

Lecture Plan of session Aug-Dec'2020

Course Title: Computer Organization & Architecture

Course Code: PCC-ECE-504

S No.	Topic	Date	Lectures Required
UNIT-I			
01.	Basic structure of computer: Basics of Computer Architecture and Organization	18,19,20,21/08/20	04
02.	Stored Program Organization (Von Neumann Architecture)	24/08/20	01
03.	Instruction Formats, Addressing Modes, Stack and Queue Organization.	25,26,27/08/20	03
	Revision test of Unit I	28/08/20	-
UNIT-II			
04.	Arithmetic: Integer and Floating-Point Representation	31/08/20	01
05.	Fixed Point Arithmetic: Addition, Subtraction, Multiplication and Division	01,02,03,04/09/20	04
06.	Hardware Implementations	07/09/20	01
07.	Floating Point Arithmetic	08,09/09/20	02
08.	IEEE 754 floating point formats.	10/09/20	01
	Revision test of Unit II	11/09/20	-
UNIT-III			
09.	Fundamental Concepts: Single Bus Organization, Execution of a Complete Instruction, Multiple Bus Organization	14,15,16/09/20	03
10.	Hard-Wired & Micro-Programmed Control Units	17,18/09/20	02
11.	Hard-Wired Design Methods, State Table Method	21,22,23/09/20	03
12.	Multiplier Control, Control Memory, Address Sequencing.	24,25/09/20	02
13.	Concept of parallel processing, Pipelining	28/09/20	01
	Revision test of Unit III	29/09/20	-

UNIT-IV			
14.	Memory Hierarchy, Main Memory: RAM, ROM	30/09/20,01/10/20	02
15.	Virtual Memory Concepts, Virtual Memory Address Translation	05,06,07,08/10/20	04
16.	Interleaved Memories, Cache Memory: Mapping Functions	09,12,13,14/10/20	02
17.	Replacement Algorithm, Secondary Storage: Magnetic Hard Disks	15/10/20	04
	Revision test of Unit IV	16/10/20	-
UNIT-V			
18.	Accessing I/O Devices	19/10/20	01
19.	Input/ Output Mechanism: Memory-Mapped I/O	20/10/20	01
20.	Programmed I/O, Interrupts	21/10/20	01
21.	Direct Memory Access	22/10/20	01
22.	Standard I/O Interfaces	23/10/20	01
	Revision test of Unit V	27/10/20	-

Teacher–In-Charge:

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