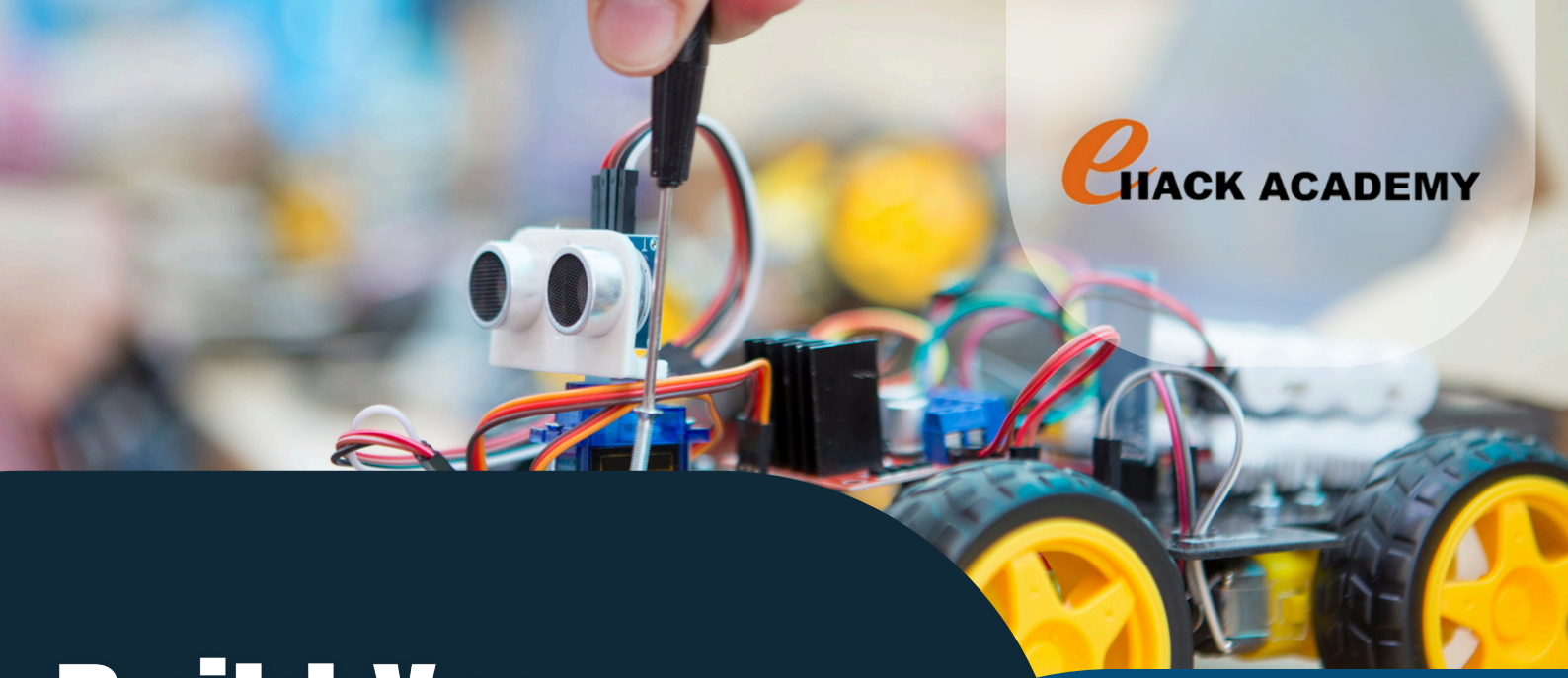
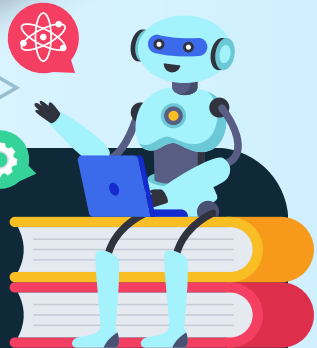


HACK ACADEMY

Build Your First Robot

Robotics for everyone

- Sensors and Actuators
- Robotics
- Line Following
- Obstacle Avoidance
- Bluetooth Control
- IoT Enhanced Robot
- AI-Integrated Robot



