to voice commands using a voice assistant (Alexa) and how different parameters of movement can be changed just by using the voice commands with the AI robot.

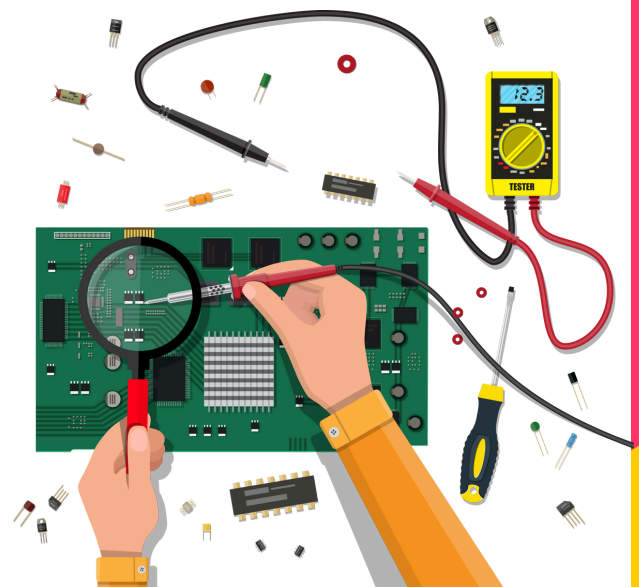
- Hardware robot compatible and programmable using a GUI based AI software
- Students can program the software using their own images and robot can recognize those images
- Includes a single-board computer that supports python programming
- Camera interfacing to capture and recognize images
- Alexa voice control interface capability
- Robotic movement control using voice AI (threshold distance, direction or movement)
- Custom image dataset based prediction and robotic movement

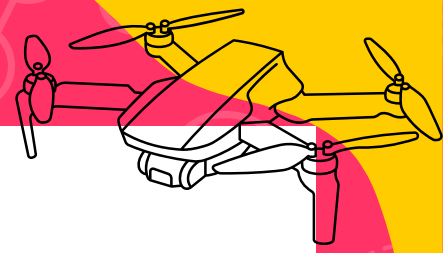


9. Set of Auxiliary Components: (Quantity : 3 Sets)

Required for replacement of components and repairs if required for the robotic kits.

- DC motor (4)
- IR sensor (2)
- Soldering gun (1)
- Resistor pack (1)
- Ceramic Capacitor kit (1)
- Electrolytic Capacitor kit (1)
- Motor driver (2)
- Wheel (4)
- Cutter (2)
- Plier (2)
- Hacksaw (2)
- Rechargeable batteries (3)





10. Drone Simulator: (Quantity : 15)

Helps students simulate drone flight and make them learn about the physics behind drone flight.

- Desktop application for simulation of drone flight
- Students must be able to control the individual motors to simulate pitch, roll and yaw
- Simulator must have a garage section where the students can assemble their drones
- Drone training and operation on drone movements
- Meeting and completing challenges on the software
- Simulator must support various learning levels clearly, where students can learn concepts of hovering, pitch, roll and yaw
- Student performance and scoring to be monitored for each learning level
- School must be able to conduct competitions for the students using the simulator

11. Basic Quadcopter Drone: (Quantity : 5)

A quadcopter drone comes with a mobile application that can be used to fly the drone.

- Primus V4 STM32F303: 72Mhz Controller
- Total 4 MOSFET drives
- 10-DOF sensor suite
- WIFI interface
- 10 Minutes flight time: 600mAH Battery
- Range: 60m
- Programmable with Cygnus IDE in C++
- Payload max 15 gm
- Total weight 85 gm
- Size 16cmX 16cm
- Lipo Battery 600 mAh





Compute kit - 2 (Quantity - 10)

The playful codable computer for kids which can be combined with variety of sensors and Technic Blocks in addition to being codable using Plode.

