# STEM LEARNING SYSTEM (MEDIUM) ORDER CODE - STEM-002





- This kit is designed for schools to be able to roll out well structed STEM/Robotics/AI education programs. This is an
  awesome medium kit that offers modular Electronics, Robotics & Coding blocks. The kit can be used both with and
  without coding making the first step very easy for students. It has 45 blocks containing coding block, power supply,
  various inputs, sensors, outputs, motors, blocks for logic gates and much more. The kit also has plastic construction
  components.
- The kit support Block coding, C++ & Python. The coding can be done using Windows, Android and iOS PCs/tablets
- The kit comes with well structured 24 sessions of video curriculum that is available in LMS (learning management service). We also conduct teacher training programs.
- Education topics covered: Electronics, Robotics, Al & IoT

#### **Specification**

- Contains 45 Module & Accessories
- It contain one Programmable Block called NetLogic (WIFI & Bluetooth both)
- Basic electronics components like Light, Buzzer, NOT Gate, High Speed Motor, Push Button, Pulse Delay etc
- Two ON/OFF Motors with Mounted BO & Servo motor & Parts
- Some sensors like Light Sensor, Obstacle Sensor, Motion Sensor, Tilt Sensor, Sound Sensor & Moisture Sensor
- Rechargeable Battery with Charge & Cable & U-Right also
- Having Construction Kit which contains 50+ components

#### Sample Projects

- · Automatic door alarm
- · Pre-programmed path robot
- · Cliff avoiding robot
- Obstacle avoiding robot
- Digital Key
- Salt-water conductivity.....and many more



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Component	Qty	Details
Bettery	1	USB Rechargeable Battery
	2	Battery Power Block - Supply power to rest of the blocks
	2	Motor Blocks – make lot of robotics and other interesting projects with it
Speed Motor	1	High Speed DC Motor
	1	Buzzer – Give Sound to your projects
	1	Light – Make your project shine and light
~~	1	Connectivity Sensor
	1	Copy block
(CCC 111s) Anton Sensor	1	Motion Sensor – sense Motion to make decisions

Compo- nent	Qty	Details	
	1	Obstacle Sensor - Make your projects to take decision by sensing things around it	
	1	Sensor Base – Connect variety of sensors to this base	
illery.	1	Light Sensor – Make your projects to sense light around it & take decisions	
The state of the s	1	Moisture Sensor - Sense moisture to make decisions	
	1	NOT – Logic gate that give inverted output of its input	
	1	Dimmer – Allows output to be increased or decreased as per project need	
	1	Limit Switch - Provides door bell like push switch functionality	
	1	Pulse Delay – Add timer function to your project to make smart decisions	

Component	Qty	Details
	1	NetLogic - Code your kit
		Use Drag-n-drop coding/C++/python
		With Wi-Fi Connect to internet & explore the world of IoT
	1	Push Button - Provides door bell like push switch functionality
	1	Servo Motor + Driver
	1	Submersible water pump
	1	Switch
	1	U-Right: make your circuit compact with it
8	1	Place your Cretile flexibly with wire

Construction Kit Component	Qty	Details	9
	2	Base Plate	4
****	18	Connector	0 0
/////	4	Connector	
	2	Motor Coupler	
	1	Remover Tool	

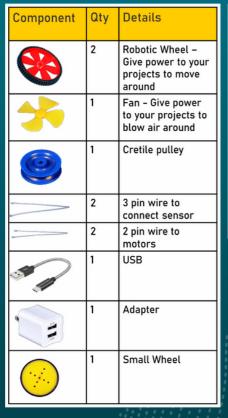
Construction Kit Component	Qty	Details
	6	1x5 Strip
\$\$\text{\$\exittt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittit{\$\text{\$\t	4	1x11 Strip
	1	Wheel Shaft
000	3	Gear Wheels
	1	Big Gear
3 3 3	1	Shaft

Construction Kit Component	Qty	Details
	2	Free Pipe
	3	Robotic Wheels
00	2	Moving Connectors
	4	Free connectors

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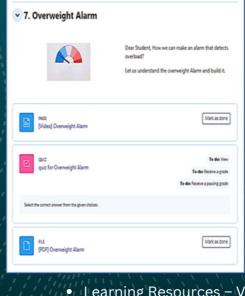




Component	Qty	Details
	1	AND Gate
	1	OR Gate
	1	Toggle
	1	Pipe

LMS FOR TEACHER'S & STUDENT'S

**Student View** 





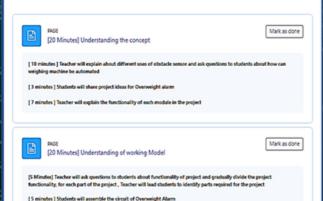
[Teacher Resource] 7.Overweight Alarm

utes ] Students build the structure of project using construction blo

[ 40 Minutes ] To understand the another use of obstacle sensor, by making students aware of weighing machine, and concept of overweight alarm.

**Teachers View** 

Goal of the project is to understand the how can we make weight measuring instrument and use it for real world applications.



- Learning Resources Videos & Documents
- Quizzes
- Scholarship
- Teaching Resources
- Session Power Point presentations
- Monitor students progress