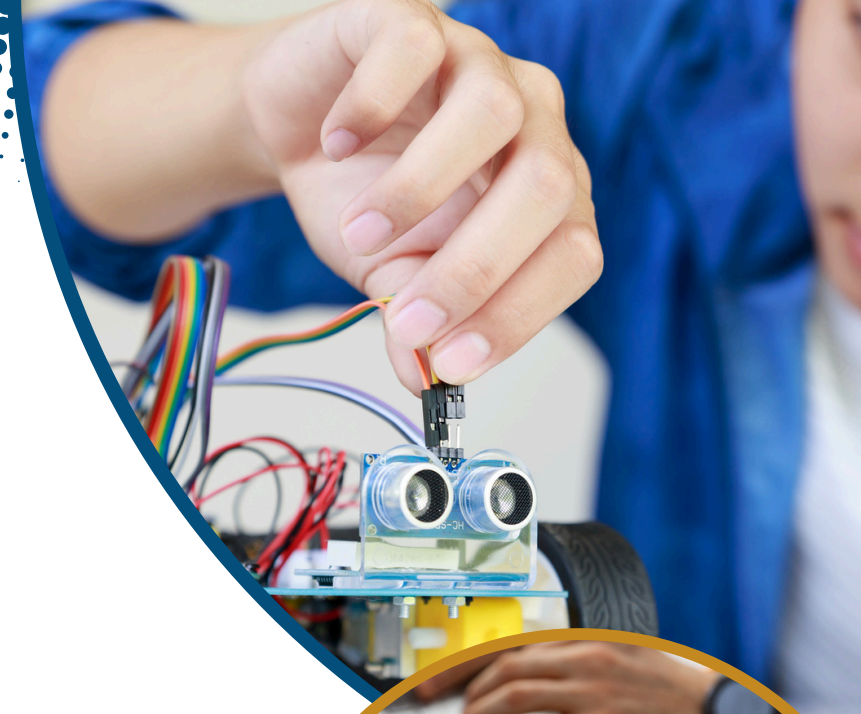
Live Sessions

Lifetime Access to Learning Management System (LMS)

Certificate of Completion

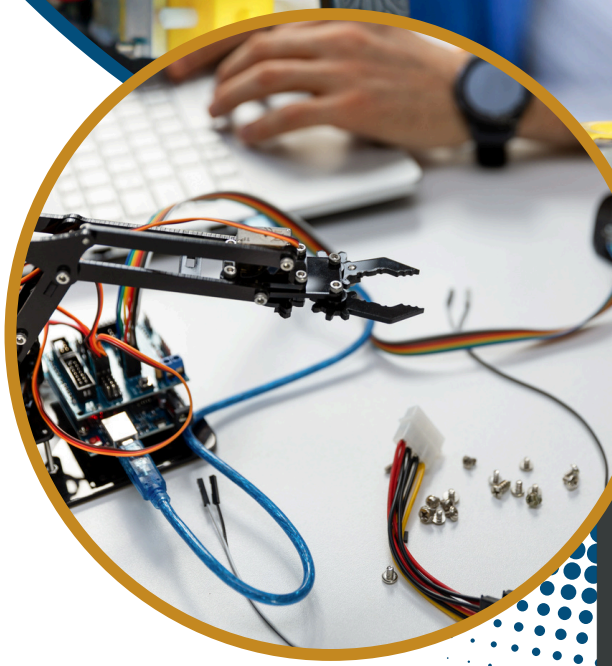
eHACK ACADEMY

COURSE OVERVIEW



WHAT YOU'LL LEARN:

1. **INTRODUCTION TO ROBOTICS**
   Understanding the basics of robotics and its applications
2. **BASIC ELECTRONICS AND COMPONENTS**
   Gaining knowledge about sensors, actuators, and simple circuits
3. **WHEELED ROBOT CONTROL**
   Learning different methods to control wheeled robots
4. **CONTROL SYSTEMS**
   Exploring the fundamentals of control systems in robotics
5. **INTERNET OF THINGS(IOT) INTEGRATION**
   Applying IoT concepts to enhance robotic functionalities
6. **AI IN ROBOTICS**
   Understanding how AI can be used to make robots smarter & more autonomous



