

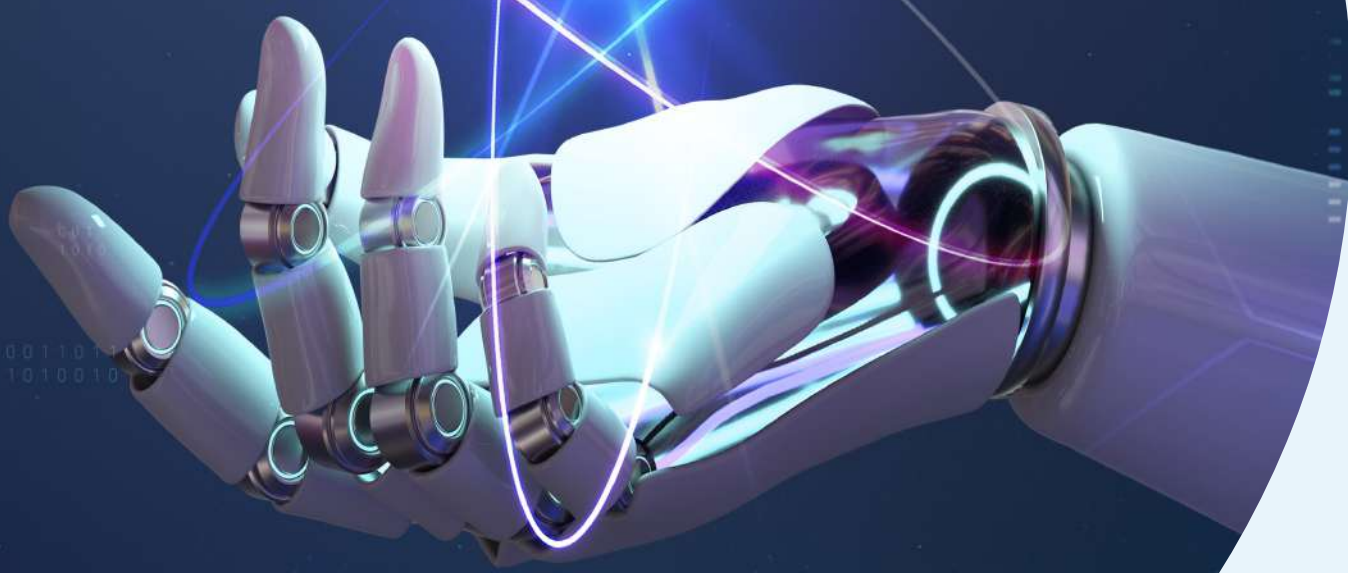


<DEVELOPERS/>

Innovation Learning Programme

ROBOTICS WORKSHOP COURSE OUTLINE

Redevelopers Automate Solution Pvt.Ltd



Beside C.S.P School , Near
Hanuman Mandir ,Gayetri
Nagar,Katni (M.P) 483501



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ABOUT US

Every child deserves the right future give exposure to your child in all the latest 21st century tech fields - in a fun way. Let them have a chance to experience their real future and decide what they like and what they are strong at. **Redevelopers Automate Solution Pvt.Ltd** has stepped forward to train students about robot building and programming.

We provides exposure to robot programming, enhance problem solving skills and help logic development.



WHAT IS THIS COURSE ABOUT?

The purpose of this course is to help students to build their own robotics projects. Students will be provided with the kits and our Engineers will give you the knowledge to develop the 3 IoT projects from scratch.

The majority of your time in the course will be spent on hands-on activities.

In this training program, students will develop this knowledge by building 3 popular robotic systems. Here's what you'll learn by hands-on sessions:

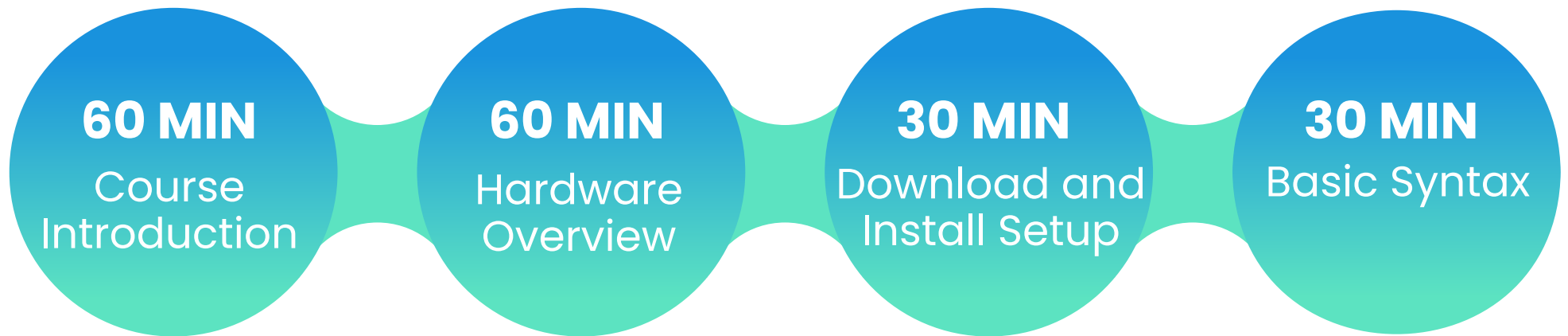
1
Concepts of various
Programming in
robotics
technologies

2
Working of motors,
sensors and
microcontrollers

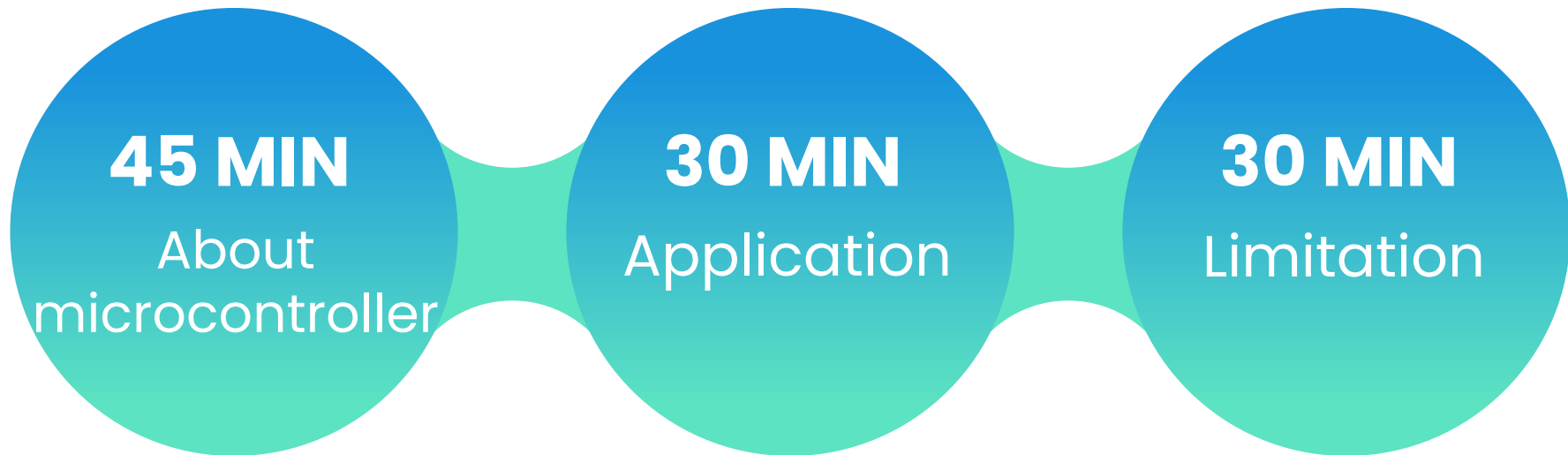
3
How to design
mechanical
structure of robot

