

**GANAPATI INSTITUTE OF ENGINEERING & TECHNOLOGY(POLYTECHNIC)
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Discipline: COMPUTER SCIENCE & ENGG.	Semester: 3 RD	Name of the Teaching Faculty: S.R. PATNAIK, Lecturer(CSE)
Subject: Computer System Architecture	No. of days class allotted/week: 04	Semester from date:01.07.2024 to 08.11.2024 No. of weeks: 15
Week	Class Day	Theory
1 ST	1 st	Basic Structure of Computer Hardware
	2 nd	Basic Structure of Computer Hardware
	3 rd	Functional Units
	4 th	Computer Components
2 ND	1 st	Performance Measure
	2 nd	Memory Addressing and Operations
	3 rd	Instruction and Instruction Sequencing
	4 th	Fundamental of Instruction
3 RD	1 st	Operands
	2 nd	Opcodes
	3 rd	Instruction Format
	4 th	Addressing Modes
4 TH	1 st	Addressing Modes, Types
	2 nd	Processor System
	3 rd	Register Files
	4 th	Complete Instruction Execution fetch, decode, execution
5 TH	1 st	Fetch, Decode, Execution
	2 nd	Hardware Control
	3 rd	Micro Program Control
	4 th	Memory System
6 TH	1 st	Memory Characteristics
	2 nd	Memory Hierarchy
	3 rd	RAM,ROM Organization
	4 th	Interleaved Memory
7 TH	1 st	Cache Memory
	2 nd	Virtual Memory
	3 rd	Input Output System
	4 th	Input Output Interface
8 TH	1 st	Modes of Data Transfer
	2 nd	Programmed I/O Transfer
	3 rd	Interrupt Driven I/O
	4 th	DMA
9 TH	1 st	I/O Processor
	2 nd	I/O Interface
	3 rd	Bus Architecture
	4 th	Bus Architecture
10 TH	1 st	Bus Architecture
	2 nd	System Bus and its Type
	3 rd	Type of system bus and ,data

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	4th	Data,Address,Control
11TH	1st	Bus Architecture
	2nd	Bus Architecture
	3rd	Basic Parameter of Bus Design
	4th	Basic Parameter Of Bus Design
12TH	1st	SCSI
	2nd	USB
	3rd	Parallel Processing
	4th	Parallel Processing
13TH	1st	Linear Pipeline
	2nd	Linear Pipeline
	3rd	Multi Processor
	4th	Multi Processor
14TH	1st	Flynn's Classification
	2nd	Flynn's Classification
	3rd	Single Instruction Strem Multiple Data Stream(SIMD)
	4th	Single Instruction Strem Multiple Data Stream(SIMD)
15TH	1st	Multiple Instruction Strem Single Data Stream(MISD)
	2nd	Multiple Instruction Strem Single Data Stream(MISD)
	3rd	Doubt Clearing Class
	4th	Previous year question Discussion.

REFERENCE BOOKS:

1. "Computer System Architecture" By Moris Mano
2. "Computer Architecture & organization" By Er. Rajeev Chopra

verified

S.R. Pathman
29.6.24
Sign of Faculty

S.R. Pathman
29.6.24
Sign of Sr.Lect.

[Signature]
29/6/24
Sign of Principal