ELGIBILITY

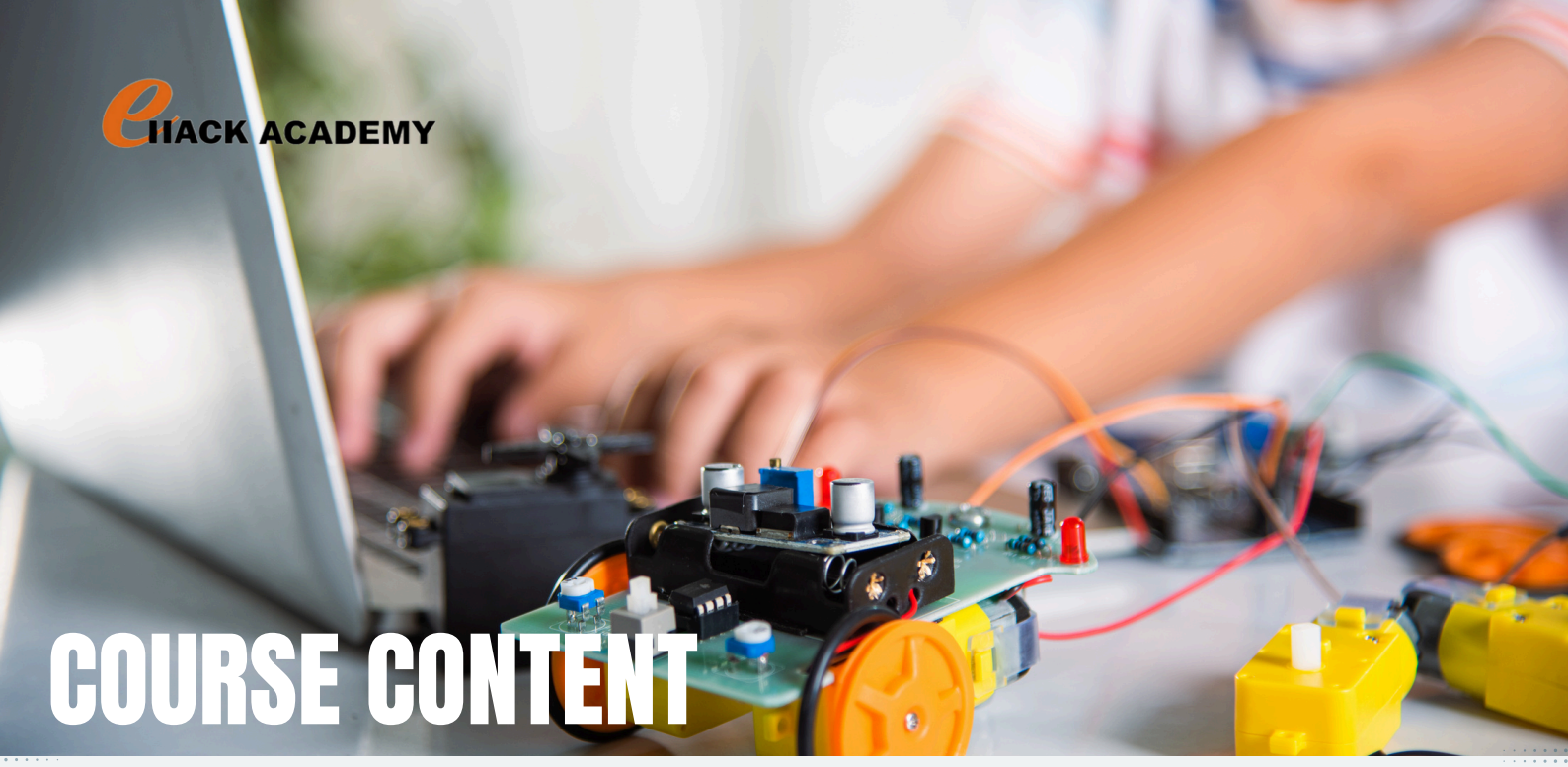
NO PRIOR PROGRAMMING EXPERIENCE NEEDED

Perfect for individuals with any background.

BASIC COMPUTER SKILLS

Ability to install software and follow instructions.

EHACK ACADEMY



COURSE CONTENT

Introduction
Overview of the course and its objectives.

Basic Electronics & Circuit Simulation
Learning to simulate and understand simple electronic circuits

Introduction to Robotics Kit
Familiarizing with the components of the robotics kit

Building a Roach Bot
Step-by-step guide to constructing your first simple robot

Obstacle Avoidance Robot
Creating a robot that can navigate around obstacles autonomously.

Line Follower Robot
Developing a robot that follows a path using sensors.

Bluetooth Controlled Robot
Building and controlling a robot via Bluetooth.

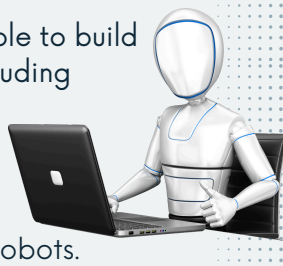
IoT & Robotics
Integrating IoT with your robots for enhanced functionality.

AI in Robotics
Understanding how AI can be used to make robots smarter & more autonomous.

Course Description

Embark on an exciting journey into the world of robotics! This course takes you from the fundamentals of electronics and programming to building your very own robots. Over the past decade, robotics has transitioned from research labs to everyday applications, including household chores like cleaning. Learning robotics is an excellent investment for your future, opening doors to various career opportunities. We'll start with basic electronics and programming, and gradually advance to robot motion, control systems, IoT integration and AI applications. These skills are highly sought after in today's job market.

By the end of this course, you'll be able to build several types of wheeled robots, including



- Line Follower Robot
- Obstacle Avoidance Robot
- Bluetooth, IoT & AI Controlled Robots.

To follow along with the practical aspects of this course, you'll need a robotics kit

WHO SHOULD ENROLL:

- **BEGINNERS:** Ideal for anyone eager to learn the basics of Robotics & build their own robots.
- **INTERMEDIATES:** Those with some experience in electronics or programming looking to advance their skills.
- **ADVANCED LEARNERS:** Individuals who want to delve deeper into robotics, IoT & AI.

own robot

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