KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN
Session (2023-2024)

Discipline: Civil Engineering	**Semester: 1st, Winter/2023**	**Name of the Faculty:** Swagatika Dalai Lecturer **Email ID:** sdalaifcs@kp.kiit.ac.in
Subject: Computer Application, Theory-1b	**No. of Days/week:** 04	**Start Date:** 16/08/2023 **End Date:** 11/12/2023

Week	Class Day	Theory Topics
1st	1st	Introduction to Computer
	2nd	Evolution & Generation of Computers
	3rd	Classification of Computers
	4th	Basic Organization of Computer (Functional Block diagram)
2nd	1st	Input Devices, CPU & Output Devices
	2nd	Computer Memory and Classification of Memory
	3rd	Question Answer discussion
	4th	Software concept, System software, Application software
3rd	1st	Overview of Operating System Objectives and Functions of O.S ,
	2nd	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS
	3dr	Features of DOS, Windows and UNIX
	4th	Programming Languages Compiler, interpreter
4th	1st	Computer Virus Different Types of computer virus Detection and prevention of Virus
	2nd	Application of computers in different Domain
	3dr	Quiz Test
	4th	Networking concept, Protocol
5th	1st	Connecting Media,
	2nd	Data Transmission mode

	3rd	Network Topologies
	4th	Types of Network
6th	1st	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
	2nd	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping
	3rd	Different types of Internet connectivity and ISP
	4th	Revision
7th	1st	Concept of File and Folder
	2nd	File Access and Storage methods. Sequential, Direct, ISAM
	3rd	File Access and Storage methods. Sequential, Direct, ISAM (contd..)
	4th	Data Capture, Data storage
8th	1st	Data Processing and Retrieval
	2nd	Question Answer discussion
	3rd	Algorithm, Pseudo code and Flowchart
	4th	Generation of Programming Languages
9th	1st	Structured Programming Language
	2nd	Examples of Problem solving through Flowchart
	3rd	Revision
	4th	Overview of c programming language Introduction to C program
10th	1st	Constants, Variables
	2nd	Data types in C
	3rd	Managing Input and Output operations and header files
	4th	Structure of a typical C program
11th	1st	Operators
	2nd	Type conversion & Typecasting
	3rd	Programs related to above concept.
	4th	Decision Control statement in C
12th	1st	Programs related to Control statement
	2nd	Programs related to Control statement(contd..)
	3rd	Programs related to Control statement(contd..)
	4th	Loop Statements in C
13th	1st	Programs related to loop
	2nd	Programs related to loop(contd..)
	3rd	Revision
	4th	Advanced features of c array

14th	1st	One Dimensional Array and Multidimensional Array
	2nd	Quiz Test
	3rd	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	4th	Recursion Function and Types of Recursion
15th	1st	String Operations
	2nd	Pointers Pointer Expression and Pointer Arithmetic
	3rd	Structure and Union (Only concepts)
	4th	Discussion of previous year questions