LESSON PLAN

SUB: COMPUTER APPLICATION

BRANCH:- MECHANICAL ENGG.

SEMESTER:1ST

NAME OF FACULTY: PRAFULLA KUMAR MUNDA(Lect. in CSE)
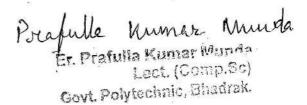

GOVERNMENT POLYTECHNIC, BHADRAK

Hod ,Math&Sc

Academic Co-ordinator

Academic Co-ordinator

Principal
Govt. Polytechnic, Bhadrak

Discipline: Mechanical Engg.	Semester: 1st	Name of the Teaching Faculty : Prafulla kumar Munda
Subject: Computer Application	No. of Days/per week class allotted:4	Semester from date: 16.08.2023 To Date: 11.12.2023 No. of Weeks:16

Week	Class Day	Theory
1st	1st	Introduction to Computer
	2nd	Evaluation of Computer
	3rd	Generation of Computer
	4th	Classification of Computer
2nd	1st	Basic Organisation of Computer,Input Devices and Output devices
	2nd	Computer Memory and Classification of Memory
	3rd	Software Concepts,System software and Application Software
	4th	Overview of Operating System,Objective and Function of Operating System
3rd	1st	Types of Operating System
	2nd	Features of DOS,WINDOWS & UNIX
	3rd	Programming Languages
	4th	Discussion on Compiler and Interpreter
4th	1st	Computer Virus and Types of Computer Virus,Detection and Prevention of virus
	2nd	Application of Computers in different domains and previous year question discussion of chapter1 andchapter2
	3rd	Networking concept,definition of protocol and connecting media
	4th	Data Transmission Mode
5th	1st	Network Topology and Different types of Topology
	2nd	Network and types of Network
	3rd	Networking Devices (Hub,Repeater,Switch,Bridge,Router,Gateway and NIC)
	4th	Internet Services and Different Protocol
6th	1st	Different Types of Internet Connectivity and ISP
	2nd	Concepts of File and Folder and Unit of storage
	3rd	File Access Methods
	4th	Data Capture and Data storage

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7th	1st	Definition of data Processing ,Types of Data Processing and Data retrieval Methods	
	2nd	Algorithms and Pseudo code	
	3rd	Generation of Programming language and structured programming language	
	4th	Flowchart and Examples of Problem solving using Flowchart	
8th	1st	Examples of Problem solving using Flowchart	
	2nd	Introduction to C,Preprocessor,Character set and Keywords	
	3rd	Constants,variables and data Types in C	
	4th	Managing Input –Output Operation with different Conversions	
9th	1st	Definition and types of Operator	
	2nd	Evaluation of Expression,Types Conversions in Expressions	
	3rd	Operator Precedence and Associativity and Type casting	
	4th	Decision Control and Looping Statements,Branching Statement and Types of IF statements	
10th	1st	Program using simple If,If-else,Nested –If and Ladder –If statement	
	2nd	Concepts of switch and conditional operator with Program	
	3rd	Looping statements:while and do-while statement,program to illustrate the concept of while and do-while statement	
	4th	Concept of for loop and Nested for loop with program to illustrate the concept of for loop and nested for loop	
11th	1st	Concept of jumping statement	
	2nd	Programs on control statements and mathematical Computations	
	3rd	Programs on control statements and mathematical Computations	
	4th	Definition,Declaring and accessing a function	
12th	1st	Concept of Recursion ,Types of parameter passing	
	2nd	Call by value and Call by reference	
	3rd	Calling Function with array and Passing Array to function	
	4th	Features of Library function and standard C library	

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13th	1st	Scope of Variable and storage classes
	2nd	One dimensional array and multidimensional array
	3rd	String operations and string handling functions
	4th	Pointer ,pointer Expression and pointer arithmetic
14th	1st	Pointers and one dimensional array
	2nd	Pointer to pointer and pointer to functions
	3rd	Definition of structure and Union
	4th	Relationship Between array and structure
15th	1st	Defining ,Declaring ,size and Initialization of a union
	2nd	Difference between Array ,structure and union
	3rd	Program using Call by value and call by Reference
	4th	Program on one dimensional array and Multidimensional array
16th	1st	Discussion on String handling function
	2nd	Previous Year question with answer discussion
	3rd	Previous Year question with answer discussion
	4th	Previous Year question with answer discussion

Prafulla Kumar Munda
Signature of faculty   12.08.2023

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