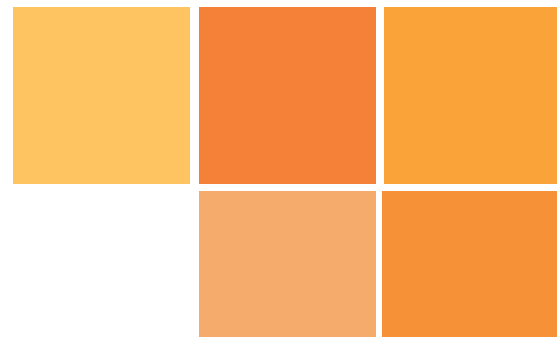




# PROGRAM OFFERINGS

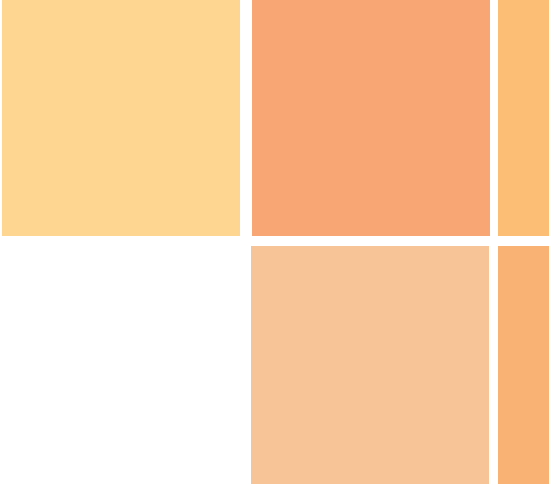




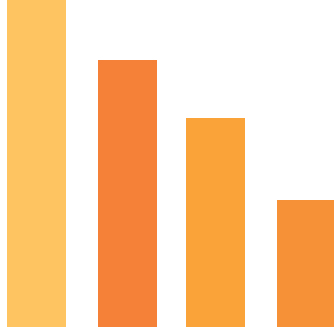
# ABOUT COMPANY

STEM126 is an Online Ed Tech Company which focuses on nourishing Next Generation learners across emerging technology through Digital Medium.

We aim to build strong *“Tech Foundation”* among learners in multiple dimensions of technologies including *Coding, Rapid-prototyping, AI & IoT, Robotics & Automation, Animation and Game Designing etc.*



Thus, we boost learners’ *Learning with 21<sup>st</sup> Century Skills* and provide them invincible arm to fight the future tech-driven challenges.



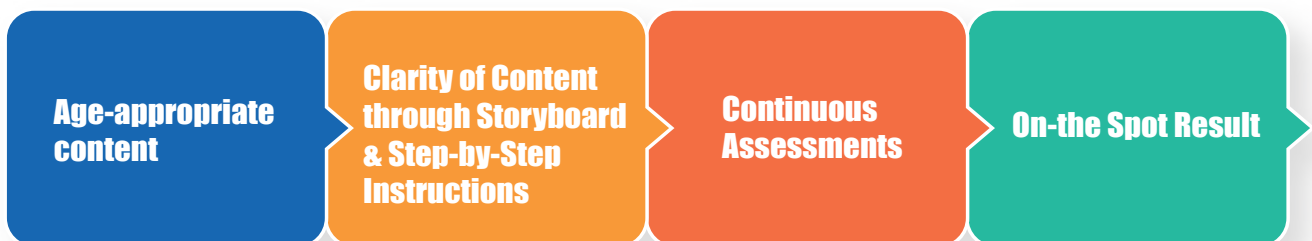
# WHAT DO WE OFFER

STEM126 offers a Blended Learning Platform that offers diversified courses. It aims to reform the learning for meeting the demands of Future Industries.

## OUR PROGRAMS



We provide an affordable self-paced learning platform through which we can offer simpler and effective Hybrid Learning



All the courses are developed to reach out to the masses to facilitate Hands-on Exploration amalgamated with Scientific and Mathematical Concepts & understanding in-context of Technology.

# STEM IMPLEMENTATION CHALLENGES:

E-Learning systems have shown benefit worldwide in education sector. Many countries and educational associations have published a statement supporting the adoption of Online learning combined with STEM and tech learning to inculcate 21<sup>st</sup> Century skills in students.

