avishkaar

IoT
Microdegree

Ages 10+

Benefits of this program

24 one-hour live online sessions with expert trainers in 3/6 months

21 class projects + 21 additional challenges to master your skills

Demo Days to present personal projects and get expert feedback

Detailed reports of creative and conceptual learning

Global Community - Innovate with others and connect with experts

Free expert counselling to help with child's progress

Avishkaar's educational experience proudly bears
the STEM.org trustmark

Learn using

AMS
Avishkaar Maker Studio
Block Programming Software

MakerBoard

Demo Day

Demo Day

Milestone 1   ## Milestone 2   ## Milestone 3

Animation Coder

Learn to create various types of animations using LED matrix on MakerBoard

Beginner IoT Enthusiast

Learn in detail about Internet of things and make various applications using Bluetooth and MB Play app
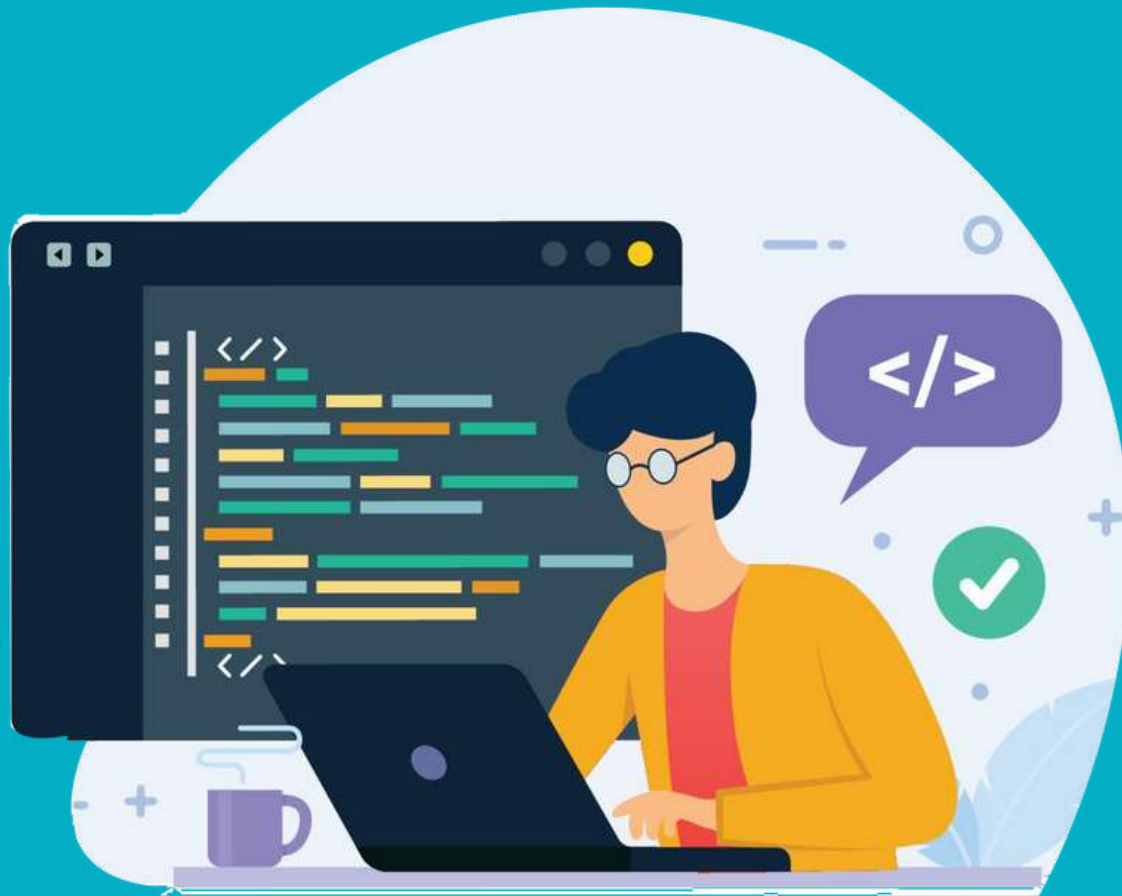
Beginner Electronics Enthusiast

