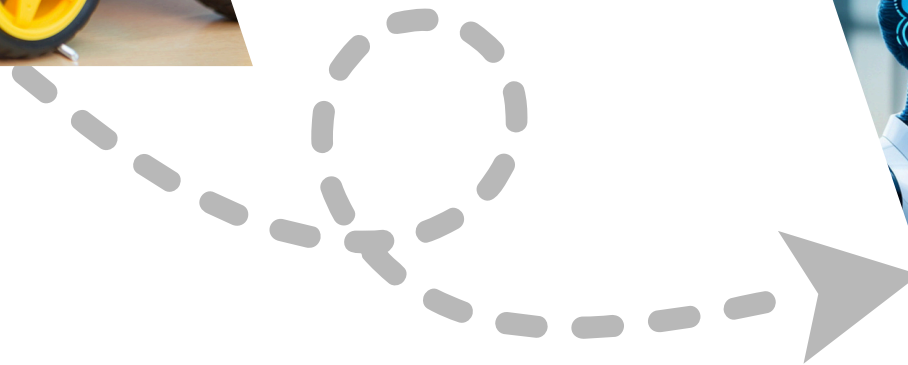


robopandit™

2026

LEARN ROBOTICS & AI. BUILD STRONG  
**Practical Skills for  
the Digital Era.**





# The Opportunity

Marks may get them a degree... Skills will get them a future.

44% of core  
job skills will  
change by  
2027

-World Economic  
Forum

India will require  
1 million+ AI  
professionals

-As per  
NASSCOM

AI + Robotics =  
The Most  
Powerful Skill  
Combination

-Robopandit

*“ Practical Skills for the Digital Era.”*



# The Problem

Current schooling system face **three major issues:**

01

Too theoretical,  
not practical



02

Low engagement and  
completion rates



03

No clear job pathway  
after course completion





# Our Goal

Learn.Apply.Innovate



100% Engagement, Not  
Passive Learning



100% Skill Development,  
Not Just Knowledge



100% Future Readiness



# The Curriculum

AGE: 10+



AGE: 13+



AGE:16+



AGE: 16+



Agile evaluation after each cohort cycle.



# The Curriculum

Foundation Program (Age 13+, 30 Hours)



A hands-on journey where students explore Robotics, AI, and IoT by building, coding, and creating real-world projects—turning curiosity into practical skills.

Build and program basic robots and smart systems

Understand how AI and IoT work in real life

Develop problem-solving, logic, and creativity skills



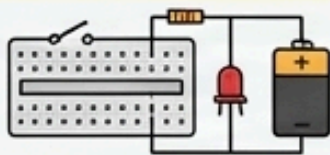
# The Curriculum

Foundation Program (Age 13+, 30 Hours)

## INTRODUCTION TO ELECTRONICS & INTERFACING (Lessons 0-2)

Lesson 0

### Basic Electronics & RFID Lock



**Projects:** Single/Parallel circuits, V,I,R, RFID Lock



**Outcomes:** Understanding V,I,R and RFID, Interfacing Sensors, Embedded Systems

Lesson 1

### IoT Safety & GPS/GSM



**Projects:** Women Safety Alert System



**Outcomes:** GPS tracking, GSM communication, Embedded system integration

Lesson 2

### Smart Head Protection



**Projects:** Fall Detection with Accelerometer



**Outcomes:** Motion data processing, safety alerts



## SENSORS & INTERFACING

Lesson 3

Data Science

### AI Health Monitoring



**Projects:** SpO<sub>2</sub> and Temperature Monitoring



**Outcomes:** Health data acquisition, Data Science basics, AI predictions

Data Science

### AI Plant Watering Assistant



#### AI Plant Watering Assistant

**Projects:** Automated plant care  
**Outcomes:** Data Science decision-making, pattern analysis, Automation



#### Smart Energy Consumption Analyzer

**Projects:** Energy data visualization  
**Outcomes:** Data science analysis, optimization strategies





# The Curriculum

Foundation Program (Age 10+, 30 Hours)

## - PART 1 (Lessons 3-7)

CV

### Drowsiness Detection



**Projects:** Real-time blink monitoring



**Outcomes:** Facial feature detection, Computer Vision

CV

Lesson 6

### Emotion-Based Robot Face



**Projects:** Recognition of human expressions



**Outcomes:** Face detection, real-time image processing, secure access

Lesson 7

### Gesture control Robot



**Projects:** Voice controlled robot demo



**Outcomes:** Track and interpret gestures, wireless robot control

## ADVANCED AI SYSTEMS (Lessons 9-11)

Lesson 9

### Voice Control Robot



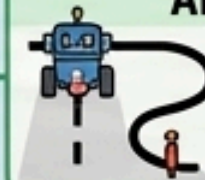
**Projects:** Voice-controlled robot commands

**Outcomes:** NLP basics, speech recognition, HMI



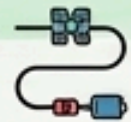
Lesson 10

### AI Line following Robot



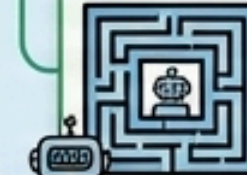
**Projects:** Adaptive control navigation

**Outcomes:** Path detection with sensors, PID control, adaptive algorithms



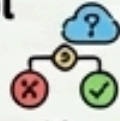
Lesson 11

### AI Maze solving Robot



**Projects:** Decision-making pathfinding

**Outcomes:** Maze navigation algorithms, decision-making, mapping





# The Curriculum

Foundation Program (Age 10+, 30 Hours)

**INNOVATION & CAPSTONE PROJECT (Lesson 12)**

**Have an Idea?**  
**Projects:** Idea to Prototype  
**Outcomes:** Develop your own innovative solution using AI and Robotics

**COURSE LOGISTICS & SUMMARY**

	<b>Duration:</b> 30 Hours
	<b>Target Age:</b> 13+
	<b>Completion Certificate</b>

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