

# EMBEDDED SYSTEM DESIGN & IOT

## WEEK 1

- + Day 1 - Introduction to Embedded System Design
- + Day 2 - Choosing the Right Processor and Embedded Product Life cycle
- + Day 3 - Challenges and Design Issues in Embedded Systems,
- + Day 4 - Introduction to Real-Time Concepts,
- + Day 5 - IoT Trends, IoT Architecture, IoT Applications, IoT Standards, and Protocols

## 8051 - WEEK 2

- + Day 6 - 8051 Architecture-Keil
- + Day 7 - Switch ,Relay,
- + Day 8 - UART,SPI
- + Day 9 - LCD,IIC
- + Day 10 - 8051 Mini Project-Bluetooth based Home automation



## ARM7 - WEEK 3

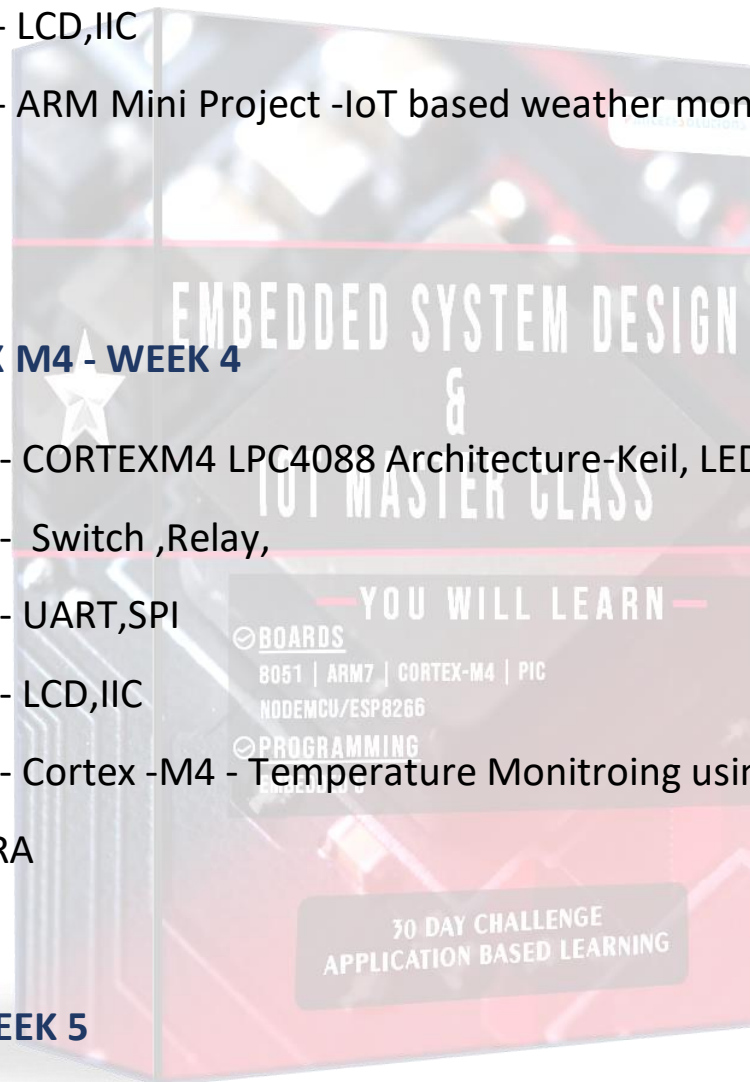
- + Day 11 - ARM Architecture-Keil, LED Blinking
- + Day 12 - Switch ,Relay,
- + Day 13 - UART,SPI
- + Day 14 - LCD,IIC
- + Day 15 - ARM Mini Project -IoT based weather monitoring system

## CORTEX M4 - WEEK 4

- + DAY 16 - CORTEXM4 LPC4088 Architecture-Keil, LED Blinking
- + DAY 17 - Switch ,Relay,
- + DAY 18 - UART,SPI
- + DAY 19 - LCD,IIC
- + DAY 20 - Cortex -M4 - Temperature Monitroing using Zigbee and LORA

## PIC - WEEK 5

- + DAY 21 - Introduction to PIC Architecture
- + DAY 22 - MPLABIDE and LED Blinking
- + DAY 23 - Switch ,Relay, PWM
- + DAY 24 - UART,SPI
- + DAY 25 - LCD,IIC



**NODEMCU - WEEK 6**

- + DAY 26 - Introduction to NODE MCU
- + DAY 27 - Led,switch,relay,UART
- + DAY 28 - Iot Temperature Data Logging
- + DAY 29 - Build Your Home Automation with ESP8266 and Control Devices from Anywhere in the World
- + DAY 30 - Conclusion and Wrap up-Graduation Day

