# KIDS WORLD SCHOOL

**SESSION - 2025 - 26**

ANNUAL CURRICULUM PLANNER

**SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS**

CLASS –**VI**

| MONTH | WEEKS | TOPIC | METHODOLOGY | ACTIVITY | LEARNING OUTCOMES |
|---|---|---|---|---|---|
| JULY | 1st & 2nd | Traffic Light System - Simulation | Theory/Practical Circular activity | Students simulate signal lights using LEDs to understand sequencing logic. | Learning automation |
| | 3rd & 4th | Traffic Light System - Real World | Theory/Practical Circular activity | Hands-on with wires, resistors, and Arduino to make a working traffic light. | Learning automation |
| AUGUST | 1st | Motion-Activated Light Automation - Simulation | Theory/Practical Circular activity | Simulate automation of light based on motion sensing (PIR). | Learning automation |
| | 2nd | Motion-Activated Light Automation - Real World | Theory/Practical Circular activity | Connect PIR sensor to real circuit for automatic light control. | Learning automation |
| | 3rd & 4th | Plant Watering Alarm Automation - Simulation | Theory/Practical Circular activity | Use virtual moisture sensor to trigger buzzer when soil is dry. | Learning automation |
| SEPTEMBER | 1st & 2nd | Plant Watering Alarm Automation - Real World | Theory/Practical Circular activity | Hands-on model for watering alert using real moisture sensor. | Learning automation |
| | 3rd | Temperature Measuring Device - Simulation | Theory/Practical Circular activity | Simulate a temperature sensor circuit to display temperature values. | Learning automation |
| | 4th | Temperature Measuring Device - Real World | Theory/Practical Circular activity | Build a working temperature display using sensor and LCD. | Learning automation |
| OCTOBER | 1st & 2nd | Smart Dustbin - Simulation | Theory/Practical Circular activity | Simulate a dustbin that opens lid when hand is near. | Learning automation |
| | 3rd & 4th | Smart Dustbin - Real World | Theory/Practical Circular activity | Assemble actual ultrasonic sensor-based auto-opening dustbin. | Learning automation |
| NOVEMBER | 1st & 2nd | AI - Plants or Animal | Theory/Practical Circular activity | Train/test AI model to classify plant vs. animal images. | How to build AI projects |
| | 3rd | AI-based Sound | Theory/Practical Circular activity | Use ML model to identify and label | How to build AI projects |

| | | | | | |
|---|---|---|---|---|---|
| | | Recognition | | different types of sounds. | |
| | **4th** | How to Make Things Fly | Theory/Practical Circular activity | Explore thrust, drag, lift using simple paper airplane/demos. | Learning basics of flying |
| **DECEMBER** | **1st & 2nd** | Introduction to Drone | Theory/Practical Circular activity | Learn about drone components and simulation flying. | Learning about drone components and simulation flying. |
| | **3rd & 4th** | Introduction to Rocket | Theory/Practical Circular activity | Learn rocket structure and how fuel propels rockets. | Learning rocket structure and how fuel propels rockets. |
| **JANUARY** | **1st & 2nd** | Introduction to Airplane | Theory/Practical Circular activity | Understand lift, wings, and engine role in airplane flight. | Design and flight principle of Airplane |
| | **3rd & 4th** | Build your personalised Website - HTML | Theory/Practical Circular activity | Create a basic personal website using HTML tags. | Learning Website Development |
| **FEBRUARY** | **1st & 2nd** | Build your personalised Website - CSS | Theory/Practical Circular activity | Apply styling and layout to personal website using CSS. | Learning Website Development |
| | **3rd & 4th** | Currency Converter App | Theory/Practical Circular activity | Design a working app that converts one currency to another dynamically. | Learning app.development |