

SYNERGY SCHOOL OF ENGINEERING, DHENKANAL

LESSON PLAN Session (2023-2024)

Discipline: Computer Science & Engineering	Semester: 3 rd , W/2023	Name of the faculty: Jayanta Kumar Behera Email: jayantabhr75@gmail.com
Subject: Computer System Architecture, (Th-1)	No. of Days/week: 04	Start Date: 02/08/2023 End Date: 04/12/2023

Week	Class Day	Theory Topics
1 st	1 st	1. Introduction to Basic structure of computer hardware
	2 nd	Introduction of computer
	3 rd	Basic Structure of computer
	4 th	computer hardware
2 nd	1 st	Functional Units
	2 nd	Computer components
	3 rd	Performance measures
	4 th	Memory addressing & Operations
3 rd	1 st	Revision
	2 nd	2. Introduction to Instructions & instruction Sequencing
	3 rd	Fundamentals to instructions
	4 th	Operands
4 th	1 st	Op Codes
	2 nd	Instruction formats
	3 rd	Addressing Modes
	4 th	Continuing addressing modes
5 th	1 st	Revision
	2 nd	Question answer discussion
	3 rd	3. Introduction to Processor System
	4 th	Register Files
6 th	1 st	Complete instruction execution
	2 nd	Hardware control
	3 rd	Micro program control
	4 th	Revision
7 th	1 st	Quiz – 1
	2 nd	4. Introduction to Memory System
	3 rd	Memory characteristics
	4 th	Memory hierarchy
8 th	1 st	RAM and ROM organization
	2 nd	Continuing about RAM and ROM organization
	3 rd	Interleaved Memory
	4 th	Cache memory
9 th	1 st	Virtual memory

	2 nd	Revision
	3 rd	Question answer discussion
	4 th	5. Introduction to Input – Output System
10 th	1 st	Input - Output Interface
	2 nd	Modes of Data transfer
	3 rd	Programmed I/O Transfer
	4 th	Interrupt driven I/O
11 th	1 st	DMA
	2 nd	I/O Processor
	3 rd	Continuing I/O Processor
	4 th	Revision
12 th	1 st	Question answer discussion
	2 nd	6. Introduction to I/O Interface & Bus architecture
	3 rd	Bus and System Bus
	4 th	Types of System Bus
13 th	1 st	Bus Structure
	2 nd	Basic Parameters of Bus design
	3 rd	SCSI
	4 th	USB
14 th	1 st	Revision
	2 nd	Quiz – 2
	3 rd	7. Introduction to Parallel Processing
	4 th	Parallel Processing
15 th	1 st	Linear Pipeline
	2 nd	Multiprocessor
	3 rd	Flynn's Classification
	4 th	Revision

Prepared By :

P. S. Chandra
25/07/2023

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25/07/23