

LESSON PLAN

Discipline: ELECT, ETC & IT	Semester: 2ND	SESSION- 2023-24 Name of the Teaching faculties: Mr. Rabi Kumar Dasg, Mrs. Banika Banitabal, Mr. Subyashanti Sarangi
Subject: COMPUTER APPLICATION (Th-16)	No of Days /per week class allotted 4	No of Weeks 15
Week	Class Day	Theory
1st	1st	COMPUTER ORGANISATION: Introduction to computer, Evolution, Generation of Computers
	2nd	Classification of Computers
	3rd	Basic Organisation of Computers (Functional block diagram)
	4th	Input devices, CPU & output devices
2nd	1st	Computer Memory and Classification of Memory
	2nd	COMPUTER SOFTWARE: Software concept: system software, Application software
	3rd	Overview of operating system Objectives and Functions of OS
	4th	Types of OS: Batch processing, multiprogramming, Time sharing OS.
3rd	1st	Features of DOS
	2nd	Features of Windows and UNIX
	3rd	Programming Languages
	4th	Compiler, Interpreter
4th	1st	Computer Virus, Different Type Of Computer Virus, Detection and prevention of Virus, Application Of Computers in Different Domain
	2nd	COMPUTER NETWORK AND INTERNET: Networking concept, Protocol
	3rd	Connecting Media
	4th	Data Transmission Mode
5th	1st	Network Topologies
	2nd	Types of Networks
	3rd	Networking Devices Like Hub, Repeater, Switch, Bridge, Router, Gateway
	4th	Internet Services Like E-mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping
6th	1st	Different types of Internet Connectivity and ISP
	2nd	FILE MANAGEMENT AND DATA PROCESSING: Concept Of File and Folder
	3rd	File Access and Storage Methods: sequential, Direct.
	4th	QAM Methods, Data Capture, Data Storage
7th	1st	Data Processing and Retrieval
	2nd	PROBLEM SOLVING METHODOLOGY: Algorithm Examples

7th	3rd	Pseudo code
	4th	Flowchart
8th	1st	Generation of Programming Languages
	2nd	Structured Programming Language
	3rd	OVER VIEW OF C PROGRAMMING LANGUAGE: Structure of a C Program
	4th	Constants, Variables
9th	1st	Data Types in C
	2nd	Managing Input Operations
	3rd	Managing Output Operations
	4th	Operators
10th	1st	Expressions
	2nd	Type Conversion and Type Casting
	3rd	Decision Control Statements
	4th	IF, IF-ELSE
11th	1st	IF-ELSE-IF, switch case
	2nd	Looping Statements While, Do-while
	3rd	For loop
	4th	Programming Above Features
12th	1st	Continue and go to
	2nd	Programming Assignments using above Features
	3rd	ADVANCED FEATURES OF C :Functions
	4th	Types Of Functions
13th	1st	Passing Parameters to the Function (Call by value and Call by reference).
	2nd	Scope of Variables and Storage Classes
	3rd	Recursion Function
	4th	Array in C
14th	1st	One Dimensional Array
	2nd	Multi-Dimensional Array
	3rd	String Operations and Pointers.
	4th	Pointer Expression
15th	1st	Pointer Arithmetic Programming
	2nd	Pointer Arithmetic Programming Assignments Using the Above Features
	3rd	Structure
	4th	Union(concepts)

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Signature of the Faculty *AB*
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Discipline: Elect, ETC &IT	Semester : 2nd Session- 2023-24	Name of the Teaching faculties: Mr Rabi Ku Darji, MrsMarsha Rani Patel, Mr Sabyasachi Sarangi
Subject Computer Application Practical	No. of Days/Week Class Allotted: 60	No of weeks :15
Week	Class Day	Practical Topics
1 st	1 st	To identify Different Components of Computer, Switch on , Booting process, Shut down, Restart of computer
	2 nd	Study of device and Power supply form factor of Personal Computer System.
2 nd	1 st	Identification of various Mother Board components
	2 nd	Identification of different ports & various Mother Board components.
3 rd	1 st	Types of connectors and their purpose
	2 nd	Cooling system of Processor and System.
4 th	1 st	Study of ROM, RAM, Adapter Cards, Expansion Slots, SATA connectors.
	2 nd	Study of Adapters and Converters
5 th	1 st	Study of various types of Lab Safety Measures
	2 nd	Study of various types of Power Fluctuation and Power Protection Devices.
6 th	1 st	Study of Procedures For Proper Disposal or Recycling of Hazardous Computer Components.
	2 nd	Study of General Lab Tools, Disk Management Tools.
7 th	1 st	Study Basic DOS Commands
	2 nd	Study Basic Windows Operations, Mouse Operations, Utilities and Accessories , Installation and Configuration of the OS
8 th	1 st	Study Basic operations of the Word Processing Package (MS WORD)
	2 nd	Create your resume with the following specifications and submit the print out to your teacher
9 th	1 st	Prepare a class timetable using Merge rows, Split row, Insert rows, columns and submit the print out to your teacher.
	2 nd	Draw a flow chart for finding the greatest number among three numbers.
10 th	1 st	Study basic operations of the Electronic Spreadsheet Package (MS EXCEL)
	2 nd	Create a spreadsheet to calculate HRA, DA, TA, PF, LIC. Gross Salary , Net Salary from the below given data
11 th	1 st	Create a EXCEL worksheet to analyze the marks of the students of a class using various Charts (Line, XY, Bar and Pie)

	2 nd	Study Basic operations of the Presentation Package (MS POWER POINT)
12 th	1 st	Create a presentation of your institute showing the departments, faculties and facilities available in your institute. Insert animations and your institute.
	2 nd	Create a presentation of any company showing its various functionalities using the various features studied above.
13 th	1 st	Getting acquainted with Internet connection, Browser, website, URL, http, WWW
	2 nd	Creating E-mail id, sending and receiving E-mail, chatting
14 th	1 st	1. Write a Program in C to find the greatest number among three numbers. 2. Write a Program in C to find the average of n numbers by using for loop.
	2 nd	3. Write a program in C to determine whether a number is prime or not? 4. Write a program in C to check whether a given number is palindrome or not?
15 th	1 st	5. Write a program in C to compute the sine series. 6. Write a program in C to accept row wise and column wise element in a two dimensional array and print them. 7. Write a program in C to find the vowels in a given string.
	2 nd	8. Write a program in C to find the factorial of a number, by using recursion. 9. Write a program in C to find the sum of Fibonacci series, by using function. 10. 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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