However, on the Ground Level we continue to Face Implementation Challenges such as



LACK OF TECHNICAL TRAINER



LACK OF STANDARDIZED CONTENT



LEARNING COMPLEXITY FOR LEARNERS

## WE ADDRESSED IT BY HAVING FOLLOWING FEATURES:



SELF-PACED ADAPTIVE LEARNING



GUARANTEED LEARNING QUALITY



MULTI-DISCIPLINARY COURSES



LEARNING ROADMAP



BUILT-IN GAMIFICATION



PERSONALISED LEARNING PATH



RESPECTING LEARNER'S PRIVACY



STORY BASED LEARNING



ASSESSMENTS & CERTIFICATIONS



EVENTS & COMPETITIONS



PERSONALISED REPORTING



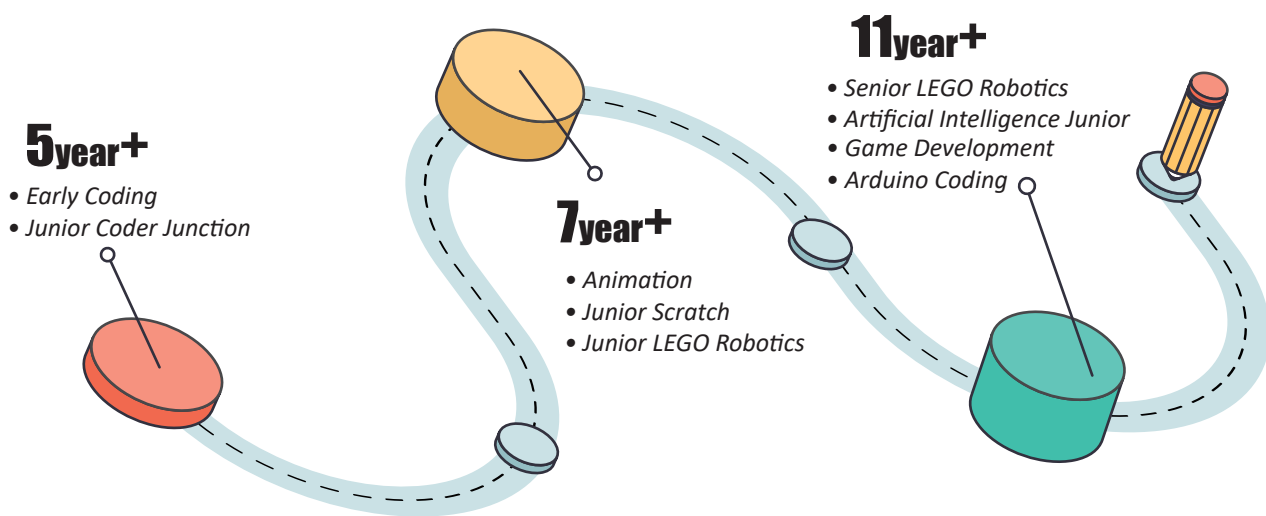
SUPPORT SERVICE

# OVERVIEW OF QROCITY'S OFFERED COURSES

## Online Coding Courses

STEM stands for Science, Technology, Engineering, and Mathematics, which are all in high demand in a variety of fields. The STEM workforce lays the foundation for high-demand 21<sup>st</sup>-century skills.

And, in order to accomplish the aforementioned, we've created a number of courses, which are stated below, to engage students by linking STEM education with real-world understanding of their academic learning and job prospects. These Courses are done online.



## Hands on Learning courses

Skills-based courses are those in which students are taught a specific skill. The main goal of introducing this course is to lay the groundwork for tech capabilities such as Embedded, IoT, AI, and Drone, allowing students to become masters of such technologies. These courses may require additional hardware.

<b>Robotics</b> (Arduino)	<b>MAKER</b>	<b>SPARK</b>	<b>ALPHA</b>
<b>Robotics</b> (Block Programming)	Coaling With Cooper		
<b>IoT</b>	<b>IOT</b>		
<b>Drone</b>	<b>Drone</b>		



# ONLINE STEM COURSES

Build Kids' Foundation with Computational Skills



Early Coding  
(Sequential Coding)



Junior coder junction  
(Scratch Based Coding)

