

**DEPARTMENT OF MECHANICAL ENGINEERING
LESSON PLAN**

Discipline: MATH & SCIENCE	Semester: 2ND	Name of the Teaching faculty: BIRENDRA KUMAR PRADHAN	
Subject: COMPUTER APPLICATION	No of Days/Week class allotted: 4	Semester from Date: 20/03/2023	To Date: 29/6/2023
		weeks: 15	2ND SEMESTER No of
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	
1st	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	
	1st	Software concept, System software, Application software	
2nd	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	
	1st	Programming Languages Compiler, interpreter	
3rd	2nd	Computer Virus, Different Types of computer virus, Detection and prevention of Virus	
	3rd	Application of computers in different Domain	
	4th	CLASS TEST-1	
	1st	Networking concept, Protocol, Connecting Media,	
4th	2nd	Date Transmission mode	
	3rd	Network Topologies	
	4th	Types of Network	
	1st	Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC	
5th	2nd	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing	
	3rd	Electronic Newspaper & Online Shopping	
	4th	Different types of Internet connectivity and ISP	
	1st	Concept of File and Folder	
6th	2nd	File Access and Storage methods. Sequential, Direct, ISAM	
	3rd	Data Capture, Data storage	
	4th	Data Processing and Retrieval	
	1st	CLASS TEST-2	
7th	2nd	Algorithm, Pseudo code and Flowchart Generation of Programming Languages	
	3rd	Structured Programming Language	
	4th	Examples of Problem solving through Flowchart	
	1st	Example discussion	
8th	2nd	Constants, Variables and Data types in C Managing Input and Output operations	
	3rd	Example of C programming	
	4th	Operators	
	9th	2nd	Example of operator using C
3rd		Expressions	
4th		Example of expression using c	
10th		1ST	Type conversion & Typecasting
	2nd	Example of Type conversion & Typecasting using C	
	3rd	Decision Control and Looping Statements	
	4th	Example of IF statement	
11th	1st	Example of IF-ELSE condition	
	2nd	Example of IF-ELSE-IF condition	
	3rd	Example of switch condition	
	4th	Example of while, do while condition	
12th	1st	Example of FOR, BREAK, CONTINUE & GOTO STATEMENT	
	2nd	Functions	
	3rd	Example of function using C	
	4th	Passing Parameters to the Function	

13th	1st	Call by value
	2nd	Call by reference
	3rd	Scope of variable & storage classes
	4th	Example discussion of call by value, call by reference, scope of variable & storage classes
14th	1st	Recursion Function and Types of Recursion
	2nd	Example of recursion using C.
	3rd	One Dimensional Array and Multidimensional Array
	4th	Example of one dimensional array & multidimensional array in C.
15th	1st	String Operations and Pointers
	2nd	Example of pointer used in C
	3rd	Pointer Expression and Pointer Arithmetic Programming Assignments
	4th	Structure and Union (Only concepts, No Programming)

Birendra K. Pradhan
Signature of the faculty

Books Recommended

1. Computer Fundamentals and Programming in C by Reema Thareja, Oxford University 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