Discipline: Mechanical Engg	Semester: First(1st)	Name of the Faculty: Er T.K Ojha
Subject: Computer Application	No. of days/week class allotted: Five(5)	Semester from Date: 25 .10.22 to Date: 31.01.23 No. of Weeks: 15

WEEK	CLASS DAY	THEORY TOPICS
1st	1st	Introduction to Computer
	2nd	Evolution of Computers
	3rd	Cont.....
	4th	Generation of Computers
	5th	Cont....
2nd	1st	Classification of Computers
	2nd	Cont......
	3rd	Basic Organization of Computer (Functional Block diagram)
	4th	Input Devices, CPU & Output Devices.
	5th	Computer Memory and Classification of Memory
3rd	1st	**Review Class**
	2nd	Introduction of Software Concept
	3rd	System software, Application software
	4th	Overview of Operating System
	5th	Objectives and Functions of O.S
4th	1st	Types of Operating System: Batch Processing,
	2nd	Multiprogramming, Time Sharing OS
	3rd	Features of DOS, Windows and UNIX
	4th	**Monthly Test**
	5th	Programming Languages Compiler, interpreter
	1st	Computer Virus
	2nd	Different Types of computer virus

5th	3rd	Detection and prevention of Virus	
	4th	Application of computers in different Domain	
	5th	**Review Class**	
6th	1st	Introduction To Networking Concept	
	2nd	Protocol, Connecting Media, Date Transmission mode	
	3rd	Network Topologies	
	4th	Cont…..	
	5th	Types of Networks	
7th	1st	Networking Devices like Hub, Repeater, Switch, Bridge	
	2nd	Router, Gateway & NIC	
	3rd	Internet Services like E-Mail, WWW, FTP, Chatting	
	4th	Internet Conferencing, Electronic Newspaper & Online Shopping	
	5th	**Monthly Test**	
8th	1st	Different types of Internet connectivity	
	2nd	ISP	
	3rd	**Review Class**	
	4th	Introduction to Concept of File and Folder	
	5th	File Access and Storage methods. Sequential,	
9th	1st	Direct, ISAM	
	2nd	Data Capture, Data storage	
	3rd	Data Processing and Retrieval	
	4th	**Review Class**	
	5th	Introduction to Algorithm	
10th	1st	Pseudo code and Flowchart	
	2nd	Generation of Programming Languages	
	3rd	Structured Programming Language	

	4th		**Monthly Test**
	5th		Examples of Problem solving through Flowchart
11th	1st		**Review Class**
	2nd		Introduction to Constants and Variables
	3rd		Data types in C
	4th		Managing Input and Output operations.
	5th		Operators, Expressions,
12th	1st		Type conversion
	2nd		Typecasting
	3rd		Decision Control and Looping Statements (If, If-else, If-else-if, Switch While
	4th		Do-while, For, Break, Continue & Goto
	5th		**Review Class**
13th	1st		Introduction to advance features of C
	2nd		Functions
	3rd		Passing Parameters to the Function (Call by Value)
	4th		Passing Parameters to the Function (Call by Reference)
	5th		Scope of Variables, Storage Classes
14th	1st		Recursion Function, Types of Recursion
	2nd		One Dimensional Array
	3rd		**Monthly Test**
	4th		Multidimensional Array
	5th		String Operations
15th	1st		Pointers, Pointer Expression
	2nd		Pointer Arithmetic
	3rd		Programming Assignments using pointer
	4th		Structure & Union
	5th		**Review Class**