

Sr. No.	Practical Definition
1.	Study the functionality of Arduino Uno board and Arduino IDE 1. Installation of Arduino IDE with interface. (A) 2. Create a first program using Arduino IDE with Hardware Interface and without hardware interface. (A) 3. Demonstrate serial communication methods with Arduino. (A) 4. Write a program to perform Arithmetic operations. (A) 5. Write a program to determine whether a number is odd or even. (A) 6. Write a program to find the maximum number from 3 numbers. (A) 7. Write a program to print 1 to 10. (A) 8. Write a program to sum digits. (A) 9. Write a program to print a number in reverse order. (A) 10. Write a program to continuously print whether the number is even or odd using UDF. (A)
2.	Introduction to Basic Electrical concepts with serial and parallel communication 1. Use of basic electrical concepts. (A) 2. Create series and Parallel connections to calculate the readings of total resistance. (A)
3.	Digital Input of Arduino board with push button and switch 1. Blink an LED with Push Button using Arduino. (A) 2. Blink an 2 LED using Switch. (A)
4.	Digital Output of Arduino board with LED control 1. Blink an LED using Arduino. (A) 2. Blink an RGB LED using Arduino (All at a time). (A) 3. Perform a traffic light signal with Red, Yellow and Green LEDs. (A)