Paper Code: PS01CINS02	Total Credit: 4
Title Of Paper: 8 Bit Microprocessor & Microcontroller Systems	

Unit	Description in detail	Weightage (%)
I	8085 Microprocessor: Features, Architecture, Arithmetic & Logic Group, Register Group, Interrupt Control, Serial I/O Control, Instruction Register, Decoder & Control Group, Crystal Interface, Generation of Control Signals, Memory Interfacing & Instruction Set.	25%
II	Interfacing & Applications: 8155 Chip, 8255 Peripheral Interface & 8254 Interval Timer, 8259 Interrupt Controller, 8257 DMA Controller, DAC & ADC.	25%
III	8051 Microcontroller: Architecture, Internal Memory, Special Function Registers, I/O Ports, Timers / Counters, Serial Port Interface, Interrupt Structure & Addressing Modes.	25%
IV	8051 Instruction Set: Data Transfer, Arithmetic, Logical & Branch Group, Programming Examples, Assembler Directives, 8051 System Design & Applications.	25%

Basic Text & Reference Books:-

➢ Microprocessor – I, V. J. Vibhute & P. B. Borole, Tech – Max Publications.

➢ Microprocessors – Architecture, Programming and Applications with the 8085, Ramesh S. Gaonkar, Penram International Publishing.

➢ Embedded System Design using The 8051 Microcontroller Family, Satish Shah, Bension Education.

➢ The 8051 Microcontroller - Architecture, Programming and Applications, Kenneth J. Ayala, Penram International Publishing.