



30 Days Curriculum for ESD ARM Cortex M4

- Introduction to Embedded System Design
- Choosing the Right Processor
- Introduction to Cortex M4 Architecture
- What is IDE & Installation
- Introduction to GPIO
- Real-time Debugging in STM32F411
- Blinking LED and Switch
- Memory Map and Bus Interface of Cortex Mx Processor
- Understanding Stack Memory
- Fault Handling and Analysis
- UART -PART 1
- UART -PART 2
- Interrupt Programming
- System Tick Timer
- Implementation of Task Scheduler
- ADC
- LCD
- PWM
- I2C -PART 1
- I2C -PART 2
- I2C -PART 3-DEMO
- SPI -PART 1
- SPI -PART 2
- Bluetooth Based Home Automation
- Weather Monitoring using STM32 and Google Cloud