Cretile

A Complete Solution for World-Class STEM Labs!

Easy | Comprehensive | Cost-Effective

Robotics | Coding | Electronics | IoT | AI

Cretile
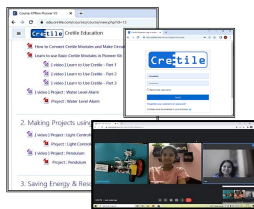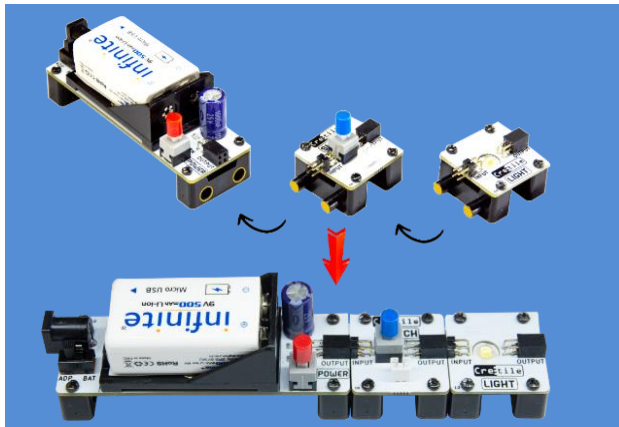
A Complete STEM Education Solution

World-Class Kit + **Curriculum in LMS** + **Teacher Training** + **Scholarship for every Student**
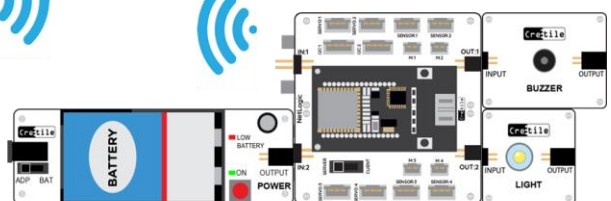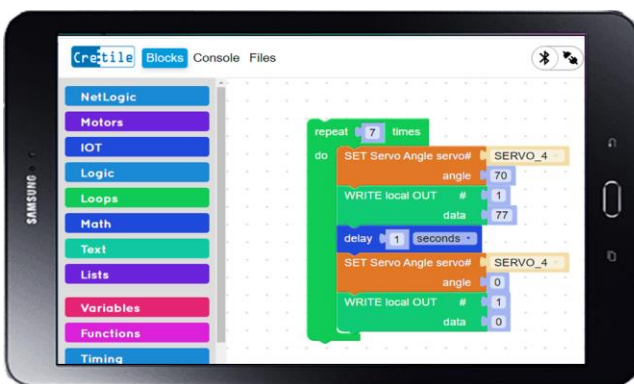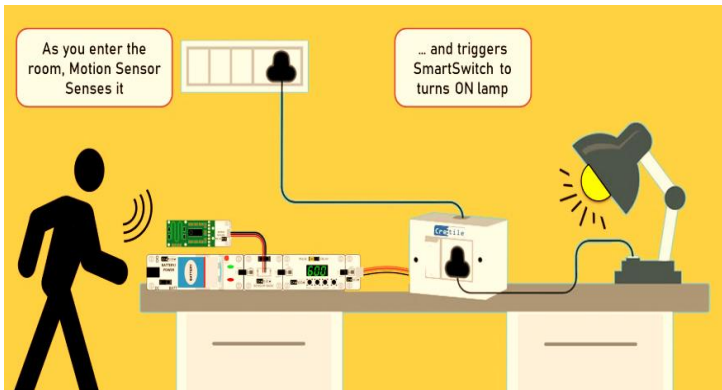

Plug-n-play Electronics

- 45 Different Blocks
- Connect any to any
- Connect in any sequence
- Connect any number

