**Department of Electrical Engineering and   
Computer Science**

**Faculty Member:** Dr. Shahzad Younis  **Dated:** 12/10/2022

**Semester:** 5th **Section:** BEE 12C

**EE-383:** **Instrumentation and Measurements**

Lab 5 Additional Task: X Sensor

Lab Instructor: Mr. Ali

Group Members

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Reg. No** | **Viva + Lab Performance (Individual)** | | **Analysis of data in Lab Report** | **Teamwork** | **Total** |
|  |  | **5+5 Marks** | | **5 Marks** | **5 Marks** | **20 Marks** |
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# Introduction

# Objectives

* Get familiar with Arduino and sensors
* Get familiar with interfacing a sensor in Arduino
* Understand the hardware of the microcontroller
* Create ideal simulations of real-life sensors
* Interface the

# Design

## Flowchart

## Proteus Simulation

Figure 5.2.1 Proteus Schematic

### Arduino Code

## Implementation

Figure 5.3.1 Hardware Implementation

## Hardware Functioning

# Conclusion

In this additional lab task.