**Microcontroller Programming**

**ARM STM32F4 Microcontroller**

**Assignment**

1. Write an embedded C code to interface SPI based accelerometer to read X-axis, Y-axis and Z-axis values.

2. Write an embedded C code to interface I2C based temperature and relative humidity sensor. Calibrate the sensor to read exact temperature and relative humidity values.

3. Write a program to scan the user button using polling technique and blink blue LED on key press; blink Red LED if key is not pressed.