Age
8+



Code
with
Plode



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35+
components



Built in 9 Sensors
and 4 Outputs



11 Input and
11 Output Modules



Plug &
Play Ports



Technic Building
Block Compatible



Strong Online
Support Ecosystem



AI and IoT
Enabled



Grade 4-9 Playfully
Crafted Curriculum



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play tronix

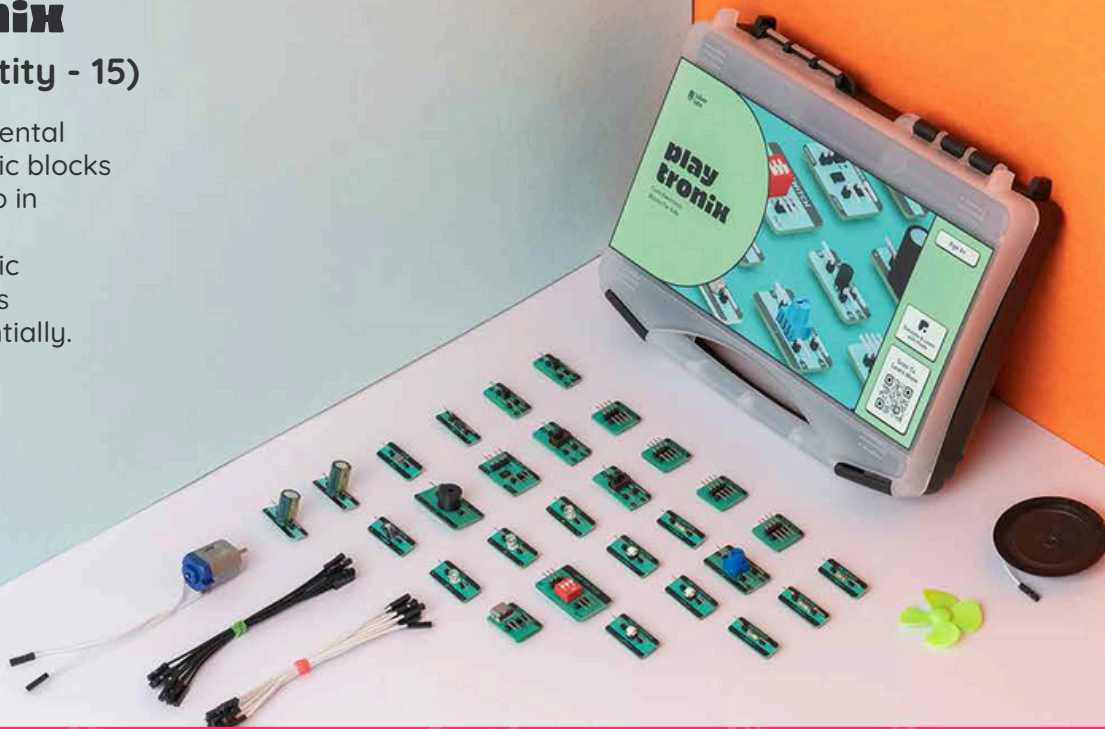
(Quantity - 15)

Fundamental electronic blocks that help in learning electronic concepts experientially.