Learn to make various circuits based projects using sensors and Bluetooth

Each Milestone will have

8 Sessions   **14 Challenges**   **Regular Global Competitions**
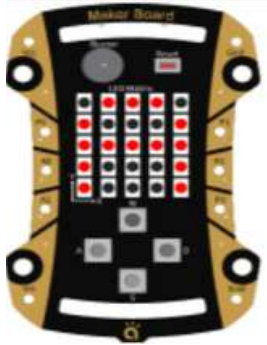
![Milestone 1: Animation Coder](illustration of a person coding on a laptop with code windows and a code speech bubble)
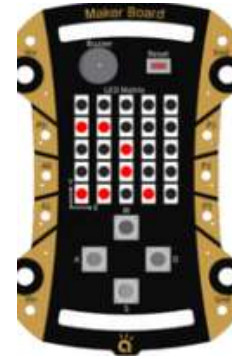
Milestone 1: Animation Coder

Sessions

01

Name initial letter

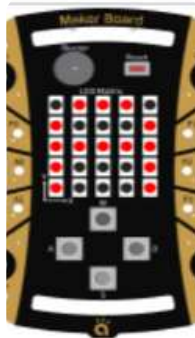- LED Matrix
- Pattern Glow

02

Display Board

- Coordinates
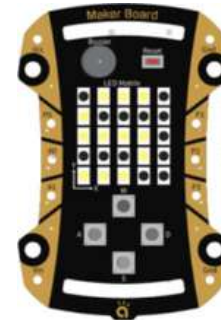- Custom Pattern

03

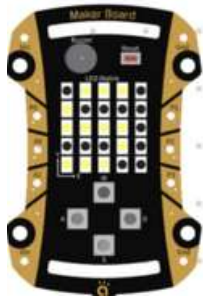## Mood Badge

- Basic of Animation
- Delay

04

Happy Birthday Tune

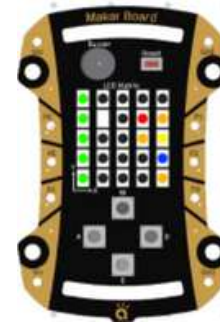- Use of On-Board Buzzer

05

Sargam

- Custom Music with On-Board Buzzer
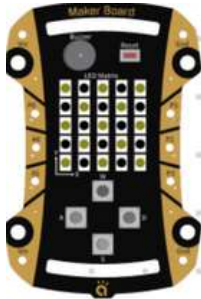
06

TV Channels

- Events
- On-Board Buttons

07

Firefly Effect

- Advanced Loops
- Animation

Demo Day

- Demonstration Skills
- Design Thinking Process

Milestone 1: Certificate

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STEM DUO
ACCREDITED
EDUCATIONAL EXPERIENCE

0001
0100

Animation Coder

This certificate has been awarded to

for completion of "Milestone 1 : Coding and Animation Course" on   of
- IoT Starter Microdegree.

Founder & CEO, Avishkaar

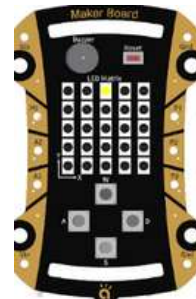**Milestone 2: Beginner IoT Enthusiast**

Sessions

01
Building a zoo

- Understanding Sprites

02
Tracing a square

- Manipulatng Sprites

03
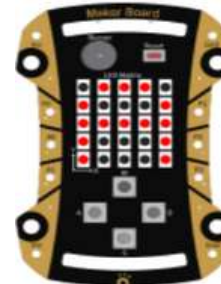100 natural numbers on app

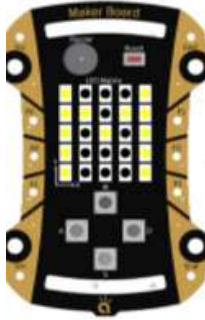- Bluetooth and Application

04
Print Voice Messages

- Text to Speech
- Voice Controlled System

05

Piano

- Sliders and Piano Controls

06
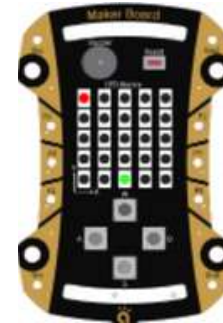
Wireless snake game

- Wireless Communication between two Bluetooth enabled Device

07
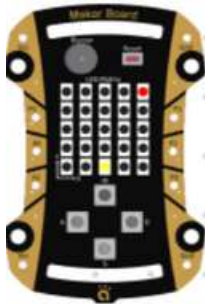
Tilt Game

- Accelerometer Sensor
- Tilt detection

Demo Day

- Demonstration Skills
- Design Thinking Process

Milestone 2: Certificate

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ACCREDITED
EDUCATIONAL EXPERIENCE

Beginner IoT Enthusiast

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on   of

- IoT Starter Microdegree.

