Lesson Plan for Computer Application-Th1(b)
Academic semester 2022-(W)
Department of Math&Sc.
Government Polytechnic Balasore

Discipline: Mechanical	Semester: 1st	Name of the Faculty: Er. Swagatika Malik	
Subject: Comp. App Code: Th1(b)	No of Days/per week class allotted: 4 P/W	Semester from date: 25/10/2022 To Date:31/01/2023 No of weeks: 15	
WEEK	**PERIOD**	**TOPIC**	
1st	1st	**COMPUTER ORGANISATION**: Introduction to computer, Evolution, Generation of Computers	
	2nd	Classification of Computers	
	3rd	Basic Organization 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	Over view of operating system Objectives and Functions of OS	
	4th	Types of OS: Batch processing, multiprogramming, Time sharing OS	
3rd	1st	Features of DOS, Windows and UNIX	
	2nd	Programming Languages	
	3rd	Compiler, Interpreter	
	4th	Computer Virus, Different Type Of Computer Virus, Detection and prevention of Virus ,Application Of Computers In Different Domain	
4th	1st	**COMPUTER NETWORK AND INTERNET** Networking concept, Protocol	
	2nd	Connecting Media	
	3rd	Data Transmission Mode	
	4th	Network Topologies	
5th	1st	Types of Network	
	2nd	Networking Devices Like Hub, Repeater, Switch, Bridge, Router, Gateway	
	3rd	Internet Services Like E-mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping	
	4th	Different types of Internet Connectivity and ISP	
6th	1st	**FILE MANAGEMENT AND DATA PROCESSING** Concept Of File and Folder	
	2nd	File Access and Storage Methods: sequential, Direct	
	3rd	ISAM Methods	
	4th	Data Capture, Data Storage	

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