4
How to program
and test robots

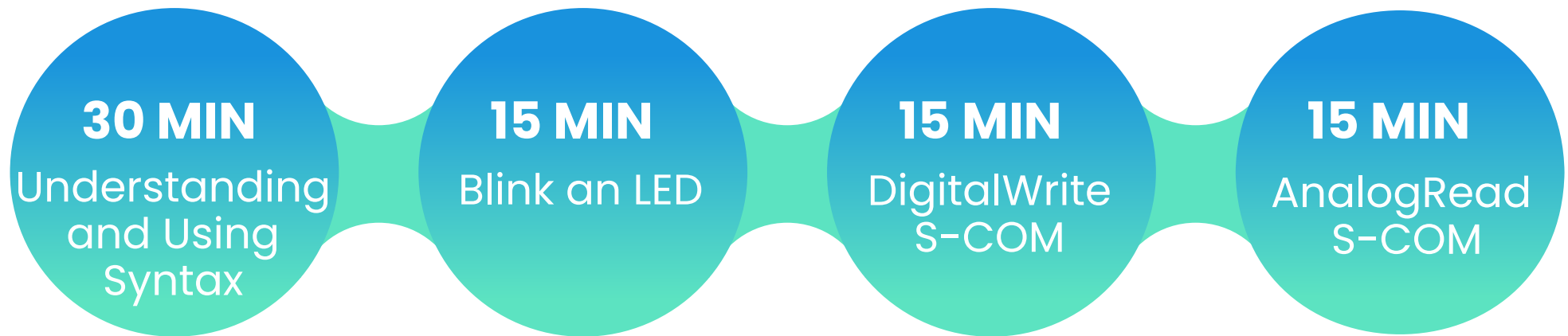
INTRODUCTION & FAMILIARIZATION



ABOUT MICROCONTROLLERS



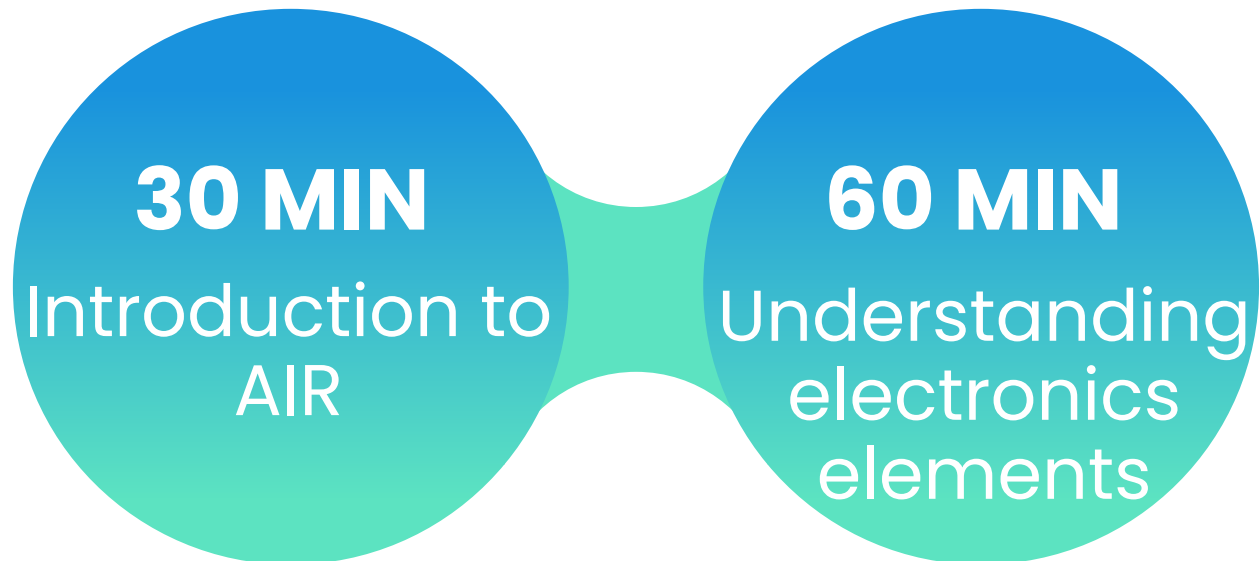
BASICS



CONTROL



SOFTWARE IDE & HARDWARE



LEDS

10 MIN

Fading of
LEDS

10 MIN

Circling of
LEDS

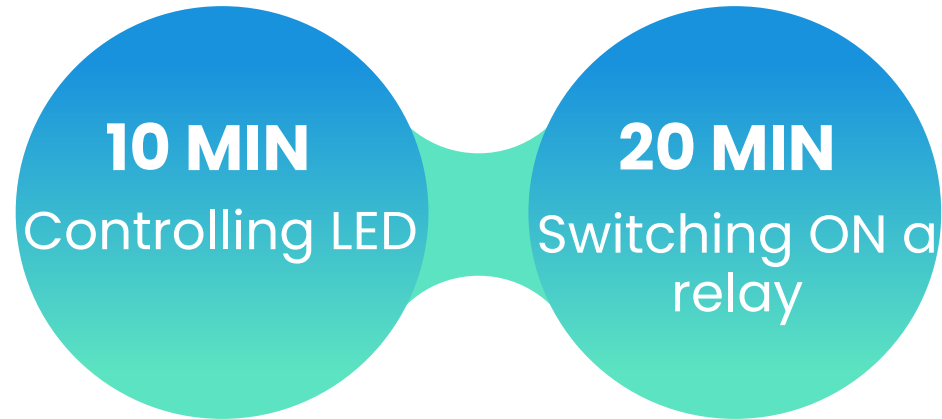
20 MIN

Blinking of
LEDS

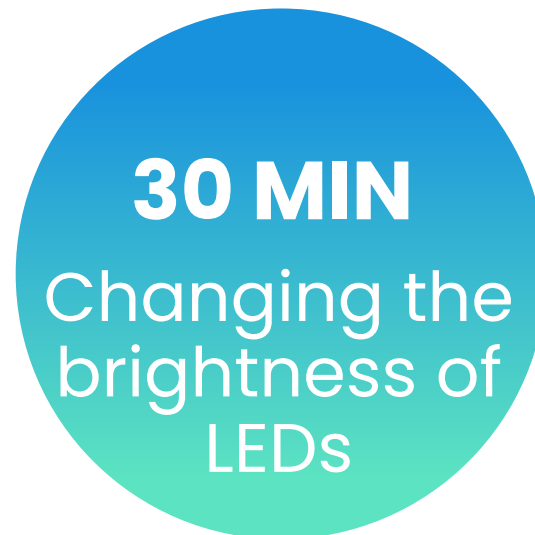
30 MIN

Traffic light
system

DIGITAL INPUTS



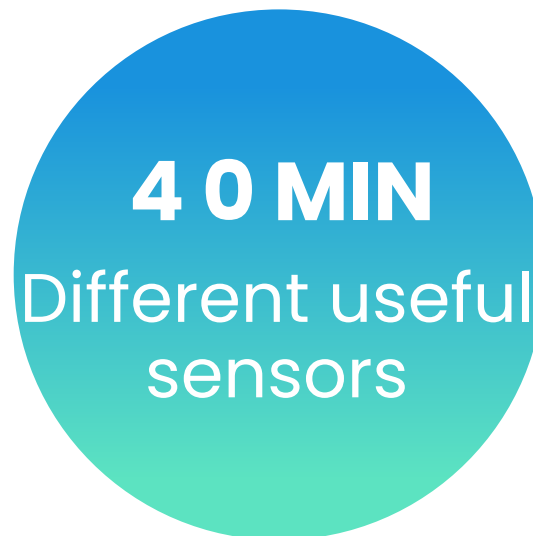
ANALOG INPUTS



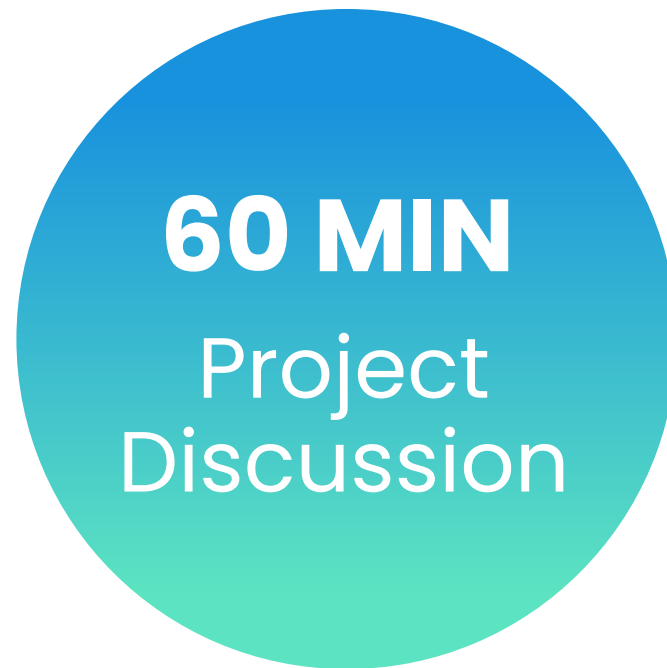
SERVO MOTORS



SENSORS



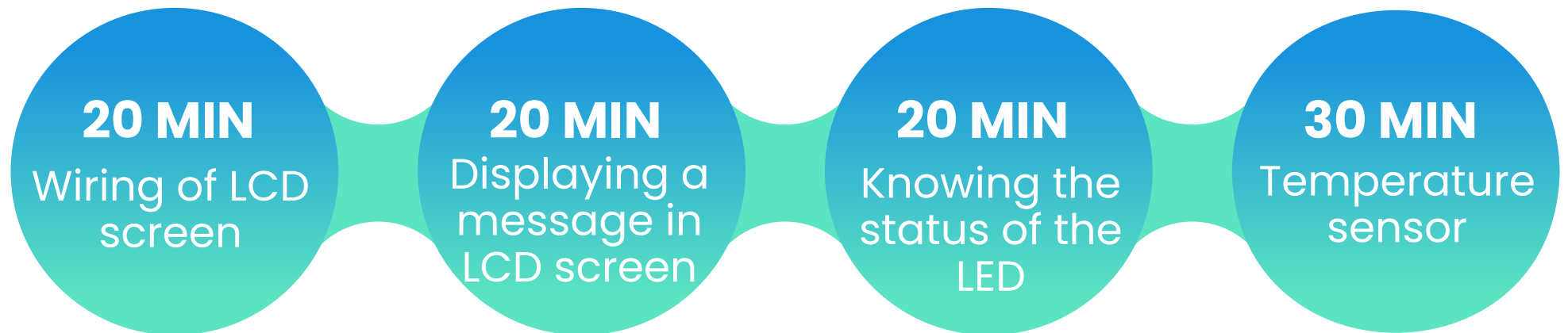
PROJECT DISCUSSION



60 MIN

Project
Discussion

LCD DISPLAYS



PROJECT-1

45 MIN
Attendance
System

PROJECT-2

45 MIN
Obstacle
Detection
Robot

PROJECT-3