Founder & CEO, Avishkaar
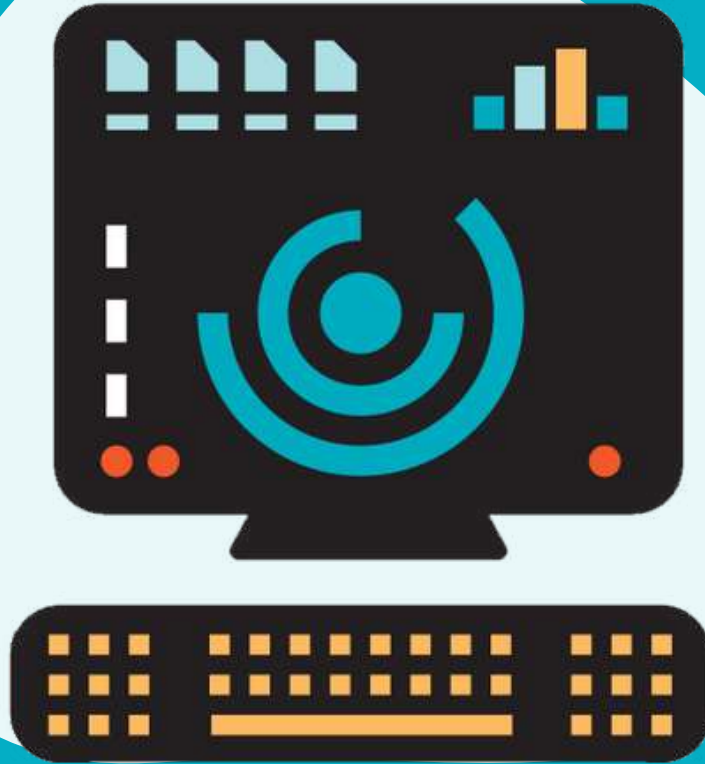
Milestone 3: Beginner Electronics Enthusiast

Sessions
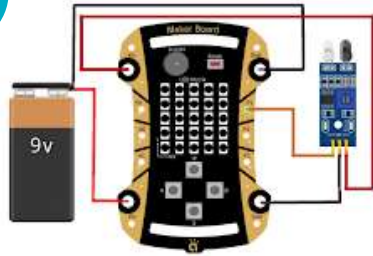
01
Contactless Door Opener

- IR Sensor and Application
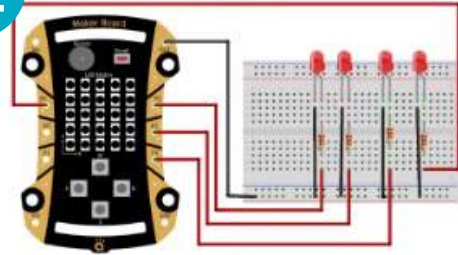
02
Knight Rider Circuit

- Series and Parallel Circuits
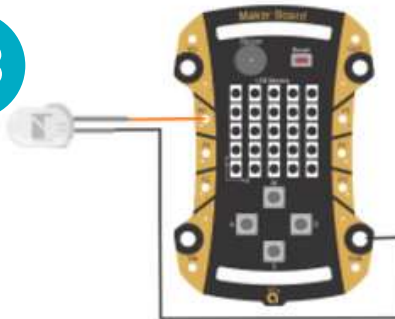
03
Fading effect

- Concept of PWM
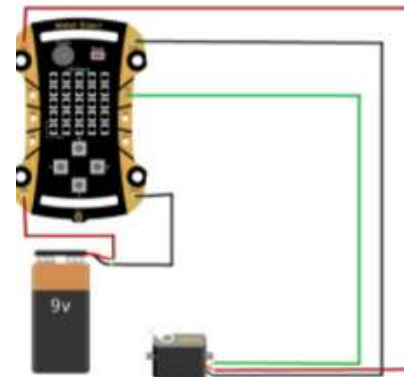
04
Basic servo movements

- Servo Motor movements

05

Rain alarm

- Rain water Sensor and application

06
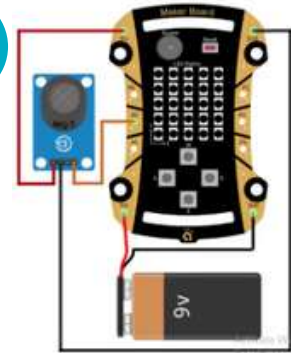
Pollution Badge

- MQ Sensor and application

07
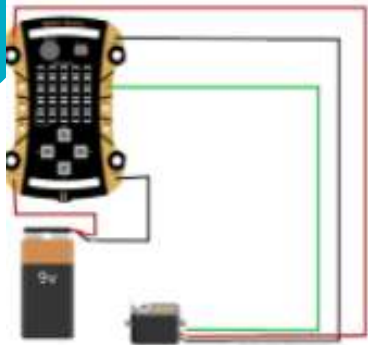
Reading Glass wiper

- Servo Motor Application

Demo Day

- Demonstration Skills
- Design Thinking Process

Milestone 3: Certificate

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EDUCATIONAL EXPERIENCE

Beginner Electronics Enthusiast

This certificate has been awarded to

for completion of "Milestone 3 : Beginner Electronics Course" on   of
- IoT Starter Microdegree.

