



NEXIOT LK PRESENTS

ARDUINO FOR BEGINNERS

From your very first circuit to a complete project you built yourself

12 Weeks

3-month programme

2 Hours / Week

One session per week

Beginner Level

No experience needed

Hands-On

Build every single week

Limited seats per batch · Enroll now · info@nexiot.lk



WHY NEXIOT LK

Learn by Building, Not Just Watching

Most beginners quit electronics because they get stuck reading theory with nothing to show for it. This course flips that around — every single week, you leave with a circuit that works and code that you wrote yourself. By the end of three months, you won't just understand Arduino. You'll have built one.



100% Hands-On

Every class ends with a working circuit or working code — never just slides.



Beginner-Friendly Pace

No prior electronics or coding background needed. We start from absolute zero and build up, week by week.



Real Projects, Real Skills

From a blinking LED in Week 1 to a complete, presented system in Week 12 — every project builds on the last.



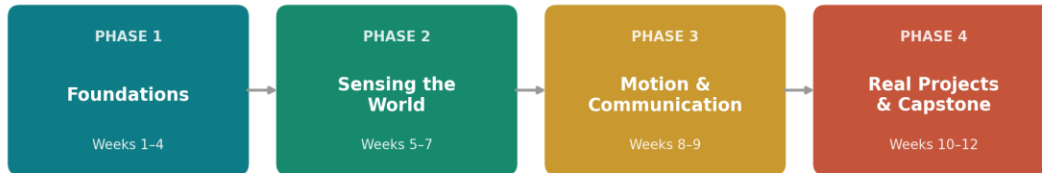
Small, Mentor-Led Batches

Personal guidance at every step, so no one gets left behind when the circuits get more complex.

THE ROADMAP

Your 12-Week Journey

The course is structured in four progressive phases. Each one builds the skills and confidence you need for the next — by the time you reach the capstone, you'll be designing systems from scratch.



Phase	Focus	You'll Learn	Projects
PHASE 1 Weeks 1–4	Foundations	Arduino basics, electronics fundamentals (voltage, current, resistance), programming logic, loops & conditionals	<i>Blink LED · Traffic Light · Electronic Dice · Password Lock</i>
PHASE 2 Weeks 5–7	Sensing the World	Analog & digital sensors, reading real-world data, displays (LCD, OLED, 7-segment)	<i>Smart Light · Motion Alarm · Distance Meter · Digital Thermometer</i>
PHASE 3 Weeks 8–9	Motion & Communication	Servo/DC/stepper motors, motor drivers, buzzers & tone generation, serial communication	<i>Automatic Gate · Fan Controller · Alarm System · Melody Player</i>
PHASE 4 Weeks 10–12	Real Projects & Capstone	Full system design, circuit optimization, troubleshooting, documentation & presentation	<i>Smart Home Automation · Security System · Final Capstone Project</i>



PORTFOLIO

What You'll Be Able to Build

By graduation, you won't just have notes — you'll have a portfolio. Here are some of the real, working projects students build and take home:

Smart Home Light	Smart Dustbin	Digital Door Bell
Automatic Plant Watering	Electronic Voting Machine	Home Security System
Smart Water Tank Controller	Digital Weather Station	Visitor Counter
Smart Greenhouse	Smart Parking System	Digital Attendance System
Arduino Calculator	Smart Fire Alarm	Your Own Final Project

Every student chooses and presents their own mini project in Week 11, then designs a full original system from scratch for the Week 12 final showcase — complete with circuit, code, live demo, and documentation.



THE TOOLKIT

Components & Skills You'll Master

You'll get hands-on time with a full range of real electronic components and sensors — the same building blocks used in professional embedded systems and IoT products.

Basic Components	Sensors	Output Devices
• Breadboard & jumper wires • Resistors & capacitors • LEDs, buttons, diodes • Potentiometers, buzzers	• LDR, DHT11/DHT22 • Ultrasonic, PIR, IR • Flame, rain, soil moisture • Touch & gas sensors	• LCD 16x2 & I2C LCD • OLED, 7-segment display • Servo, DC & stepper motors • Relay module

BEYOND HARDWARE

Programming Concepts You'll Learn

Programming Basics	Logic & Control	Communication
• Variables & data types • Operators & functions • Comments & code organization • Debugging your code	• Conditional statements • for / while loops • Arrays (basic) • Building reusable functions	• Serial communication • Reading sensor libraries • UART basics • Working with real data



IS THIS YOU?

Who Should Join

- School & university students curious about electronics and programming
- Hobbyists who want to finally build the gadgets they've been dreaming up
- Anyone exploring a future in embedded systems, robotics, or IoT
- Parents looking for a serious, hands-on STEM programme for their kids

No prior experience with electronics or coding is required — just curiosity and a willingness to build.

THE DETAILS

Course Information

Duration	12 Weeks (3 Months)
Format	Weekly 2-hour sessions — theory + hands-on practical
Level	Absolute beginner — no experience required
Batch Size	Small, mentor-led groups
Includes	Weekly lecture notes, guided practicals, and a final project showcase
Fees & Schedule	Contact us for current batch dates and pricing

Ready to build your first circuit?

Seats are limited each batch — reserve yours today.

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