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EDUCATIONAL EXPERIENCE [USA] ✓

BRAINOBOTS

ADVANCED ROBOTICS PROGRAMME

FOR 10-16 YRS KIDS

1) FUNDAMENTALS OF ROBOTICS

- 🤖 Electrical & Electronic Components
- 🤖 Component Testings
- 🤖 Circuit Designs
- 🤖 Series and Parallel Circuits
- 🤖 Microcontroller(Arduino)
- 🤖 Digital & Analog Interface
- 🤖 Sensors(LDR, PIR)
- 🤖 Graphical / Visual Programming

3) AUTONOMOUS ROBOTS

- 🤖 Perceptions [Sensors]
- 🤖 Decision (Algorithm)
- 🤖 Actuation (Motor Movements)
- 🤖 Coordination System
- 🤖 Positioning Navigation & Energy Management

5) WIRELESS TECHNOLOGY

- 🤖 Interfacing Android Device and Robot
- 🤖 Wireless & Range
- 🤖 Arduino - WiFi Interface
- 🤖 Arduino - Bluetooth Interface
- 🤖 Master and Slave Configuration

7) PYTHON & DATA SCIENCE

- 🤖 Inputting and Graphics
- 🤖 Object Oriented Programming
- 🤖 Data Science Fundamentals
- 🤖 Data Processing & Data Analysis
- 🤖 Data Visualization

9) 3D MODELLING AND PRINTING

- 🤖 Tolerance & Maximum
- 🤖 Size and Colors & Infill
- 🤖 Overhang & bridging and Supports
- 🤖 XYZ coordinates, polygon & Slicing

2) EMBEDDED SYSTEMS

- 🤖 Input Device (Keypad)
- 🤖 Output Device (LCD , Seven Segment)
- 🤖 Voltage Regulation
- 🤖 Interfacing Multiple Sensors
- 🤖 H -Bridge (1298N) & Robot Movement
- 🤖 Graphical / Visual programming

4) PROGRAMMING TECHNIQUES

- 🤖 Integrated Development Environment
- 🤖 Compiler & programming Structure
- 🤖 Variables & Conditional Statement
- 🤖 Loop, Functions & Package Files

6) INTERNET OF THINGS

- 🤖 Perception Layer
- 🤖 Network Layer
- 🤖 Application Layer (User Interface)
- 🤖 Data Management Layer (Database)

8) ARTIFICIAL INTELLIGENCE

- 🤖 Machine Learning
- 🤖 Supervised & Unsupervised Learning
- 🤖 Models & Algorithm
- 🤖 Dataset and data preprocessing
- 🤖 Training & Testing Model
- 🤖 Model Validation & Evaluation

10) AERO MODELLING AND DRONES

- 🤖 Flying Mechanism (Yaw, Pitch and Roll)
- 🤖 Cloud Enabled
- 🤖 Artificial Intelligence
- 🤖 Mobile and Web Application support

TO ENROLL YOUR KIDS & FOR MORE DETAILS



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