SENSORS AND ACTUATOR DEVICES LAB SYLLABUS

- 1. Hands-on with the Arduino Programming Environment (IDE) and the different Sensors and Actuators available with the Arduino Kit
- 2. Design a data logger with different types of sensors and learn various sensor calibration techniques
- 3. Design and implementation of Breath analyzer using temperature sensors
- 4. Design and implementation of Liquid Level Indicator using optical Sensors
- 5. Design and implementation of odometer prototype to sense speed of an automobile
- 6. Design and implementation of a prototype to monitor real-time tirepressure
- 7. Develop and validate a prototype for sensing PH and humidity parameters using polymer-based sensors
- 8. Design and demonstrate a water quality monitoring system
- 9. Demonstrate a simple parking system using ultrasonic sensors

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