45 MIN
Automation
System

COURSE HIGHLIGHTS

1 LEARN BY DOING WITH 2 HOUR SESSIONS.

2 BUILD PROJECTS FROM BASIC TO ADVANCED ROBOTICS.

3 UNDERSTAND THE WORKING OF ROBOTIC SYSTEMS.

4 PROGRAM YOUR ROBOTS USING C++,PYTHON PROGRAMMING.

HARDWARE

AIR DEVELOPMENT BOARD -1
USB CABLE -1
L239D MOTOR DRIVER
DC MOTORS - 4
WHEELS FOR MOTORS - 4
IR SENSORS - 4
IR REMOTE -1
CHASSIS - 1
LCD DISPLAY - 1
SERVO -1
KEYPAD MATRIX -1
ULTRASONIC SENSOR - 1
MINI BREAD BOARD -1
JUMPER WIRE M-F - 20 PSC
JUMPER WIRE F-F - 20 PSC
RC522-RFID SENSOR
Relay 2 PSC (5 Volt)
OTHER MISCELLANEOUS ITEMS

TERMS & CONDITIONS

- 1 All the above components would be provided during the program to participants in groups of 5 but would be taken back at the end.
- 2 Participants registering in groups of 5 will get take-home kit for free. Take-home kit consists of all the above items excluding the items marked with.



ELIGIBILITY

YOU ARE
PURSUING 8TH
OR ABOVE

YOU WANT TO GET
CERTIFIED TRAINING
WITH SPECIALIZATION
IN ROBOTICS

WORKSHOP DETAILS

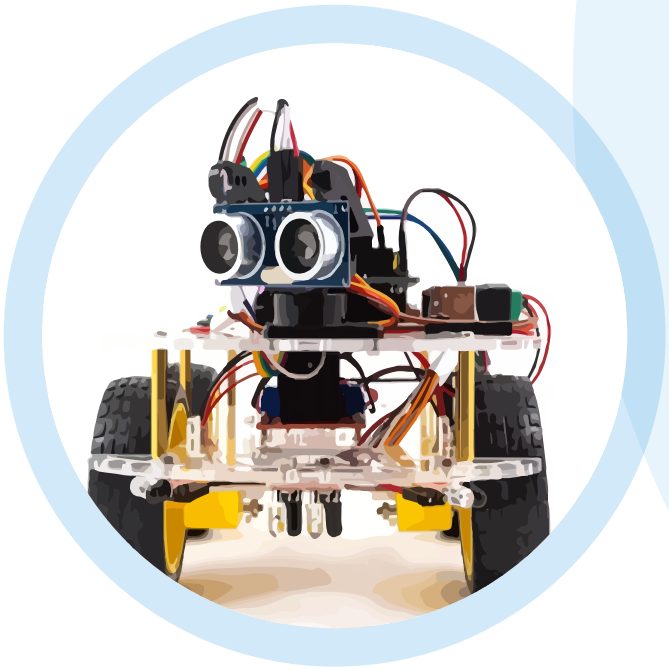
In the workshop students will learn about basics and advance concepts of Robotics and Embedded systems. Students will be given a robotic kit in a group and they will be practically building a small robotic Project. They will learn how to make a wired and wireless remote controlled robotic Project. After the workshop they will compete with other students with the robot they made themselves and will get a chance to participate in the future robotics competition.