Code & Control

Teach Coding in easy and engaging way

Automation

As you enter the room, Motion Sensor Senses it

... and triggers SmartSwitch to turns ON lamp
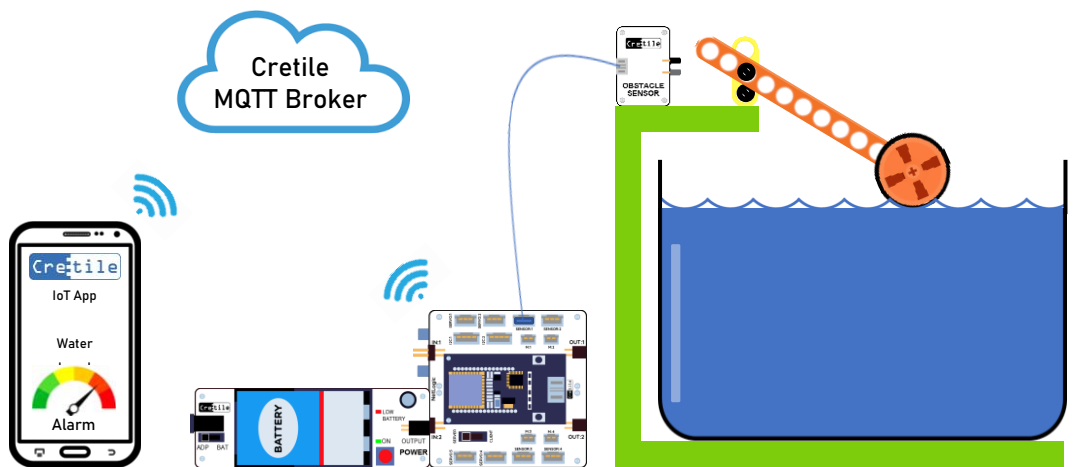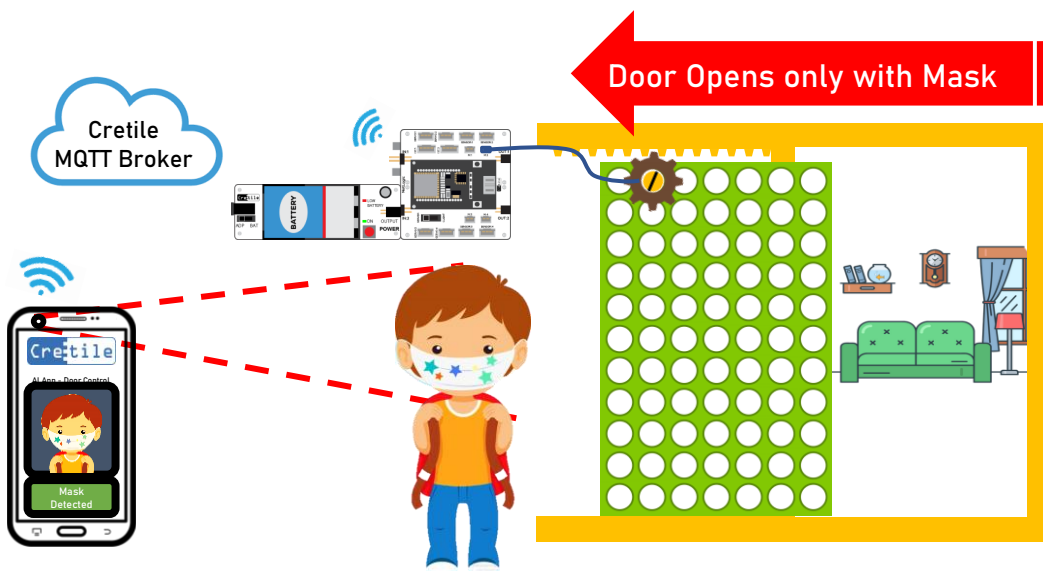
Control Home Appliances & Make Projects that have real life applications

Internet of Things (IoT)

