

Workshop Details (THE STEM GUY) www.thestemguy.info

Here is the updated schedule with the new time 10:30 AM - 12:00 PM:

Month	Date	Time
May	2025-05-03	10:30 AM - 12:00 PM
June	2025-06-07	10:30 AM - 12:00 PM
July	2025-07-05	10:30 AM - 12:00 PM
August	2025-08-02	10:30 AM - 12:00 PM
September	2025-09-06	10:30 AM - 12:00 PM
October	2025-10-04	10:30 AM - 12:00 PM
November	2025-11-01	10:30 AM - 12:00 PM
December	2025-12-06	10:30 AM - 12:00 PM

Mode: In person only

Students need to carry anything: No required.

Computer Lab(kids hands-on) / Presentation lab with TV: I can carry My laptop , need HDMI connection and internet.

Teacher student ratio: 1:7

Age group: 6 to 12

*Projects:

- **LED Blinker** – A basic project where an LED blinks on and off using an Arduino.
- **Servo Rotator** – A servo motor rotates to different angles when a button is pressed.
- **Temperature Monitor** – Displays the temperature using a simple sensor like **DHT11** and an LED indicator.
- **LCD Name Tag** – Displays the kid's name on a small **16x2 LCD screen** using Arduino.
- **Touch Sensor Light** – Turns on an LED when a touch sensor is activated.
- **Buzzer Sound Alert** – A piezo buzzer makes different sounds when a button is pressed.
- **Rainbow LED with Button** – A **WS2812 RGB LED** changes colors when a button is pressed.
- **Obstacle Detector** – A simple **IR sensor** detects an object and turns on an LED as an alert.

Note: Project ideas/ name is for generic purpose only , but it can be changed based on students interest.

Each project will be implemented on real world objects. Like led on car ,servo as hand of toys , display as a name tag

Benefits:

These **Arduino workshops** offer **hands-on learning** experiences that enhance **kids' creativity, problem-solving, and logical thinking**. Through fun projects like LED blinkers and servo motors, children develop an **early understanding of electronics, coding, and robotics**. These activities **improve fine motor skills, foster curiosity in STEM**, and build confidence as they see their ideas come to life. Plus, working on small Arduino projects **enhances patience, teamwork, and innovation**, preparing them for future tech-driven careers in a playful way!