2.8 30321 COMPUTER ARCHITECTURE

UNIT-1 REGISTER TRANSFER LOGIC

- 1.1 Register transfer language
- 1.2 bus and memory transfer
- 1.3 Arithmetic micro operations
- 1.4 Logic micro operations
- 1.5 Shift micro operations

UNIT-2 CPU

- 2.1 Major components of CPU
- 2.2 general register organization
- 2.3 Parallel Processing
- 2.4 Control Unit

UNIT-3 INPUT- OUTPUT SYSTEM

- 3.1 I/O interface
- 3.2 Modes of transfer
- 3.3 I/O Programming
- 3.4 IOP communications

UNIT-4 MEMORY ORGANISATION

- 4.1 Types of Memory
- 4.2 Associative memory
- 4.3 Cache memory
- 4.4 Virtual memory

UNIT-5 PC ARCHITECTURE

- 5.1 Block diagram of 8086
- 5.2 Registers
- 5.3 Address
- 5.4 Basic Instructions

Reference Books:

- 1. Computer System Architecture by Morris Mano.M., Prentice Hall of India
- 2. Computer Organization and Architecture by William Stallings Prentice Hall of India, 2002
- 3. Assembly language and Programming by Peter Abel, Prentice Hall of India
- 4. Fundamentals of Assembly Language Programming Using IBM PC by Detmer Richard.C, Galgotia Publications Ltd. New Delhi
- 5. Computer Architecture (SIE) (Schaum's Outline Series) by Carter, Tata McGraw-Hill