

Name of the Teaching faculty: BIRENDAR KUMAR PRADHAN		
Semester from Date: 16.08.2023	To Date: 11.12.2023	No of weeks: 16
Topics		
Introduction to Computer		
Importance of this subjects, Cos		
Syllabus description of each module		
Discussion about lesson plan, examination and assignments		
Introduction to Computer Evolution of Computers Classification		
Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices.		
Computer Memory and Classification of Memory		
Software concept, System software, Application software		
Overview of Operating System Objectives and Functions of O.S		
Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS		
Features of DOS, Windows and UNIX		
Programming Languages Compiler, interpreter		
Computer Virus, Different Types of computer virus, Detection and prevention of Virus		
Application of computers in different Domain		
CLASS TEST-1		
Networking concept, Protocol, Connecting Media,		
Date Transmission mode		
Network Topologies		
Types of Network		
Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC		
Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing		
Electronic Newspaper & Online Shopping		
Different types of Internet connectivity and ISP		
Concept of File and Folder		
File Access and Storage methods. Sequential, Direct, ISAM		
Data Capture, Data storage		
Data Processing and Retrieval		
CLASS TEST-2		
Algorithm, Pseudo code and Flowchart Generation of Programming Languages		
Structured Programming Language		
Examples of Problem solving through Flowchart		
Example discussion		
Constants, Variables and Data types in C Managing Input and Output operations		
Example of C programming		
Operators		
Example of operator using C		
Expressions		
Example of expression using c		
Type conversion & Typecasting		
Example of Type conversion & Typecasting using C		
Decision Control and Looping Statements		
Example of IF statement		
Example of IF-ELSE condition		
Example of IF-ELSE-IF condition		
Example of switch condition		

Example of while, do while condition
Example of FOR,BREAK,CONTINUE & GOTO STATEMENT
Functions
Example of function using C
Passing Parameters to the Function
Call by value
Call by reference
Scope of variable & storage classes
Example discussion of call by value,call by reference,scope of variable & storage classes
Recursion Function and Types of Recursion
Example of recursion using C.
One Dimensional Array and Multidimensional Array
Example of one dimensional array & multidimensional array in C.
String Operations and Pointers
Example of pointer used in C
Pointer Expression and Pointer Arithmetic Programming Assignments
Structure and Union (Only concepts, No Programming)
CLASS TEST-3
Previous year question discussion
Grand test
If any doubt it will be solved in this period

Recommended
 Computer Fundamentals and Programming in C by Reema Thareja, Oxford University
 Programming in ANSI C by A.N Kamthane, Pearson Education
 Computer Application by Kalyani Publisher
 C++ by Y. Kanetkar, BPB
 Computer Fundamentals, by E. Balaguruswamy, TMH

