## ELECTIVE COURSE I -3- MICRO-PROCESSORS AND INTERFACING

**Objective:** *To teach students about 8085 microprocessor architecture and its interfacing; This shall give them necessary technical basis for understanding modern processors.*

### UNIT-I

Basic concepts of microprocessors- 8085 Assembly language – 8085 architecture and memory interfacing.

### UNIT-II

Interfacing I/O - 8085 Instruction set.

### UNIT-III

Programming techniques - Counters-Time delays – Stack –Subroutines.

### UNIT-IV

Software systems & assemblers - Interrupts – Programmable interface devices.

### UNIT-V

Serial I/O – Microprocessor applications.

### TEXT BOOK:

1. **GAONKAR Ramesh,** Microprocessor architecture, programming, and applications with 8085., Fifth edition, Penram international publishers, 2000 **[Unit-1 :(**Chapters 1,2,3,4); **Unit-2** : (Chapters 5,6); **Unit-3 (**Chapters 7,8,9); **Unit-4 (**Chapters 11, 12,14), **Unit-5 (**Chapters 16,17)]

### REFERENCE BOOK

1. **Mathur Adithya P.,** Introduction to microprocessors, Tata McGrawHill, 2003(ISBN 0-07-460222-5)