

Discipline: Math & Science	Semester : 2nd 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: 19/04/2021 to date: 10 /07 /2021 No of weeks: 15
week	Class Day	Theory Topics
1 st	1 st	Introduction to Computer Evolution of Computers
	2 nd	Generation of Computers
	3 rd	Classification of Computers
	4 th	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices.
2 nd	1 st	Computer Memory and Classification of Memory
	2 nd	Software concept, System software, Application software Overview of Operating System
	3 rd	Objectives and Functions of O.S ,
	4 th	Types of Operating System: Batch Processing, Multiprogramming, Time Sharing OS
3 rd	1 st	Features of DOS, Windows and UNIX
	2 nd	Programming Languages Compiler, interpreter
	3 rd	Computer Virus, Different Types of computer virus Detection and prevention of Virus
	4 th	Application of computers in different Domain
4 th	1 st	Networking concept, Protocol, Connecting Media,
	2 nd	Data Transmission mode
	3 rd	Network Topologies: concept, Mesh & star topology: advantages, disadvantages
	4 th	Ring, bus and tree topology: advantages, disadvantages
5 th	1 st	Types of Network : LAN,MAN,WAN,PAN
	2 nd	Networking Devices like Hub, Repeater, Switch, Bridge,
	3 rd	Other Networking Devices like Router, Gateway & NIC. Internet Services like E-Mail, WWW, FTP
	4 th	Internet Services like Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping Different types of Internet connectivity and IS
6 th	1 st	FILE MANAGEMENT AND DATA PROCESSING Concept of File and Folder, File Storage.
	2 nd	File Access methods. Sequential, Direct, ISAM
	3 rd	Data Capture, Data storage, Data Processing and Retrieval

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

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