5+ YEAR

7+ YEAR

Infuse Digital Art amalgamated with Coding Skills



Scratch



Animation



JR LEGO Robotics

11+ YEAR

Enter into New Vista of Tech Knowledge



# ONLINE STEM COURSES - LEARNING OUTCOMES

## 5+ Year Courses

### Early Coding



Explore Directional Awareness



Letter Search with Alphabet Mat

### Junior Coder Junction



Learn Vocabulary through Storytelling



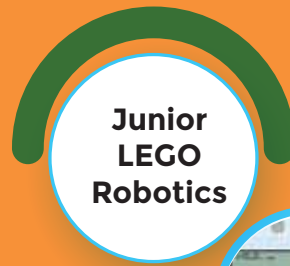
Code to draw Alphabet

## 7+ Year Courses



Animation

Create Digital and Physical Characters



Junior  
LEGO  
Robotics

Learn, Code &  
Simulate LEGO Robotic  
Bots



Scratch

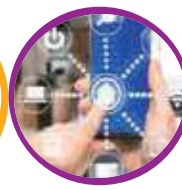
Storytelling with Dialogue  
Writing

## 11+ Year Courses



Senior  
LEGO  
Robotics

Applied Science & Mathematics concepts while  
Designing Virtual Robotics Bot



AI Junior

Develop Smart City & Security System



Arduino Coding

Hands-On Learning with  
Virtual Circuits & Controllers

Become a Game Developer by  
exploring Non-Coding Platform



Game Development

# LABS

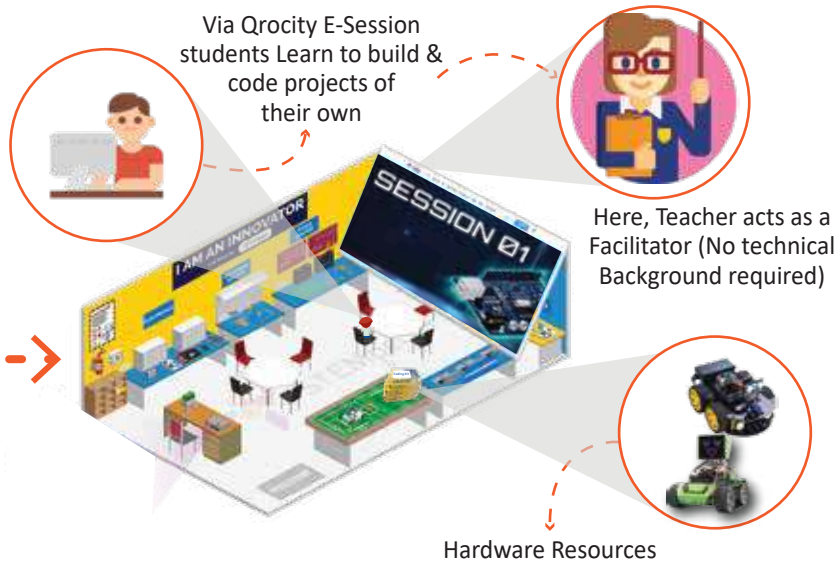
(TINKERING LAB/DRONE LAB/ROBOTICS LAB)



Educational Institutes

Be Technology Ready

Via Qrocicity's offered Labs (Based on Hybrid Learning)



Online Sessions Via Qrocicity



Hardware Kits



Build & Code by following Step by Step Instructions

Qrocicity's Tech Based Online sessions

Hands-on Project Designing



IN OUR LAB OFFERINGS, WE PROVIDE HYBRID LEARNING PLATFORM FOR STUDENTS TO LEARN & EXPLORE

## What Do we Offer?



Theory + Practical Sessions



Regular Assessments



Self-Learning Platform



Mentorship Guidance

- ★ Laptop requirement is must for conducting sessions
- ★ Complete Tech Support is available at [info@qrocicity.com](mailto:info@qrocicity.com)
- ★ Kids learn at their own self pace with standard e-content (No Technical Trainer Required)

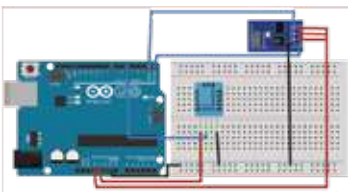


# TINKERING LAB

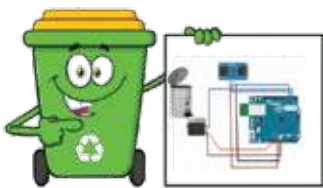


## SILVER PACKAGE

E-Session 40  
40 Hands-On Projects



**Project:** Temperature & Humidity Monitoring System  
**Concepts:** Coding with Sensors

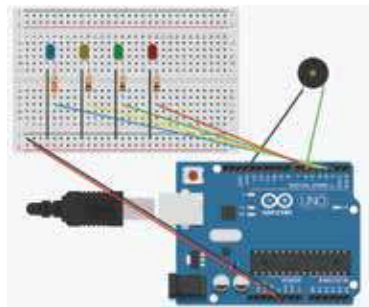


**Project:** Smart Dustbin  
**Concepts:** Motor & Sensor Coding



## GOLD PACKAGE

E-Session 20  
62 Hands-On Projects

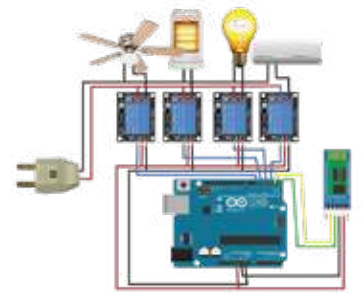
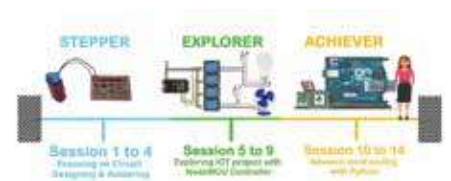


