CODE CALCULUS

Type the name of Coding

Your first step to coding!
Learn sequences, commands, blocks, algorithms, variables, loops, **functions, events, sprites, 3D designs, Artificial Intelligence and its STEAM applications using kids friendly programming language developed by MIT and Google to create animations, games, stories** and A.I. powered apps.

Coding Makes Kids Smarter!

Our unique "5C" teaching methodology

Connect	Concept	Code	Contemplate	Continue
Real world examples	Demystify the topics	Digital Creations	Analyse viable possibilities	Ideate & Practice Learning

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Benefits of learning to code at early age

Improves Problem Solving Skills

Provide Competitive Advantage

Enhance Logical Thinking

Widens Career opportunity

Stimulates Creativity and Imaginations

Increases Focus and Concentration

Strengthen the ability to build

Improves Presentation skills

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Course Descriptor

Mentor Led Robotics Curriculum for classes 9-12

Your first step to coding!
Learn sequences, commands, blocks, algorithms, variables, loops, functions, events, sprites using kids friendly programming language developed by MIT and Google to create animations, games, stories and apps. Share your apps with friends & family.

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Learn sequences, commands, blocks, algorithms, artificial intelligence, variables, loops, functions, events, sprites using kids friendly programming language. Learn Robotics basics in the most efficient way possible.

Robotics Curriculum	
1	Introduction to electronics
2	Difference between analog and digital signals
3	Ohms law(practical)
4	Platform tinkercad setup and how to use?
5	Understanding block based coding (c-embed blocks)
6	Basic electronic components
7	Connections concept(series and parallel connection)
8	LED with battery
9	Lemon battery creation
10	Lemon battery creation
11	Potato battery creation
12	Potato battery creation
13	What is arduino board?
14	Arduino ide ,setup uses and c embed
15	Programming language for arduino(c-embed structure)
16	Connection with arduino(pwm pins)
17	LED blinking project
18	Diwali light creation
19	Rgb led
20	Led with pushbutton
21	Buzzer with arduino
22	Alarm system with arduino and buzzer
23	LCD with arduino
24	Digital menu system

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25	Automatic street light project(using LDR sensor)
26	Temperature using temperature sensor
27	Output on LCD
28	IR sensor with arduino
29	Object detector
30	Motion sensor
31	Motion detector system
32	Bend detector using (bend sensor)
33	Bend detector using (bend sensor)
34	Inclination of object using tilt sensor
35	Inclination of object using tilt sensor
36	Ultrasonic sensor
37	Distance measurement using ultrasonic sensor
38	Servo motor
39	Automatic dustbin project
40	Gas sensor
41	Gas alert system
42	Vibrator motor with sensor
43	Vibrator motor with sensor(part-2)
44	7 segment display timer
45	Count down timer using 7 segment display
46	Dc motor working
47	Dc motor operation with arduino
48	Proteus setup
49	Proteus understanding along with how to use
50	Required libraries for proteus

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51	Controlling LED with bluetooth application (day-1 circuit creation)
52	Controlling LED with bluetooth application (day-2 practical circuit creation)
53	Controlling LED with bluetooth application (coding)
54	Controlling LED with bluetooth application (app development)
55	Controlling LED with bluetooth application (testing)
56	Follow me robot(day-1 discussion)
57	Follow me robot(day-2 circuit designing)
58	Follow me robot(day-3 circuit creation practically)
59	Follow me robot(day-4 coding for robot)
60	Follow me robot(day-5 testing)
61	Follow me robot(day-6 modification required)
62	3-d modelling for robots
63	Mug designing
64	Eiffel tower
65	3-d wheel
66	Wrench designing
67	Drone 3d model designing(part-1)
68	Drone 3d model designing(part-2)
69	Humanoid robot designing (part-1)
70	Humanoid robot designing (part-2)
71	Battle robot designing
72	What is robotics?
73	Bluetooth controlled car(day-1 discussion on robotics arm and working)

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74	Blue tooth controlled car (day-2 component requirement)
75	Blue tooth controlled car(day-3 circuit creation (part-1))
76	Blue tooth controlled car (day-4 circuit creation(part-2))
77	Blue tooth controlled car (day-5 practical circuit creation (part-1))
78	Blue tooth controlled car (day -6 practical circuit creation (part-2))
79	Blue tooth controlled car (day-7 coding for robotic arm)
80	Blue tooth controlled car (day-8 coding for robotic arm (part-2))
81	Blue tooth controlled car (day-9 implemention and testing (part-1))
82	Blue tooth controlled car (day-10 implemention and testing (part-2))
83	Blue tooth controlled car (day-11 modification)
84	Blue tooth controlled car (day-12 modification)
85	Robotic arm controller app (part-1)
86	Robotic arm controller app (part-2 platform setup and designing)
87	Robotic arm controller app (part-3designing the app)
88	Robotic arm controller app (part-4 coding the app)
89	Robotic arm controller app (part-5 coding the app)
90	Robotic arm controller app (part-6 testing the app)
91	Robotic arm controller app (part- 7testing the app)
92	Robotic arm controller app (part-8 modification required)
93	Robotic arm controller app (part-9 modification required)