Age
8+



Simulate
with
Plode



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50+
components



USB-C based
Power Connector



Simulation for Ease
of Construction



Grade 3-9 Elemental
Electronics Curriculum



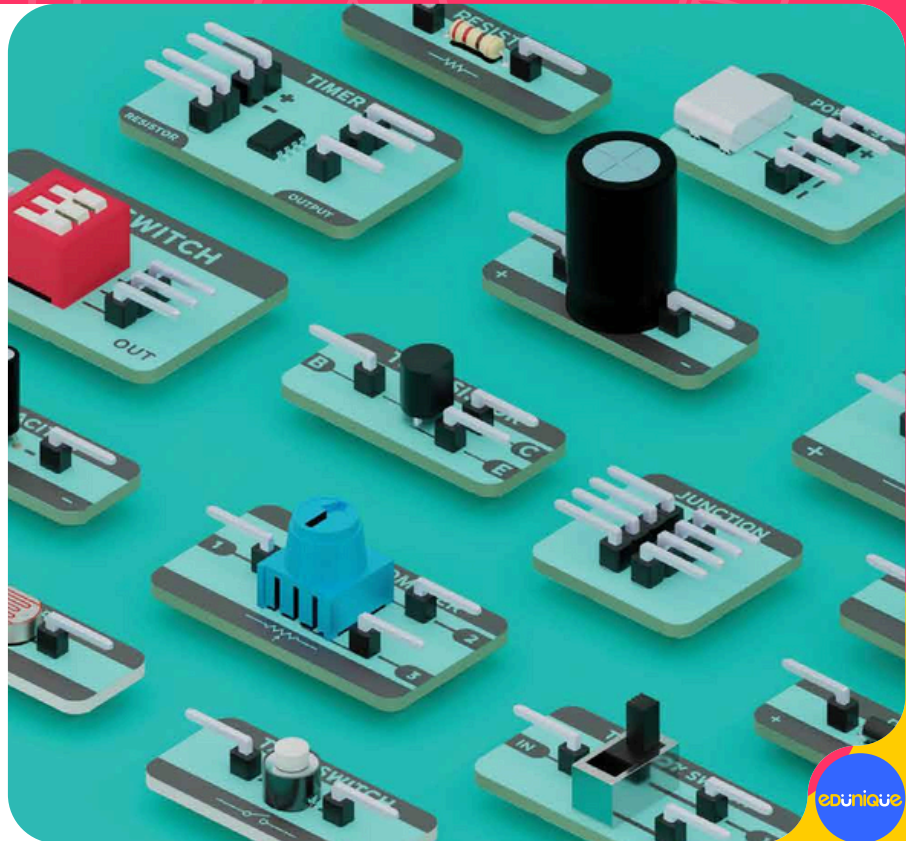
7 Input and 6
Output Modules



Open-ended
and Flexible



Inclusive of Resistors,
Diode, Transistors
and more

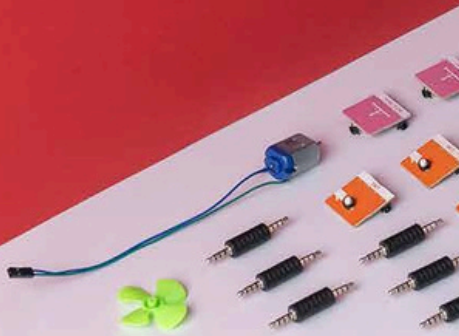


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play trons

(Quantity - 15)

Easy to use electronic building blocks designed for children over 6 years of age.



