

# RASPBERRY PI MASTER CLASS

- + Day 1 - Overview of this course | Details about Raspberry Pi & its Application
- + Day 2 – Installing Operating System in Raspberry Pi | Basic Python Programming
- + Day 3 - Overview on Embedded Systems | Digital I/O with Raspberry Pi
- + Day 4 - Analog sensor interface using MCP3008 ADC | SPI Protocol
- + Day 5 - RFID based authentication system using Arduino | UART Protocol
- + Day 6 - Temperature & Humidity Detection & Alert using DHT11 Sensor
- + Day 7 - Water quality detection using PH Sensor | UART Protocol
- + Day 8 - Waterflow detection using Flow sensor | Pulse sensor | Interrupt
- + Day 9 - Message Transmission using MQTT & UDP Protocol
- + Day 10 - Sending Email Alert using SMTP Protocol

## WARRIORS WAY COACHING PROGRAM

- + Day 11 - Simple Message Chat using LCD Display using Raspberry Pi
- + Day 12 - Touch screen display Interface with Raspberry Pi
- + Day 13 - DC Motor Speed Control using TrimPot | DC Motor
- + Day 14 - Automatic Door lock system using PIR | Servo Motor & Stepper Motor
- + Day 15 - Smart Energy meter system | ADC | SPI Protocol
- + Day 16 - Industry Monitoring System using IoT | Cloud
- + Day 17 - Webpage design for appliance control | Webserver | HTTP
- + Day 18 - Mobile controlled appliance via Internet | Application
- + Day 19 - Video surveillance system using Webserver
- + Day 20 - Weather reporter system using Weather Cloud | Smart Umbrella
- + Day 21 - Interfacing USB Webcam | Pi Camera | Android Mobile camera with Raspberry Pi
- + Day 22 - Face Detection ,Tracking & Recognition using Raspberry Pi
- + Day 23 - Simple Book reader with OCR & Text to speech conversion using Raspberry Pi
- + Day 24 - Obstacle Avoidance Robot using Ultrasonic
- + Day 25 - Color Following Robot
- + Day 26 - Baby emotion recognition & Alert system | Music Play

## WARRIORS WAY COACHING PROGRAM

- + Day 27 - Blind assistance system for Object recognition | Deep Learning
- + Day 28 - Re-speaker 4 Mic array interface with Raspberry Pi
- + Day 29 - 360 Degree LIDAR Interface with Raspberry Pi | ROS
- + Day 30 - Brain Controlled Robot using Raspberry Pi & Brainsense

