: SYLABUS : Microprocessors- Micro controllers

Unit 1 : Microprocessors

Architecture of 8085 and 8086 microprocessor, instruction sets, assembly language programming, interfacing with memory and I/O devices, and interrupt systems.

Unit 2 : Micro controllers

Architecture of 8051 micro controller, SFRs, instruction sets, assembly language/embedded "C" programming timers and counters, serial communication in 8051.

Unit 3: Interfacing of peripherals with 8051 microcontroller

ADC,DAC,converter ,external memory, LCD, keyboard, DC and stepper motor and real-time application design.

Unit 4: Peripheral Interface

Architecture of PPI 8255 abd its interfacing with microprocessors 8085/8086 and microcontrollers. Real-time application design.

Unit 5 : Controllers and minicomputer for IoT

ESP32 and ESP8266: Development boards, Timer, interrupts, Wi-Fi setup connections, PWM. Raspberry pi : Development board, processor, GPIOs, block diagram connection patterns, OS, command line configuration Application design.