

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2023-2024)

Discipline: Mechanical/metallurgy Engineering	Semester: 1 st , W/2023	Name of the faculty: Laxmipriya Samantaray Email: laxmipriyasamantarayfcs@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
1 st	1 st	1. Introduction to Computer Organisation
	2 nd	Introduction to Computer Evolution of Computers Generation of Computers Classification
	3 rd	of Computers
	4 th	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU &
2 nd	1 st	Output Devices.
	2 nd	Computer Memory and Classification of Memory
	3 rd	Revision
	4 th	Question answer discussion
3 rd	1 st	2. Introduction to Computer Software
	2 nd	Software concept, System software, Application software
	3 rd	Overview of Operating System Objectives and Functions of O.S
	4 th	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS
4 th	1 st	Features of DOS, Windows, and UNIX
	2 nd	Programming Languages
	3 rd	Compiler Interpreter Computer Virus
	4 th	Different Types of Computer Virus
5 th	1 st	Detection and prevention of Virus
	2 nd	Application of computers in different Domain
	3 rd	Video class using NPTEL
	4 th	3. Introduction to Computer Networks & Internet
6 th	1 st	Networking concept, Protocol, Connecting Media, Data Transmission mode
	2 nd	Network Topologies, Types of Networks
	3 rd	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
	4 th	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing,
7 th	1 st	Electronic Newspaper & Online Shopping
	2 nd	Different types of Internet connectivity and ISP
	3 rd	Revision
	4 th	Quiz -1
8 th	1 st	4. Introduction to File Management & Data Processing
	2 nd	Concept of File and Folder
	3 rd	File Access and Storage methods.
	4 th	Sequential, Direct, ISAM

9 th	1 st	Data Capture, Data storage
	2 nd	Data Processing and Retrieval
	3 rd	Doubt Clearing Session
	4 th	Revision
10 th	1 st	5. Introduction to Problem Solving Methodology
	2 nd	Algorithm, Pseudocode, and Flowchart Generation of Programming Languages
	3 rd	Structured Programming Language
	4 th	Examples of Problem-solving through Flowchart
11 th	1 st	Continuing Problem-solving flowchart
	2 nd	Practice test
	3 rd	6. Overview of C Programming Language
	4 th	Constants, Variables, and Data types in C Managing Input and Output operations.
12 th	1 st	Operators, Expressions, Type Conversion & Typecasting
	2 nd	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do while,
	3 rd	For, Break, Continue & Goto)
	4 th	Programming Assignments using the above features.
13 th	1 st	Smart class
	2 nd	Quiz -2
	3 rd	7. Advanced Features of C
	4 th	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
14 th	1 st	Scope of Variables and Storage Classes
	2 nd	Recursion Function and Types of Recursion
	3 rd	One Dimensional Array and Multidimensional Array
	4 th	String Operations and Pointers
15 th	1 st	Pointer Expression and Pointer Arithmetic Programming Assignments using the above
	2 nd	features. Structure and Union (Only concepts, No Programming)
	3 rd	Doubt Clearing Session
	4 th	Discussion of the previous year's questions

Laxmipriya Samantaray

Signature of the Faculty