

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Instrumentation – Vocational)
Semester: V
Syllabus with Effect from: June-2013

Paper Code: US05CINV05	Total Credit: 3
Title Of Paper: 8-Bit Microprocessor Programming & Applications - I	

Unit	Description in detail	Weightage (%)
I	The 8085 Microprocessor unit, Bus timing, Demultiplexing the bus, Generating control signal, A detailed look at the 8085 Microprocessor and its architecture, Examples of 8085 based microcomputer.	
II	Instruction classification, Instruction Format, Method of wiring and executing a simple program, Instruction timing and operation status, Addressing modes.	
III	Data transfer Instruction set, Arithmetic instruction set, Logical instruction set, program related to Arithmetic and logical instruction.	
IV	Branch operations and their related programs, writing assembly language programs, Debugging a program, programming techniques : Looping, Counting and Indexing and their related flow charts, Additional Data transfer and 16 bit Arithmetic instruction and related program.	

Basic Text & Reference Books:-

- Microprocessor , Architecture, Programming and Applications with the 8085/8080 By : Ramesh S. Gaonkar

