

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Electronics)
Semester: VI
Syllabus with Effect from: November-2013

Paper Code: US06CELE03	Total Credit: 3
Title of Paper: 8-Bit Microprocessor programming & Applications	

Unit	Description in detail	Weightage (%)
I	Arithmetic operations related to memory, Logical operations : Rotate and compare and related programs, Dynamic Debugging.	25%
II	Counter and time Delays, Hexadecimal counter, Modulo-10 counter, Pulse timing for flashing lights, Debugging counter and time delay programs, Stack Subroutines, Conditional and Non conditional CALL and Return instructions, Advance Subroutine concept and related examples.	25%
III	Code conversion : BCD to Binary, Binary to BCD, BCD to Seven Segment, Binary to ASCII and ASCII to Binary.	25%
IV	BCD Addition, BCD Subtraction, Introduction to Advanced instructions and Applications, Multiplication and Subtraction with carry, the 8085 interrupts, Interrupts instructions and their utilization and their Examples.	25%

Basic Text & Reference Books:

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

