ITINERARY OF WORKSHOP

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| **Day** | **Experiments** |
| **Day 1** | 1. Arduino basics   * Introduction to Arduino and embedded systems * Introduction to Arduino IDE * Getting started with Arduino IDE * Intro to Arduino syntax   ,Datatypes ,Variables ,Functions LED exercises   * Blinking of led * LED with pushbutton * LED with potentiometer * LED traffic light simulation |
| **Day 2** | 7 Segment exercises   * Display numbers * Countdown timer with push button   Introduction to LCD display and interfacing it with Arduino  Temperature and humidity sensor(DHT-11)   * Display temp and humidity on screen   Ultrasonic distance sensor(HC-SR04)   * Parking assistant (distance btw car and obstacle) |
| **Day3** | * PIR motion sensor * Security system ––   TWO MAJOR PROJECTS   * Home automation using bluetooth module * Radar with servo motor   Assessment Test and Feedback    Closing Ceremony |