Birendra K. Pradhan
 Sign. Of Faculty

DEPARTMENT OF MATH & SCIENCE

LESSON PLAN

Discipline: MATH & SCIENCE	Semester: 1ST & 2ND	Name of the Teaching faculty: Mr. Bhendra Ku. Pradhan & SUBHASMITA PRIYADARSHINI BISWAJ
Subject: COMP APP LAB (Pr-1)	No of Days/Week	Semester from Date: 16/08/2023 No of weeks: 16
Week	Class Day	TO DATE-11.12.2023 Topics
1st	GROUP-1	Identification of different components of Computer
		Switch on and Booting Process
	GROUP-2	Shut down, Restart of computer
		Identification of different components of Computer
2nd	GROUP-1	Identification of different components of Computer
		Switch on and Booting Process
	GROUP-2	Shut down, Restart of computer
		Study of device and power supply form factor of Personal Computer System
3rd	GROUP-1	Identification of various Mother Board components and Identification of different Ports
		Types of connectors, and their purpose
	GROUP-2	Cooling System of Processor and Case Identification
		Study of device and power supply form factor of Personal Computer System
4th	GROUP-1	Identification of various Mother Board components and Identification of different Ports
		Types of connectors, and their purpose
	GROUP-2	Cooling System of Processor and Case Identification
		Study of ROM, RAM, Adapter Cards, Expansion Slots, SATA connectors
5th	GROUP-1	Study of Adapters and Converters
		Study of various types of LAB Safety measures (General Safety, Electrical Safety, Fire safety)
	GROUP-2	Analysis of various Power Fluctuation Types (Blackout, Brownout, Noise, Spikes, Power surge), Power Protection Devices (Surge suppressor, UPS, Standby power supply)
		Procedures for proper disposal or recycling of hazardous computer components
6th	GROUP-1	Study of General Lab Tools (ESD tools, Hand tools, cable tools, Cleaning tools, Diagnostic Disk Management Tools
		Power surge), Power Protection Devices (Surge suppressor, UPS, Standby power supply)
	GROUP-2	Procedures for proper disposal or recycling of hazardous computer components
		Study of General Lab Tools (ESD tools, Hand tools, cable tools, Cleaning tools, Diagnostic Disk Management Tools
7th	GROUP-1	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD
		Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD
	GROUP-2	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD
		Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD
8th	GROUP-1	Basic DOS commands (CLS, DIR, DATE, TIME, VERSION, MD, CD, RD, DEL, COPY, REN, USE OF WILD
		Basic Windows OS operations, MOUSE OPERATIONS, Utilities
9th	GROUP-1	Accessories, Installation and configuration of OS

6TH	GROUP-2	Accessories, Installation and configuration of OS
		Basic Windows OS operations, MOUSE OPERATIONS, Utilities
		Basic Windows OS operations, MOUSE OPERATIONS, Utilities
		Accessories, Installation and configuration of OS
7TH	GROUP-1	Accessories, Installation and configuration of OS
	GROUP-2	Accessories, Installation and configuration of OS
8TH	GROUP-1	Basic operations of Word Processing Package. (MS-Word)
	GROUP-2	Basic operations of Word Processing Package. (MS-Word)
9TH	GROUP-1	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
	GROUP-2	Basic operations of Electronic Spread Sheet Package. (MS-Excel).
10TH	GROUP-1	Basic operations of Presentation Package (MS- Power point)
		Basic operations of Presentation Package (MS- Power point)
	GROUP-2	Getting acquainted with Internet connection, Browser, Website URL, Webpage, http, WWW, Net browsing
		Getting acquainted with Internet connection, Browser, Website URL, Webpage, http, WWW, Net browsing
11TH	GROUP-1	Creating E-Mail Id, sending and receiving E-mail Chatting
		Creating E-Mail Id, sending and receiving E-mail Chatting
	GROUP-2	CISCO
		CISCO
12TH	GROUP-1	Write a Program in C to find the greatest number among three numbers.
		Write a Program in C to find the average of n numbers by using for loop.
	GROUP-2	Write a program in C to determine whether a number is prime or not?
		Write a program in C to check whether a given number is palindrome or not?
13TH	GROUP-1	Write a Program in C to find the greatest number among three numbers.
		Write a Program in C to find the average of n numbers by using for loop.
	GROUP-2	Write a program in C to determine whether a number is prime or not?
		Write a program in C to check whether a given number is palindrome or not?
14TH	GROUP-1	Write a program in C to compute the sine series.
		Write a program in C to accept row wise and column wise element in a two dimensional array & print them.
	GROUP-2	Write a program in C to find the vowels in a given string.
		Write a program in C to find the factorial of a number, by using recursion.
15TH	GROUP-1	Write a program in C to compute the sine series.
		Write a program in C to accept row wise and column wise element in a two dimensional array & print them.
	GROUP-2	Write a program in C to find the vowels in a given string.
		Write a program in C to find the factorial of a number, by using recursion.
16TH	GROUP-1	Write a program in C to find the sum of Fibonacci series, by using function.
		Write a program in C to accept a number from keyboard and print it in reverse order of entry, by using function
	GROUP-2	Write a program in C to find the sum of Fibonacci series, by using function.
		Write a program in C to accept a number from keyboard and print it in reverse order of entry, by using function

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