DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN

Discipline: MATH & SCIENCE	Semester: 1ST	Name of the Teaching faculty: UMAKANTA NANDA Branch-MECHANICAL	
Subject: COMPUTER APPLICATION	No of Days/Week class alloted: 4	Semester from Date: 25.10.2020 No of weeks: 16	To Date: 31.01.2023

Week	Class Day	Topics
1st	1st	Introduction to Computer
		Importance of this subjects, Cos
		Syllabus description of each module
		Discussion about lesson plan, examination and assignments
	2nd	Introduction to Computer Evolution of Computers Generation of Computers Classification
	3rd	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU &Output Devices.
	4th	Computer Memory and Classification of Memory
2nd	1st	Software concept, System software, Application software
	2nd	Overview of Operating System Objectives and Functions of O.S
	3rd	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS
	4th	Features of DOS, Windows and UNIX
3rd	1st	Programming Languages Compiler, interpreter
	2nd	Computer Virus,Different Types of computer virus,Detection and prevention of Virus
	3rd	Application of computers in different Domain
	4th	CLASS TEST-1
4th	1st	Networking concept, Protocol, Connecting Media,
	2nd	Date Transmission mode
	3rd	Network Topologies
	4th	Types of Network
5th	1st	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC
	2nd	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing
	3rd	Electronic Newspaper & Online Shopping
	4th	Different types of Internet connectivity and ISP
6th	1st	Concept of File and Folder
	2nd	File Access and Storage methods. Sequential, Direct, ISAM
	3rd	Data Capture, Data storage
	4th	Data Processing and Retrieval
7th	1st	CLASS TEST-2
	2nd	Algorithm, Pseudo code and Flowchart Generation of Programming Languages
	3rd	Structured Programming Language
	4th	Examples of Problem solving through Flowchart
8th	1st	Example discussion
	2nd	Constants, Variables and Data types in C Managing Input and Output operations
	3rd	
	4th	Example of C programming
7th 8th	1st	Operators
	2nd	
	3rd	Example of operator using C
	4th	Expressions
	1ST	Example of expression using c
	2nd	Type conversion & Typecasting
	3rd	Example of Type conversion & Typecasting using C
	4th	Decision Control and Looping Statements
9th	1st	Example of IF statement
	2nd	Example of IF-ELSE condition
	3rd	Example of IF-ELSE-IF condition
	4th	Example of switch condition
10th	1st	Example of while, do while condition
	2nd	Example of FOR,BREAK,CONTINUE & GOTO STATEMENT
	3rd	Functions
	4th	Example of function using C
11th 11th 12th	1st	Passing Parameters to the Function
	2nd	Call by value
	3rd	Call by reference
	4th	Scope of variable & storage classes
	1st	Example discussion of call by value,call by reference,scope of variable & storage classes
	2nd	
	3rd	Recursion Function and Types of Recursion
	4th	Example of recursion using C.

	1st	One Dimensional Array and Multidimensional Array	
	2nd		
	3rd	Example of one dimensional array & multidimensional array in C.	
	4th		
13th 14th	1st	String Operations and Pointers	
	2nd		
	3rd	Example of pointer used in C	
	4th		
	1st	Pointer Expression and Pointer Arithmetic Programming Assignments	
	2nd		
	3rd	Structure and Union (Only concepts, No Programming)	
	4th		
15th	1st	CLASS TEST-3	
	2nd	Previous year question discussion	
	3rd	Grand test	
	4th		

Books Recommended
1. Computer Fundamentals and Programming in C by Reema Thareja, Oxford Unversity Press
2. Programming in ANSI C by A.N Kamthane, Pearson Education
3. Computer Application by Kalyani Publisher
4. Let us C by Y. Kanetkar, BPB
5. Computer Fundamentals, by E. Balaguruswamy, TMH

U. Nanda

Signature of the faculty