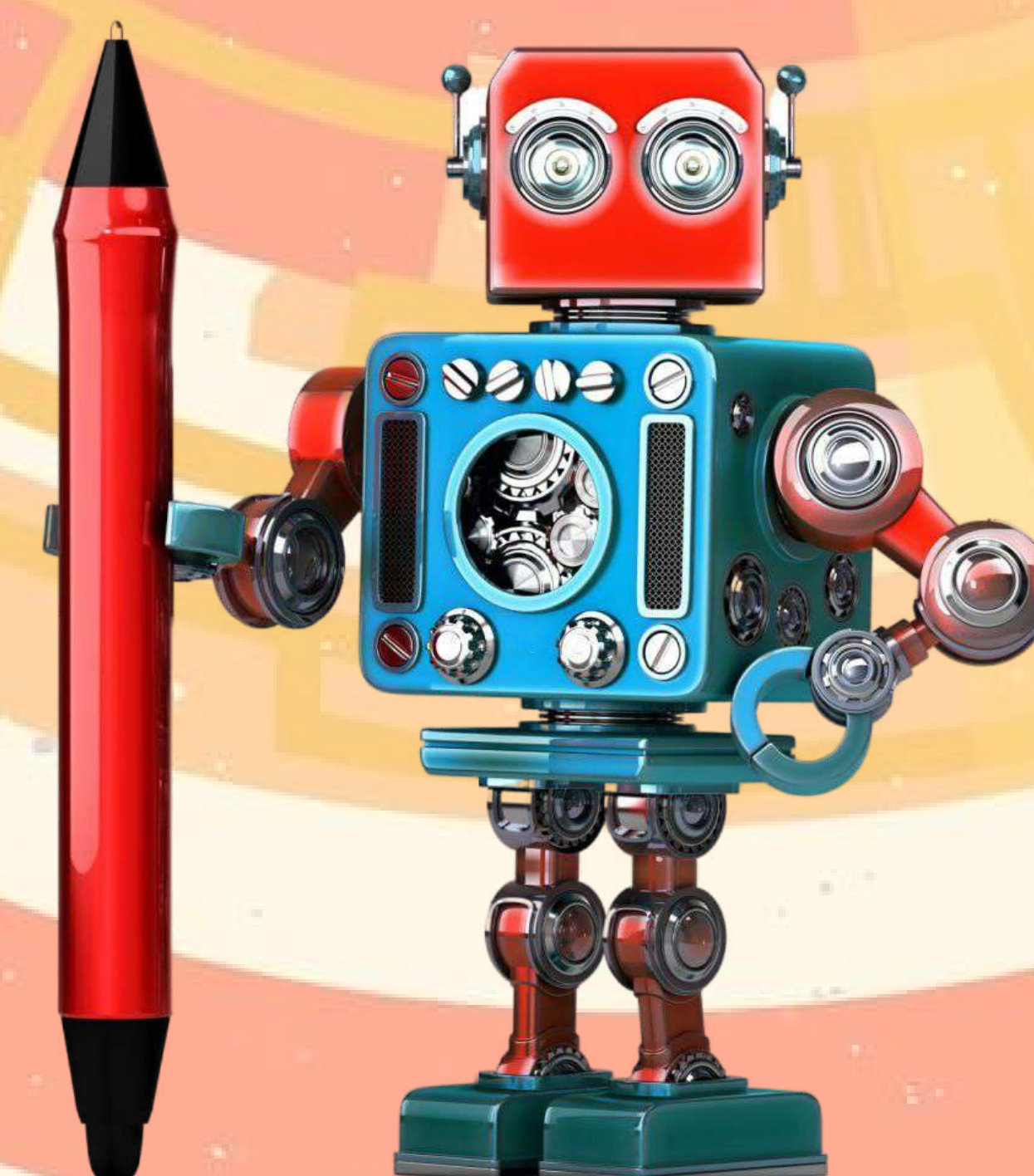




ROBOTICS SYLLABUS

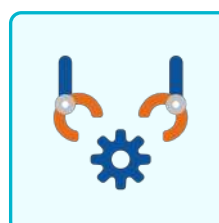


School Robotics & Coding - Advanced

Sessions 1 - 24

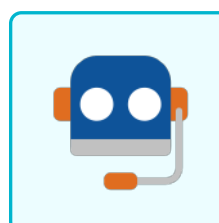
1 Robotics Mechanism

- ✓ Electronic
- ✓ Algorithms
- ✓ Mechanism
- ✓ Functioning



7 Robotics Communication

- ✓ Serial Interface
- ✓ Data Exchange
- ✓ Connecting h/w
- ✓ Transceive Modelling



