

SARDAR VALLABHBHAI PATEL INSTITUTE OF TECHNOLOGY - VASAD

CE DEPARTMENT

MICROPROCESSOR AND INTERFACING (3160712) - 6TH SEMESTER

MIDSEM 1 SYLLABUS (ACADEMIC YEAR: 24-25-EVEN)

Sr. No.	Content
1	Introduction to Microprocessor, Components of a Microprocessor: Registers, ALU and control & timing, System bus (data, address and control bus), Microprocessor systems with bus organization
2	Microprocessor Architecture and Operations, Memory, I/O devices, Memory and I/O operations
3	8085 Microprocessor Architecture, Address, Data And Control Buses, 8085 Pin Functions, Demultiplexing of Buses, Generation Of Control Signals, Instruction Cycle, Machine Cycles, T-States, Memory Interfacing
4	Assembly Language Programming Basics, Classification of Instructions, Addressing Modes, 8085 Instruction Set, Instruction And Data Formats, Writing, Assembling & Executing A Program, Debugging The Programs
5	Writing 8085 assembly language programs with decision, making and looping using data transfer, arithmetic, logical and branch instructions
6	Stack & Subroutines, Developing Counters and Time Delay Routines.

Subject Coordinator:

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