Discipline: Math & Science	Semester : 1ST Sem:2020-21	Name of the Teaching Faculty: Mrs. Banani Mohanty, Lecturer in Computer science
Subject: COMPUTER APPLICATION	No. of Days/week Class Allotted: 60	Semester from date: 09/11/2020 to date: 31 /03 /2021 No of weeks: 15
week	**Class Day**	**Theory Topics**
1st	1st	Introduction to Computer Evolution of Computers
	2nd	Generation of Computers
	3rd	Classification of Computers
	4th	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices.
2nd	1st	Computer Memory and Classification of Memory
	2nd	Software concept, System software, Application software Overview of Operating System
	3rd	Objectives and Functions of O.S ,
	4th	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS
3rd	1st	Features of DOS, Windows and UNIX
	2nd	Programming Languages Compiler, interpreter
	3rd	Computer Virus, Different Types of computer virus Detection and prevention of Virus
	4th	Application of computers in different Domain
4th	1st	Networking concept, Protocol, Connecting Media,
	2nd	Data Transmission mode
	3rd	Network Topologies: concept, Mesh & star topology: advantages, disadvantages
	4th	Ring, bus and tree topology: advantages, disadvantages
5th	1st	Types of Network : LAN,MAN,WAN,PAN
	2nd	Networking Devices like Hub, Repeater, Switch, Bridge,
	3rd	Other Networking Devices like Router, Gateway & NIC. Internet Services like E-Mail, WWW, FTP
	4th	Internet Services like Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping Different types of Internet connectivity and IS
6th	1st	FILE MANAGEMENT AND DATA PROCESSING Concept of File and Folder, File Storage.
	2nd	File Access methods. Sequential, Direct, ISAM
	3rd	Data Capture, Data storage, Data Processing and Retrieval

	4th	PROBLEM SOLVING METHODOLOGY: Algorithm, Pseudo code and Flowchart
7th	1st	Examples of Problem solving through Algorithm ,Flowchart
	2nd	Examples of Problem solving through Algorithm &Flowchart
	3rd	Examples of Problem solving through Algorithm & Flowchart
	4th	Examples of Problem solving through Algorithm &Flowchart
8th	1st	Generation of Programming Languages, Structured Programming Language
	2nd	OVERVIEW OF C PROGRAMMING LANGUAGE Character set, Keywords in C, first C program, header file
	3rd	Constants, Variables, classification of Data types in C
	4th	Basic Data types: int, float, char
9th	1st	Managing Input and Output operations.
	2nd	Operators, Expressions, types of operators: arithmetic, assignment with examples
	3rd	logical, relational, conditional with examples,
	4th	increment & decrement operator
10th	1st	bitwise operator, Type conversion & Typecasting
	2nd	Decision Control Statements (If, If-else)
	3rd	Nested if else and else if ladder statement with programs
	4th	Programming Assignments using the above features.
11th	1st	Switch statements with programs
	2nd	Looping Statements (While) with Programming examples
	3rd	Do while and for statement with Programming examples
	4th	Break, Continue & goto statements Programming Assignments using the above features.
12th	1st	One Dimensional Array concept: declaration, initialization, memory representation diagram
	2nd	Programs using 1d Array, Multidimensional Array concept ,declaration, initialization
	3rd	String Operations, string handling functions
	4th	Pointers: Pointer Expression and Pointer Arithmetic Programming Assignments using the above features.
13th	1st	Functions: definition, parts of function, syntax with programming examples
	2nd	Programming Assignments using function.
	3rd	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	4th	Scope of Variables and features. Storage Classes
14th	1st	Recursion Function and Types of Recursion
	2nd	Structure and Union (Only concepts)
	3rd	Programming Assignments
	4th	Programming Assignments
15th	1st	Revision of Chapters(1-4)
	2nd	Revision of Chapters(5-7)

	3rd	Discussion of Previous year Questions and Answers
	4th	Discussion of Probable Questions and Answers