Age
6+

Simulate
with
Plode

ed:iniquie



34+
Components



9 Input and 7
Output Modules



USB-C based
Power Connector



Open-ended
and Flexible



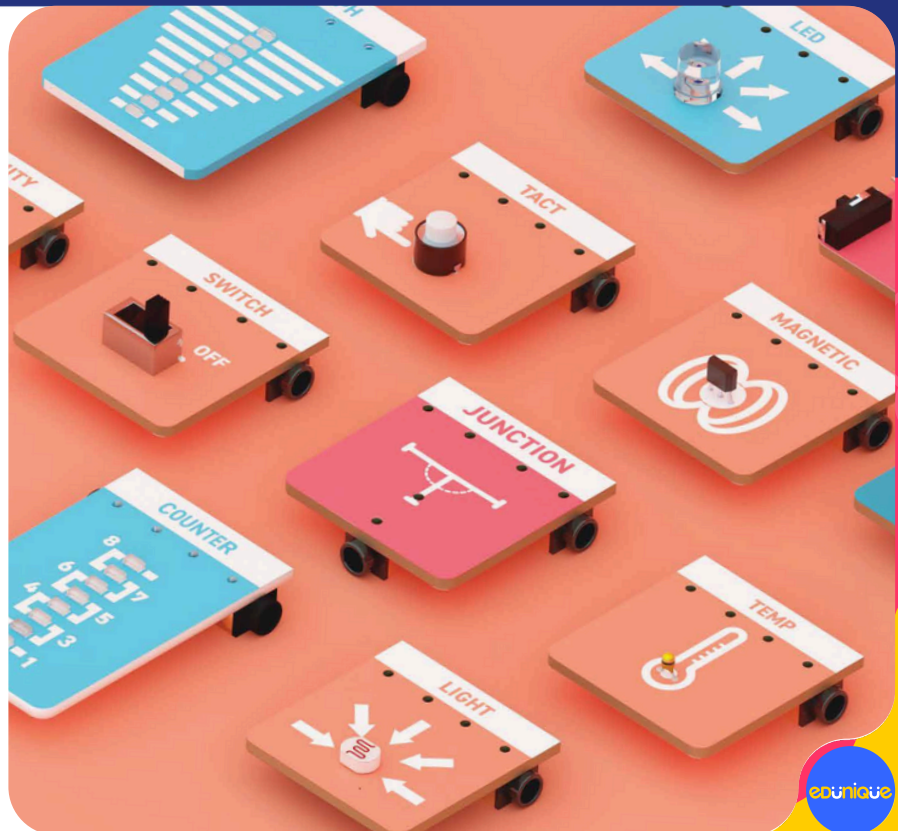
Simulation for Ease
of Construction



Inclusive of
Resistors, Diode,
Transistors and more



Grade 1-3 Playfully
Crafted Curriculum



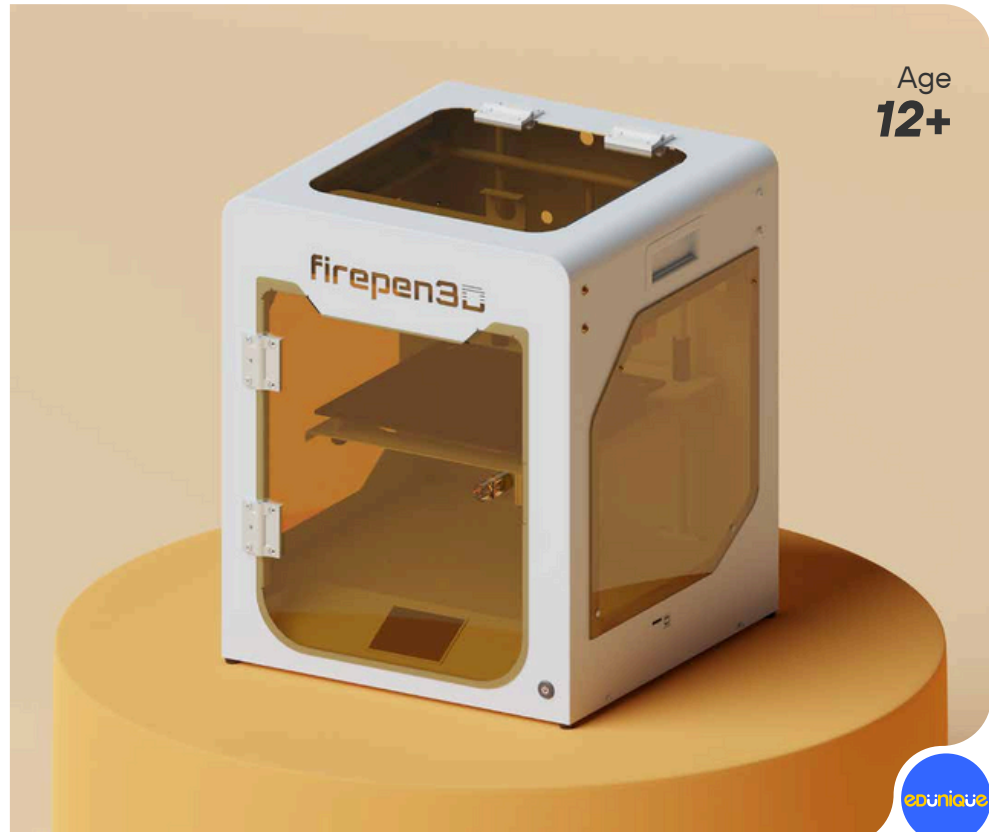
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firepen 3D

(Quantity - 1)

State of the art 3D printer which can help to prototype your ideas and turn concepts into reality.

Age
12+



Maximum Printing size:
200mm x 200mm x
190mm



Removable
Magnetic Bed



Dual
Doors



Machine size:
450mm x 350mm
x 250mm



Auto Power
On/OFF Resume



Spool Break
Detection



Display Screen:
Color with Touch
Screen



Other Customisable
Options



USA Certified STEAM Diploma Course

Creativity & Innovation

Problem Solving

Critical Thinking



JOIN NOW!

Technology Programmes

#	Technologies	Basic (7-9 years) 60 Classes	Advanced (10-12 years) 75 Classes	Masters (13-19 years) 100 Classes
1.	3D Modelling	Basic (Paint 3D/Tinkercad)	Advance (Fusion 360)	Master (Blender)
2.	3D Animation	Basic (Scratch)	Advance (Fusion 360)	Master (Blender)
3.	Augmented Reality / Virtual Reality	AR/VR (Enabl AR)	AR/VR (Enabl AR)	AR/VR (Unity)
4.	Drone	Drone Simulation (Eduvance)	Drones (Eduvance)	Drones (Eduvance)
5.	AI	AI : Basics	AI: How humans & Machine Learn & Classification	AI: Regression & Image Recognition
6.	Programming Coding	Basic (Blockly)	Advance (C++)	Master (Python)
7.	Mobile App Development	Basic (MIT)	Advance (MIT)	Advance (Android Studio)
8.	Website Development	Basic	Advance (HTML/CSS)	Master (HTML/CSS/SQL)
9.	Game Designing	Block Based Game Development	Advance Game Development	Advance (Unity)
10.	Robotics	Robotics - Manual	Line Follower Robot (HWD)	Pick & Drop Robotic Arm (HWD)
11.	Applied Science	7 Physics, Chemistry, Biology DIY Practical Projects	12 Physics, Chemistry, Biology DIY Practical Projects	20 Physics, Chemistry, Biology DIY Practical Projects

