

MICROPROCESSORS AND MICROCONTROLLERS LAB SYLLABUS

Module 1: Assembly Language Programming of Arithmetic/Logical Operations

- Arithmetic Operations
- Logical Operations

Module 2: Assembly Language Programming of Memory Operations

- Memory Access and Manipulation
- Memory Management Techniques

Module 3: Assembly Language/Embedded C Programming for Peripheral Interfacing

- General Purpose Input/Output (GPIO)
- Timers
- Serial Communication
- LCD
- Keypad
- Analog-to-Digital Converter (ADC)

Module 4: Hardware Implementation of Peripheral Interfacing

- General Purpose Input/Output (GPIO)
- Timers
- Serial Communication
- LCD
- Keypad
- Analog-to-Digital Converter (ADC)