

SARDAR PATEL UNIVERSITY
Programme: B.Sc (Electronics & Communication)
Semester: VI
Syllabus with effect from: November/December-2013

Paper Code: US06CELC02	Total Credit: 3
Title Of Paper: Microprocessor Interrupts & Interfacing	

Unit	Description in detail	Weighting (%)
I	Interrupts Input-output execution, 8085 interrupts, interrupts instructions and their utilization, restart as software instructions	
II	Programmable interface devices Programmable Basic concepts in programmable devices, 8155 multipurpose programmable device, handshake mode 8279 programmable keyboard/display interface.	
III	General purpose programmable Peripheral devices The 8255A Programmable peripheral interface, 8259A Programmable interrupts controller, direct memory access and 8237 DMA controller.	
IV	Serial I/O Data communication Basic concepts, software control asynchronous serial I/O, 8085 – Serial I/O lines: SOD and SID.	

Basic Text & Reference Books:-

- Microprocessor, Architecture, Programming and Application with 8085/8080 – Ramesh S. Gaonkar
- Fundamentals of microprocessors and microcomputers – B. Ram(Dhanpat Rai Pub.)
- Digital Computer Electronics – An Introduction to microcomputers – A.P.Malvino (Tata McGraw Hills)