Make IoT App with MIT App Inventor & Make IoT Projects

Cretile MQTT Broker

OBSTACLE SENSOR

IoT App

Water

Alarm

BATTERY

Artificial Intelligence (AI)

Door Opens only with Mask

Make IoT App with MIT App Inventor & Make AI Projects

Cretile MQTT Broker

BATTERY

Mask Detected

Construction Kit
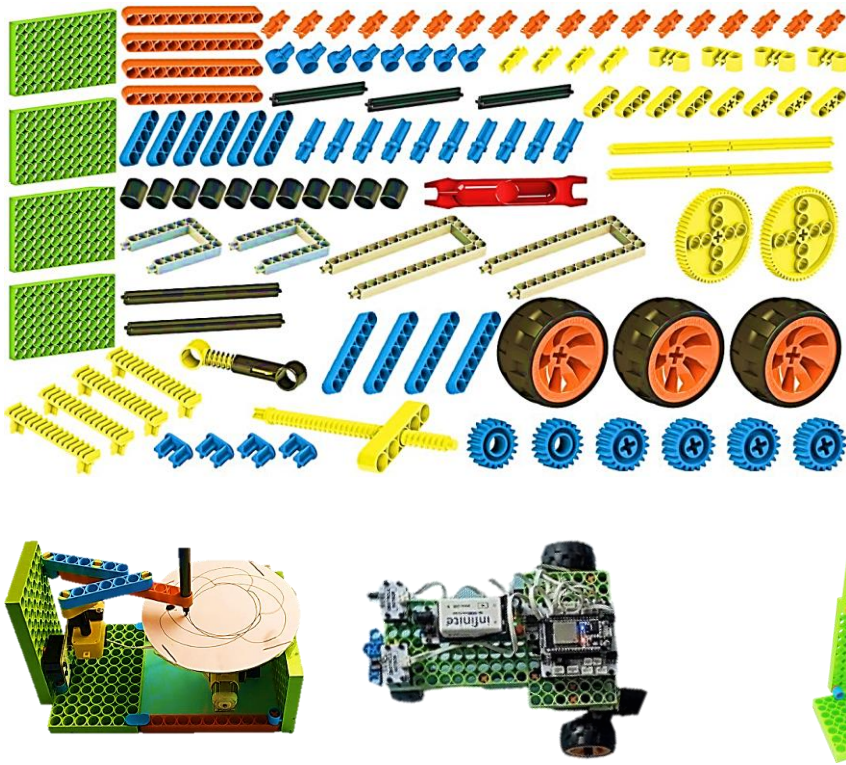
Make Interesting structures around Cretile Block for your projects

Curriculum

- 24 sessions per year for Jr & Sr Level Each
- Five year long curriculum
- Integrated Video Conf
- Covers comprehensive topics

Scholarship

- Every Student is eligible
- Answer Simple 10 MCQs in 10 min & Earn Rs. 50/-
- Earn upto Rs. 1,000/- per Month & Rs.12,000/ per Year

SALIENT FEATURES

- 21 Cretiles & Accessories
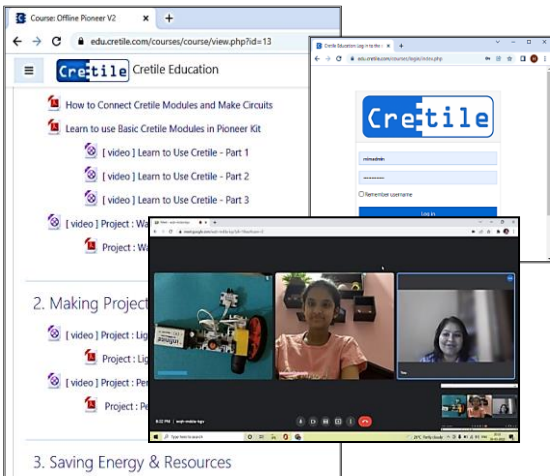- Plug–n–play blocks for students to easily learn about electronics & Robotics
- 6 Sensors included in the kit!
- Interesting Motors Based Projects
- Light & Sound blocks
- 24 well defined sessions for Electronics & Robotics (no coding)