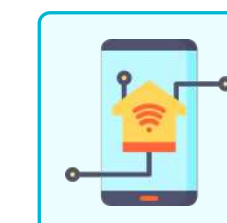
13 Unboxing Advanced Kit

- ✓ Unboxing kit and understand various modules and sections in the kit



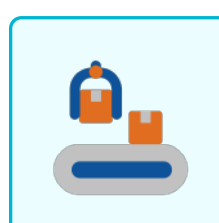
19 Home Automation Design

- ✓ Design a home automation project and control home applications smartly



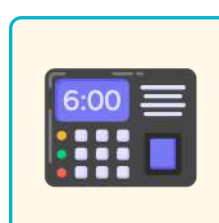
2 Robotics Components

- ✓ Robotics Parts
- ✓ Protocols
- ✓ Interfaces
- ✓ Specifications



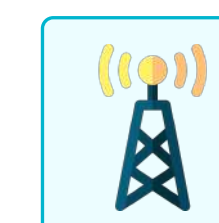
8 Student Attendance System

- ✓ Design digital students attendance system to replace manual attendance



14 Wireless Communication

- ✓ Learning & interfacing various wireless modules such as WIFI, Bluetooth etc.



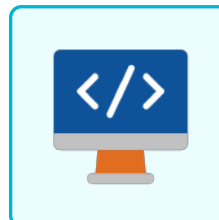
20 Door Security System

- ✓ Implement door security with the help of automation



3 Robotics Programming

- ✓ Programming
- ✓ Logics
- ✓ Algorithm
- ✓ Programming Models



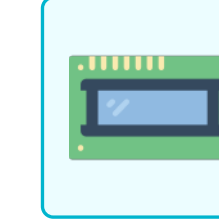
9 Traffic Lights Designing

- ✓ Design traffic light and understand its working with logic



15 LCD Interfacing

- ✓ Interface LCD and check the display mechanism



21 IOT Interfacing

- ✓ Design IOT mechanism for applications



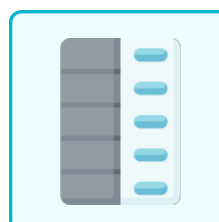
4 Robotics Hardware

- ✓ Mechanism
- ✓ Functioning
- ✓ Interface
- ✓ Logics



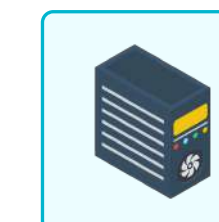
10 Electronic Voting Machine

- ✓ Design electronic voting machine and understand the voting mechanism



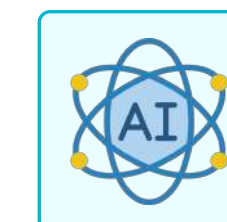
16 Relay Interfacing

- ✓ Interface relay and check various auto switching operations



22 AI Interfacing

- ✓ Implement AI interfaces to make automation products smart



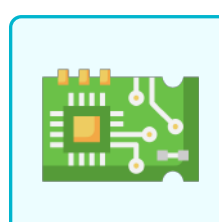
5 Robotics Applications

- ✓ Robot Basics
- ✓ Domain Uses
- ✓ Applications
- ✓ Requirement Analysis



11 Digital Notice Board Design

- ✓ Design a digital notice board and display message remotely



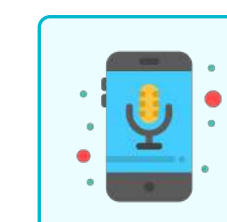
17 Wi Fi Interfacing

- ✓ Interface WIFI module and design IOT operations



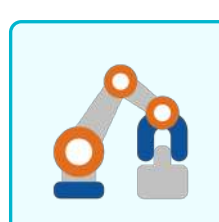
23 Voice Controlled Apps

- ✓ Design and control automation application using voice commands



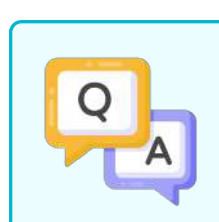
6 Robotics Simulation

- ✓ Model Design
- ✓ Error Simulation
- ✓ Testing s/w
- ✓ Virtual Model Designing



12 Quiz Competition Design

- ✓ Design quiz competition and perform fastest finger first



18 Bluetooth Interfacing

- ✓ Interface bluetooth module and design wireless bluetooth technology control applications



24 Skillovation Research

- ✓ Learn many advance and live projects with skillovation