Understand how to Code with Controllers & Develop Real Time Projects



## DIAMOND PACKAGE

E-Session 38  
132 Hands-On Projects



Code Advance level IoT Project

# DRONE LAB



20 Hours  
Hands on Sessions

## LEARNING OUTCOMES DRONE

01



Understanding the concept of Aerodynamics

02



Use Phone as Controller

03



PC/MAC Compatible for Coding

04



Code Project in-context of Future application

05



Programming Drone with both blocks and C/ C++

06



Flying, stabilizing and controlling the Drone

# ROBOTICS LAB



20 Hours  
Hands on Sessions

## LEARNING OUTCOMES QOOPER

Control and Program your Robot with your Phone or PC



Enhance Design Thinking mechanism with Qooper Models

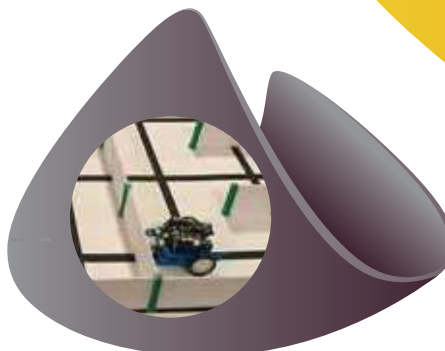


LEARNING OUTCOMES



Qooper as Line follower and Obstacle avoidance bot

Exploring different STEM Concepts through programming

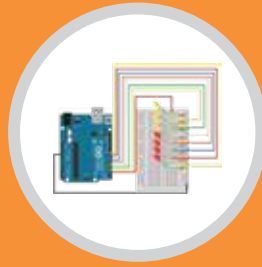


# STEM BOX COURSES (BASED ON HYBRID LEARNING PLATFORM)

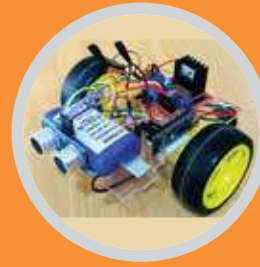
## MAKER (BEGINNER AI & IOT KIT)



Model: Remote Control Bot  
Concepts: Radio Frequency,  
Turning



Model: LED Pattern  
Concepts: Arduino  
Programming

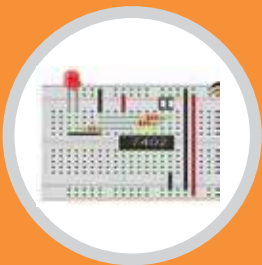


Model: Autonomous Bot  
Concepts:



Model: Remote Control Car  
Concepts:

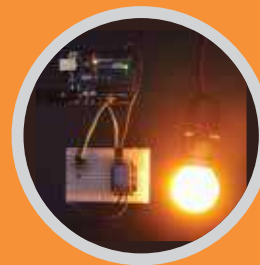
## SPARK (INTERMEDIATE AI & IOT KIT)



Model & Concepts: Logic  
Gate



Model: Home Automation  
Concepts: LDR SENSOR, Relay,  
Analog and Digital Signal

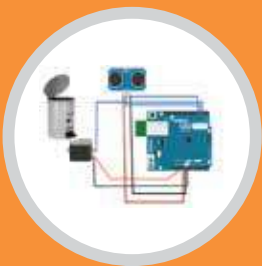


Model: Home Automation  
Concepts:

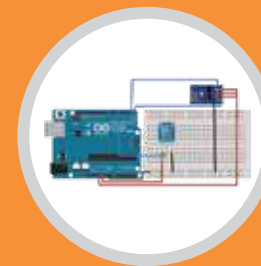


Model: Line Follower Bot  
Concepts:

## ALPHA (ADVANCE AI & IOT KIT)



Model: Smart Dustbin  
Concepts: Motor & Sensor  
Coding



Model: Temperature &  
Humidity Monitoring System  
Concepts: Coding with Sensors



Model: RGB Interfacing  
Concepts:



Model: Explorer Bot  
Concepts:

## FORCE (PHYSICS KIT)



Model: Sweeper Car  
Concepts: Friction force,  
surface area



Model: Hammer  
Concepts: Mechanical  
Force, Motion conversion



Model: Elastic Car  
Concepts: Elastic Force,  
Tension Force



Model: Hand Crane  
Concepts: Contact Force



# WORKSHOPS

( ARDUINO & IOT/ ROBOTICS/DRONE )



**FREE**  
**ANY ONE ONLINE**  
**CODING COURSE**

*Workshop is also Available for "Online STEM Courses"*

# DISCOVER A NEW WAY OF LEARNING