REQUIREMENT DETAILS

1. Seminar hall/classroom having enough capacity to conduct hands-on-session for all Participants minimum of 20-50 students.
2. One Laptop/Computer System in group of 3-5 students.
3. Two wireless mikes (microphones) will be required.
4. Projector/ Screen along with black/ white board for teaching and presentation purposes.
5. One small stereo jack cord to connect in laptop for its sound system.

Classroom vs Online

S.NO	FEATURES	CLASSROOM TRAINING	ONLINE PROJECT BASED COURSE
1	Kit	Price With Kit	Will be dispatched to you in 24 Hours
2	Doubt Clarification	1 trainer to 40 students	Personal 1-to-1 session (Video/Chat) with our experts
3	Duration	40 Hrs Fixed	40 Hrs at your own pace (Complete within 30 days)
4	Venue	Fixed	Anywhere as per your convenience
5	Additional cost for student	Travel, Accommodation to reach the venue	No additional costs
6	Refund	Only before training program starts	Anytime if you don't like the course
7	Module Size	2 hour lecture	3 min videos which will allow you to take breaks
8	Certification	Upon Completion	Upon Completion
9	Price Without Kit	₹ 2999 Per Member	₹ 1999 Per Member
10	Price With Kit	₹ 8999 Per Member	₹ 5999 Per Member



**OBSTACLE
DETECTION**



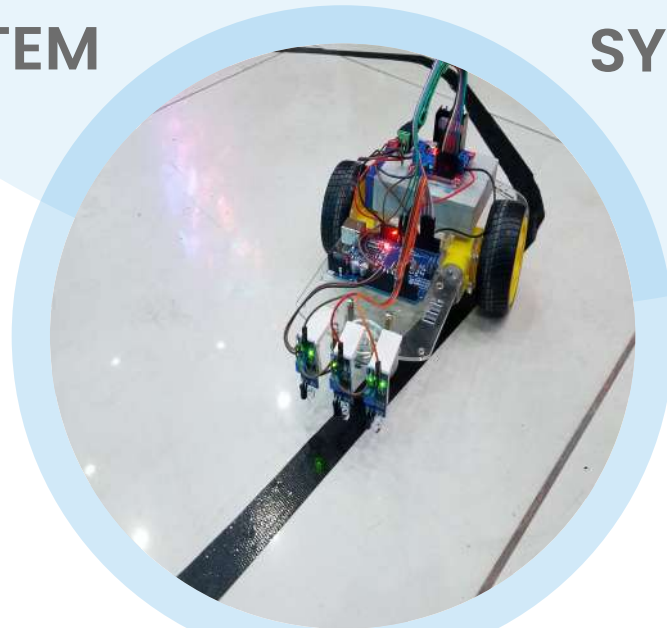
**HOME AUTOMATION
SYSTEM**



**BOOM BARRIER
SYSTEM**



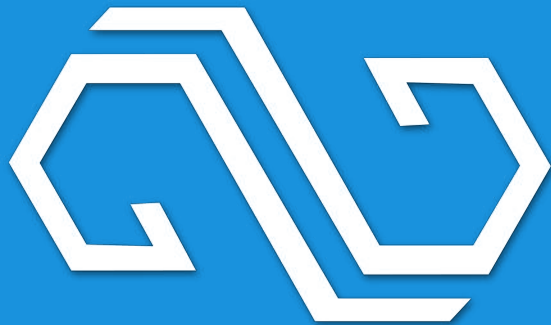
TRAFFIC LIGHT SYSTEM



LINE FOLLOWER ROBOT

THANK YOU

We ensure that you will find our initiative extremely beneficial for your students. If you have any queries kindly get back to us. We are looking forward to a quick and positive response from you and a long term association with your esteemed institution.



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