

Lesson Plan

Discipline: Electrical & Mechanical **Semester:** 2nd **Name of Faculty :** Kumari Jyoti

Subject:
Computer
Application

**No. of days/
week Class
allotted:** 4

Semester From Date: 01.02.24

Week

Class Day

Theory

COMPUTER ORGANIZATION

1st

1st

Introduction to Computer
Evolution of Computers

2nd

Generation of Computers
Classification of Computers

3rd

Basic Organization of Computer (Functional Block diagram)

4th

Input Devices, CPU & Output Devices.

2nd

1st

Computer Memory and Classification of Memory

2nd

COMPUTER SOFTWARE

Software concept.
System software Application software

3rd

Overview of Operating System Objectives and Functions of O.S
Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS

4th

Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS

3rd

1st

Features of DOS, Windows and UNIX

2nd

Programming Languages Compiler, Interpreter

3rd

Computer Virus Different Types of computer virus Detection and prevention of Virus

4th

Application of computers in different Domain

4th

1st

COMPUTER NETWORK AND INTERNET

Networking concept, Protocol,

2nd

Connecting Media, Data Transmission mode

3rd

Network Topologies

4th

Types of Network

5th

1st

Networking Devices like Hub, Repeater, Switch

2nd

Networking Devices Bridge, Router, Gateway & NIC

3rd

Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping

4th

Different types of Internet connectivity and ISP

6th

1st

FILE MANAGEMENT AND DATA PROCESSING

Concept of File and Folder

2nd

File Access and Storage methods Sequential, Direct, ISAM

3rd

Data Capture

4th

Data storage

7th

1st

Data Processing and Retrieval

2nd

PROBLEM SOLVING METHODOLOGY

Algorithm

3rd

Pseudo code and Flowchart

	4th	Generation of Programming Languages
8th	1st	Structured Programming Language
	2nd	Examples of Problem solving through Flowchart
	3rd	OVERVIEW OF C PROGRAMMING LANGUAGE Constants, Variables
	4th	Data types in C
9th	1st	Managing Input and Output operations
	2nd	Operators
	3rd	Operators
	4th	Expressions
10th	1st	Type conversion & Typecasting
	2nd	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue & Goto)
	3rd	Continue
	4th	Continue
11th	1st	Programming Assignments using the above features
	2nd	Programming Assignments using the above features
	3rd	Doubts clearing class
	4th	Class test
12th	1st	ADVANCED FEATURES OF C Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	2nd	Passing Parameters to the Function Call by Value
	3rd	Passing Parameters to the Function Call by Reference
	4th	Assignments using the above features
13th	1st	Scope of Variables and Storage Classes
	2nd	Recursion Function
	3rd	Types of Recursion.
	4th	One Dimensional Array and Multidimensional Array
14th	1st	One Dimensional Array and Multidimensional Array
	2nd	String Operations
	3rd	Pointers Pointer Expression and Pointer Arithmetic Programming
	4th	Assignments using the above features
15th	1st	Assignments using the above features
	2nd	Doubts clearing class
	3rd	Doubts clearing class
	4th	Class test

BOOK REFERENCE:

1. Computer Application by Kalyani Publisher , Computer Fundamentals by E. Balaguruswamy