Founder & CEO, Avishkaar

Stay on top of the child's progress

A+

Parents get detailed reports including:

Projects made by students

Feedback from trainers

Badges earned

Progress on skills

STEM ACCREDITED

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Certificate of Completion

IoT Starter Microdegree

is awarded to

for completion of all the three milestones:

Milestone 1
Coding and
Animation Course

Milestone 2
Beginner IoT Course

Milestone 3
Beginner Electronics
Course

on

Founder & CEO, Avishkaar

Microdegree Certificate

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STEM
ACCREDITED
EDUCATIONAL EXPERIENCE

Certificate of Completion

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Microdegree

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Beginner IoT Course

Milestone 3
Beginner Electronics
Course

Founder & CEO, Avishkaar

Curriculum designed by alumni and veterans from prestigious universities and companies

Microsoft

Adobe

INSEAD — The Business School for the World®

BITS Pilani

IIT Delhi

Ace Design + Communication Skills

Let's Avishkaar

Your kids get access to our global community Let's Avishkaar
with thousands of innovators from across the globe

Monthly expert
webinars

Free workshops
and how-to-videos

Exciting content
on next-gen tech

Regular competitons
win prizes upto Rs10,000/-

Avishkaar League

Prepare to participate in Asia's Biggest Innovation & Robotics Competition

Russia

China

United States

Dubai

Singapore

Maldives

Win prizes upto

Rs. 5 lacs

including sponsored
international competitions

Learn from Masters

Pragya
Robotics Trainer

6000+ hours

Pragya is passionate Robotics & Coding Instructor with 20+ years of experience.

Shweta
Curriculum Lead

6000+ hours

Shweta is a driven Robotics & Coding trainer with over 15+ years of experience.

Gautam
Robotics Trainer

6000+ hours

Gautam is one of our most beloved Robotics, Coding & App Dev trainers.

Amarpreet
Curriculum Lead

6000+ hours

Amarpreet is a young coding & electronics trainer full of passion and zeal.

Hear from our happy customers

★★★★★

Kiyansh, 10

"I made a humanoid robot to help take care of COVID patients in isolation"

★★★★★

Aarav, 7

"I have made a Smart Dustbin that works on my command. This will help in contactless disposal of the waste"

★★★★★

Adhiraj, 10

"I made an automatic screwdriver to help me and my dad with our robotic projects"

FAQs

Is this suitable for kids who have never done any coding before?
Yes. This is the perfect course for kids aged 10+ who have never done any coding before. If your kids love tech and want to make their own awesome software and video games, then they should join this course today!

Do I need to pay separately for the software and kit used in the course?
The cost of the software and kit are already included in the MRP. If you are an existing Avishkaar customer who already have our kits and just want the training, then click on the 'I already have the kit' option to see the training only cost.

What is the format of the course?
It is a live online course with 1:3 batch strength, where each week the students make one new project with a trainer on video call, and get one project as homework.

Would I receive some guidance for the demo day projects?
Avishkaar's "Demo Day" is when your child learns to apply knowledge to action.
- It is probably the most significant part of the course as the child develops skills like self-learning, confidence, crisp and precise articulation, engaging with people, and problem-solving skills while working on creating an all-new project.
- While the child is preparing to present the demo day project, they can request guidance from the mentor. The mentor would answer the child's questions and direct the child in the right direction. However, making and presenting the project is entirely the child's responsibility.

Still not convinced ?

Trust the 200,000+ young innovators & the
'Stars of Avishkaar'
who're already flying high across the globe..

Sachi Sinha

3rd Year,
Electronics and Computer Engineering,
National University of Ireland, Galway

Watch Video

Mihir Vardhan

1st Year, Electrical Engineering,
University of Illinois,
Urbana-Champaign

Watch Video

Rishabh Garg

Student, Georgia Tech
IRC League Winner

Watch Video

Hear from 50,000+ students who are learning coding and robotics with us!

Use the link or scan the QR code to watch this video!

https://www.youtube.com/watch?v=mCfF8sBJ_l4

Watch Now!

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BUILD. SHARE. WIN