

Lesson Plan(2023-2024)

Discipline: Civil/Mechanical	Semester: 1st	Name Of The Teaching Faculty: Priyadarshini Acharya
Subject: Computer Application	No. Of Days/Week Class Allotted: 4	No. Of Weeks:15 From – 16.08.2023 to 11.12.2023
Week	Class Day	Theory Topics
1 st	1 st	Chapter 1: COMPUTER ORGANIZATION: Introduction to computer, Evolution of computer, Generation of computer
	2 nd	Define classifications of computer
	3 rd	Basic organization of computer(Functional Block Diagram)
	4 th	Input Devices, CPU, Output Devices
2 nd	1 st	Computer Memory and Classification of Memory
	2 nd	Chapter 2: COMPUTER SOFTWARE : Software concept, System software, Application software
	3 rd	Overview of operating system Objectives and Functions of O.S, Types of Operating System(Batch Processing, Multiprogramming, Time Sharing Operating System)
	4 th	Features of DOS, define commands in Dos and its uses
3 rd	1 st	Define WINDOWS and UNIX ,Programming Languages Compiler , Interpreter
	2 nd	Computer virus, Different Types of computer virus, Detection and prevention of Virus
	3 rd	Applications of computers in different domain

	4 th	Chapter 3: COMPUTER NETWORK AND INTERNET : What is internet and its use in world , Internet process
4 th	1 st	Networking Concepts
	2 nd	Networking Protocol
	3 rd	Date Transmission mode(Simplex mode, half-duplex mode, full-duplex mode)
	4 th	Connecting Media(Twisted pair cable, co-axial cable, fibre optic cable)_
5 th	1 st	Network Topologies(Bus, star, ring, tree, mesh)
	2 nd	Types of Network(LAN, MAN, WAN, PAN)
	3 rd	Uses of network
	4 th	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
6 th	1 st	What is Internet and define their services
	2 nd	Internet Services like E-Mail, WWW, FTP, Chatting
	3 rd	Internet Conferencing, Electronic Newspaper & Online Shopping
	4 th	Different types of Internet connectivity and ISP
7 th	1 st	Chapter 4: FILE MANAGEMENT AND DATA PROCESSING: What is file and folder
	2 nd	How to create a folder in our computer
	3 rd	How to use file and folder in computer system
	4 th	What is data processing and use of file and folder

8 th	1 st	What is file access , method, file storage method
	2 nd	Define types of file access and storage method sequential, direct method
	3 rd	ISAM(Index Sequential access method)
	4 th	Define use and process of ISAM
9 th	1 st	Define Data Capture method
	2 nd	Define Data storage method
	3 rd	Define Data processing method
	4 th	Define Retrieval method
10 th	1 st	Chapter 5: PROBLEM SOLVING METHODOLOGY: Define problem solving methodology
	2 nd	What is Algorithm, Define its functions, it's types
	3 rd	Algorithm methods like symbols, start, end etc
	4 th	Define Problem Solving through Flowchart and define many problems
11 th	1 st	Define Pseudo Code
	2 nd	Define Generation of programming languages and their uses
	3 rd	What is Structured programming Language

	4 th	Examples of Problem solving through Flowchart
12 th	1 st	Chapter 6: OVERVIEW OF C-PROGRAMMING LANGUAGE: What is C-programming language
	2 nd	Define programming languages like C, C++, JAVA, PYTHON etc
	3 rd	What is Constant and Define Variable
	4 th	Difference between the Constants and variables, Define Data types in C Managing Input and Output Operations
13 th	1 st	What is Operators, Define types and functions of Operators
	2 nd	What is Expression, Type Conversion and Type Casting
	3 rd	Decision Control and Looping statements(If, If-else, If-else-if, Switch, While, Do- while, For, Break, Continue & Go to)
	4 th	Programming Assignments using the above features
14 th	1 st	Chapter 7: ADVANCED FEATURES OF C: Features of C-programming
	2 nd	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	3 rd	Differences between the Call by Value and Call by Reference in C-programming
	4 th	What is Scope of Variables and Storage Classes in C-programming
15 th	1 st	What is Function, Define Recursion and types of Recursion function
	2 nd	What is Array, Define types of Array , One Dimensional Array and Multi Dimensional Array

	3 rd	What is String Operations and Pointers
	4 th	Pointer Expression and Pointer Arithmetic Programming Assignments using the above features. Structure and Union (Only concepts, No Programming)