The Kit Contains:

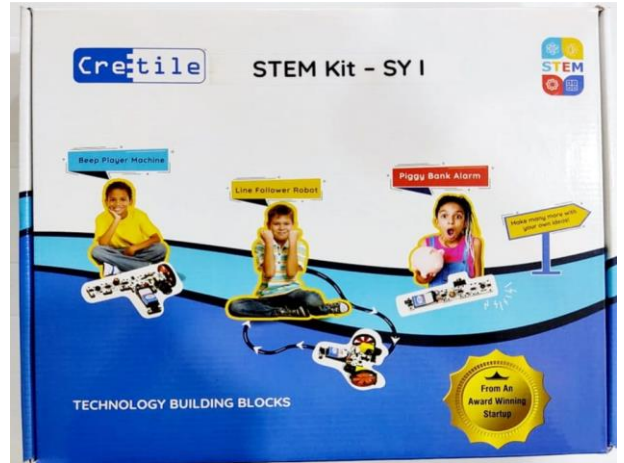|	
Battery Power	Moisture Sensor
Motor -ON/OFF – 2	Obstacle Sensor -2
Buzzer	SensorBase with Threshold -2
Copy	Wheel – 2
High Speed Motor	USB Rechargeable Battery
NOT Gate	Small Wheel
Light	Charging Cable
Light Sensor	Construction Kit - (50+ Pcs)
Mini Plastic Fan	

SALIENT FEATURES

- 20 Cretiles & Accessories
- Plug-n-play blocks for students to easily learn about electronics
- 4 Sensors included in the kit!
- Interesting Motors Based Projects
- Light & Buzzer blocks
- 24 well defined sessions for Electronics & Robotics with coding

The Kit Contains:

Battery Power	Wheel – 2
Motor -ON/OFF -2	USB Rechargeable Battery
Buzzer	Sensor Wire -2
Light	Motor Wire – 2
Light Sensor	Charging Cable
Moisture Sensor	USB Cable
NetLogic – ESP32 Based Programming Block	Construction Kit – (50+ Pcs)
Obstacle Sensor -2	
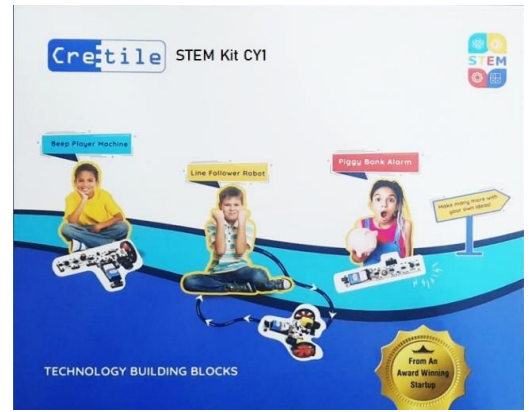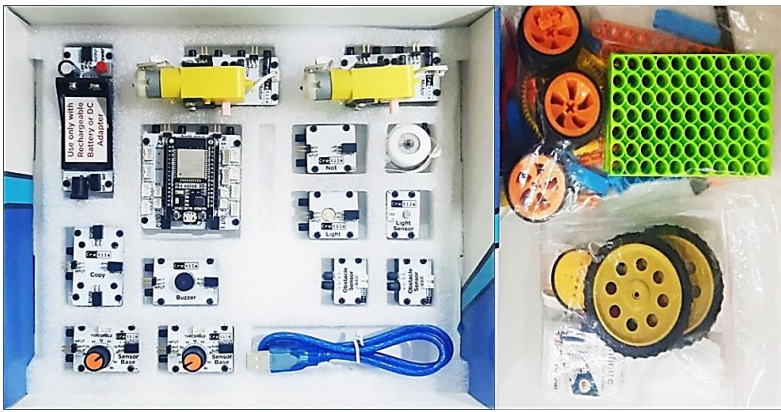
SALIENT FEATURES