40 Projects & 20 DIY Activities

Small group of 6-7 students

Customised Content

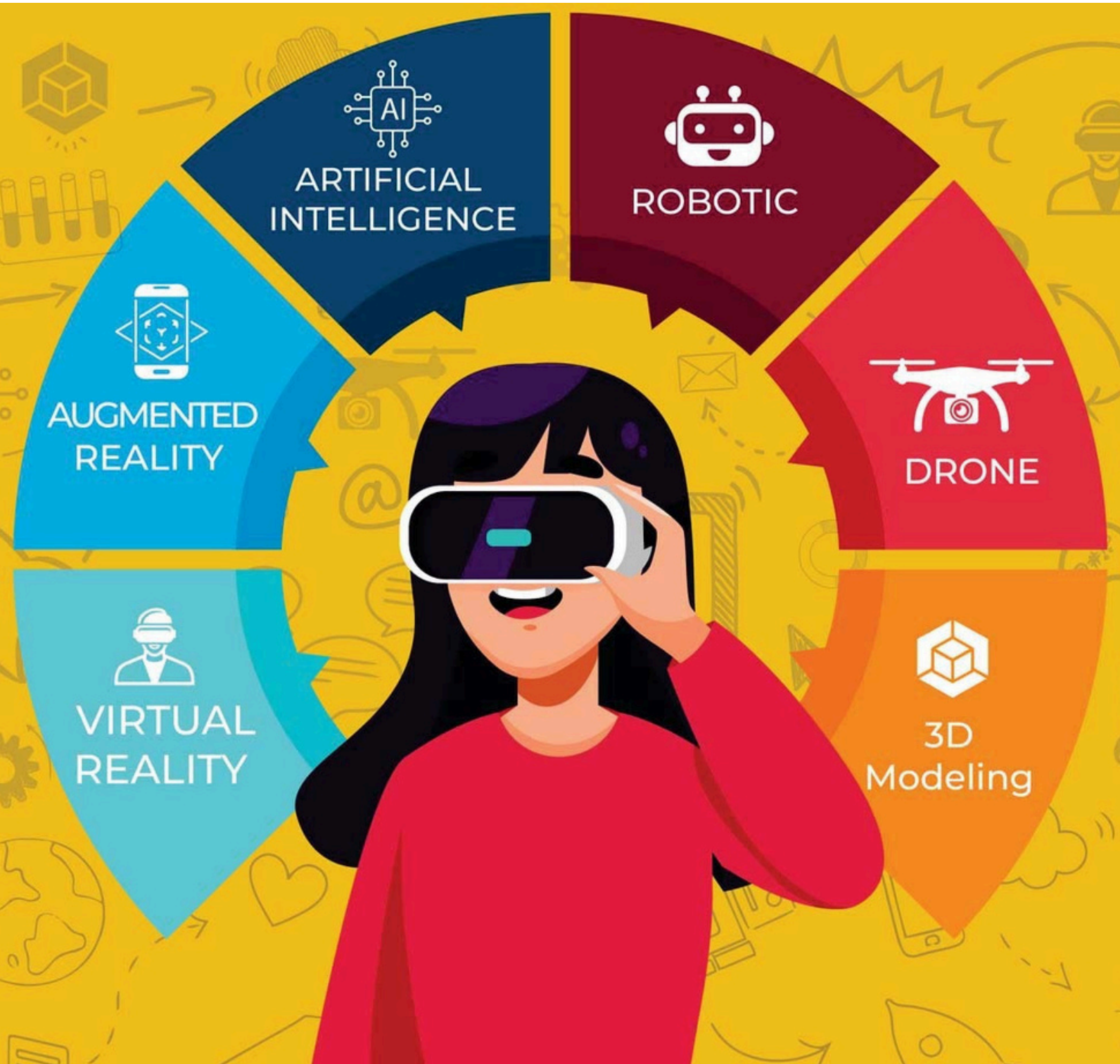
STEM Certification

Courses Starting from 1999 (800 ST)

Educational Trip to NASA or ISRO

Learning coding is not only about understanding the programming being used but also developing important computational thinking skills, which are useful for problem-solving across many disciplinary areas. In this course, students will learn basic programming skills by creating interactive animations, which is a block-based visual programming language for anyone new to coding.

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Contact Us



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