- 25 Cretiles & Accessories
- Function of both Jr Kit and Sr Kit available
- 24 Well defined sessions for Jr Grades & Sr Grades each

The Kit Contains:

Description	Units
USB Rechargeable Battery 500mah	1
Power Supply Block	1
Buzzer	1
Copy	1
DC Motor – High Speed	1
NOT Gate	1
Light	1
Light Sensor	1
Mini Plastic Fan	1
Moisture Sensor	1

Description	Units
Servo Motor	1
Servo Motor Part	1
NetLogic – programmable block ESP32 based	1
Obstacle sensor	2
Sensor Base	1
Motors	2
Wheel	2
Construction kit – 100+ Pcs	2
USB Cable	1
Dual Port Chargers with charging cables	1
Small Wheel	1

SALIENT FEATURES

- 63 Cretiles, Accessories & 100+ Pieces of Construction kit

- Function of both Jr Kit and Sr Kit & Much More

- Includes SmartSwitch for Home Automation

- Includes interesting functions such as remote transmitter/receiver, timer & Logic Gates etc.

- 13 types of sensor, 4 Different types of Motors, water pump etc.

- Covers 3 Years curriculum

- 24 well defined sessions per year for Jr and Sr Grades

Cretile

Component	Qty	Component	Qty
Adapter/Charger	1	Servo Motor	2
Battery Power	2	Servo Motor part	2
Buzzer	1	Smart Switch	1
Connectivity sensor	1	sound sensor	1
Copy	1	Submersible pump	1
Dimmer	1	Switch	2
High speed motor	1	Tilt sensor	1
Inverter	1	Transmitter	1
Light	1	U-Left	1
Light Sensor	1	U-Right	1
Limit Switch	2	USB Cable	3
Magnetic sensor	1	Vibration Motor	1
Mini Plastic Fan	1	Vibration sensor	1
Motion Sensor	1	Wheel	2
Motor with mounted BO	2	Small Wheel	1
NetLogic	1	Magnet	1
Obstacle sensor	2	Wire	4
OTG Adapter	1	AND	1
Pipe	1	OR	1
Pulley	1	Toggle	1
Pulse Delay	1	USB Rechargeable Battery	2
Push Button	2		
Receiver	1		
Sensor Base with threshold	4		

100+ Pcs Construction Kit is included

Table of Contents

Construction Set Also available

Cretile

Building Blocks

Battery
It gives power to other Cretiles connected to it.

Motor
It gives movements to your creations

Push Button
It is a momentary switch just like door bell switch

Switch
Switch ON or OFF the cretile connected to it

Light
It provides light for your creations.

Dimmer
It lets you increase/-decrease output like fan speed regulator.

Buzzer
Buzzer gives sound for your creations.

Servo Motor
Servo Motor can be used in projects where you need to control position of motor shaft.

Submersible pump
Use this mini water pump to pump liquid.

High Speed Motor
It gives fast movement to your creations.

Limit Switch
It is a momentary switch just like door bell switch.

Cretile.com

Transmitter

Cretile Transmitter & Receiver talk to each other wirelessly. It gives your projects ability to remotely control & take action.

Receiver

Pulse Delay

Provide timing control to your creations

Copy

With copy control multiple outputs with one input

AND

It gives AND Logic Gate Function

OR

It gives OR Logic Gate Function

NOT

It gives NOT Logic Gate Function (inverting input)

Toggle

Toggle reverses the currently present output.

Pump Motor

Use this block to run a motor or a pump

U Turn Left & Right

It helps to reduce the circuit length by taking a turn

Wire

Use Wire to connect Cretiles kept at a distance

Cretile Building Blocks

Sensor Base

Mount various sensors on sensor base to use in your project

Obstacle Sensor

It detects presence of an obstacle in front of it.

Connectivity Sensor

Cretile Connectivity to test electrical conductivity of an object.

Moisture Sensor

Sensor detects vibration of the surface on which it is placed.

Tilt Sensor

It detects the surface is titled on not, on which it is placed.

Vibration Sensor

It detects vibration of the surface on which it is placed.

Magnetic Sensor

It detects the presence of magnet near it.

Light Sensor

It generates output based on brightness of light shining on it.

Motion Sensor

Sensor that detects the motion around.

Sound Sensor
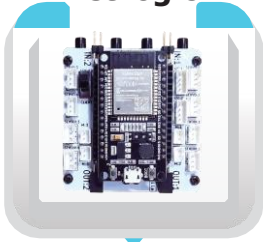
Sound Sensor detects sound

Cretile Building Blocks

ProLogic

ProLogic

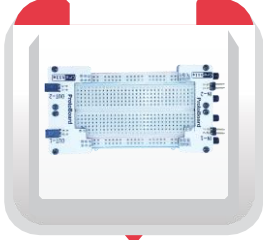**It's a programmable module. It can be programmed using ArduBlock* or by writing C/C++ code.**

NetLogic

NetLogic

It includes built-in Wi-Fi and BLE capability which makes it suitable for IOT and Wireless applications.
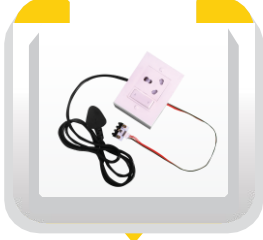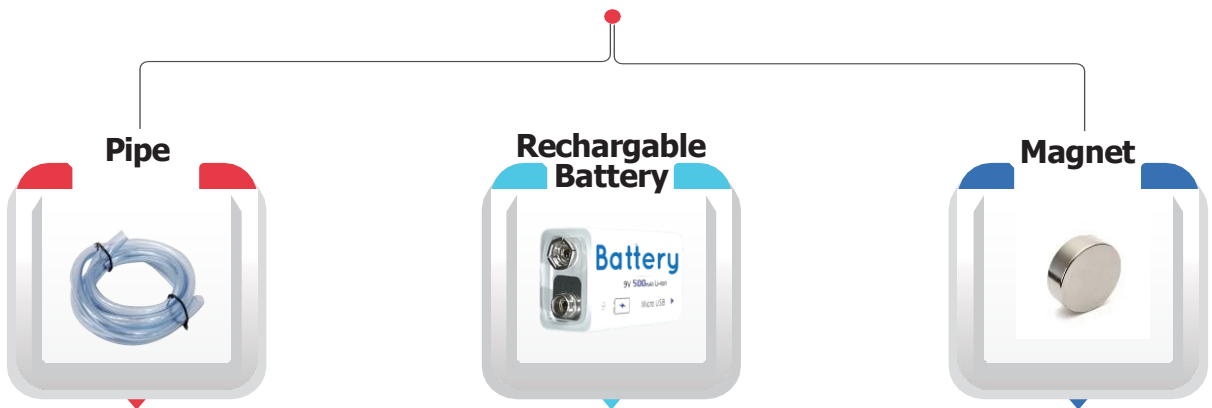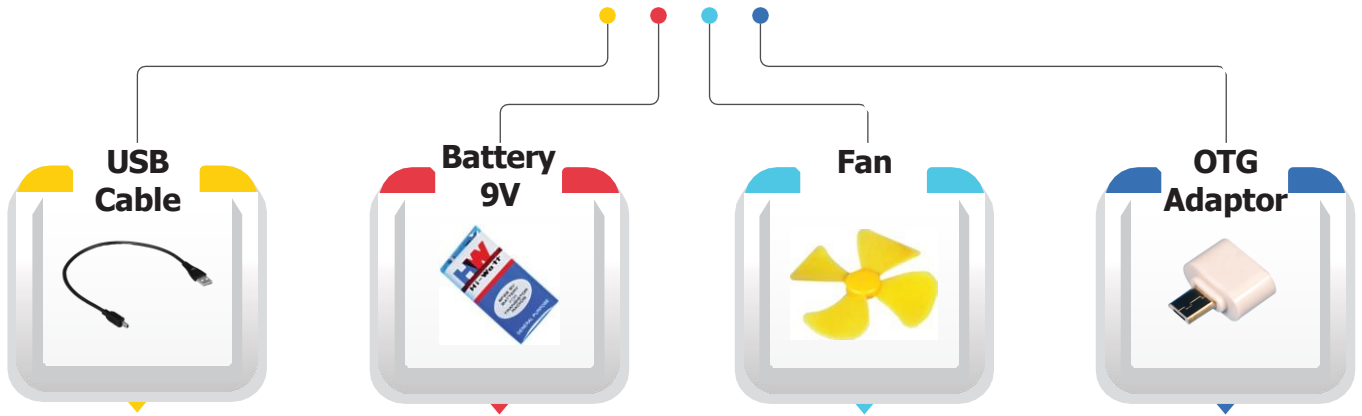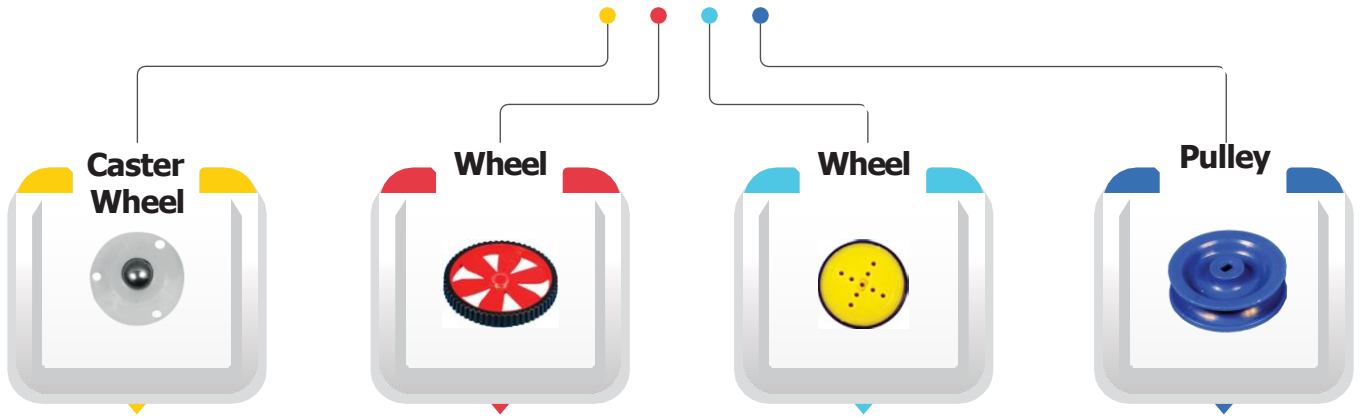
PotoBoard

ProtoBoard

It helps to prototype your own circuts

SmartSwitch

SmartSwitch

SmartSwitch lets you to control 240V/5A appliance with Cretile

Caster Wheel

Wheel

Wheel

Pulley

USB Cable

Battery 9V

Fan

OTG Adaptor

Pipe

Rechargable Battery

Magnet

Cretile Construction Kit

Construction set has 100+ different components that are compatible with Cretile blocks. Combine these with Cretile Blocks to make super interesting projects. Check out some of the project images below....
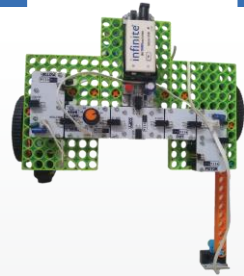
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Cretile

www.Cretile.com