NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)

LESSON PLAN

SUBJECT: Th1(b) . COMPUTER APPLICATION

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Computer Organisation	5	5
2	Computer Software	7	7
3	Computer Network and Internet	8	8
4	File Management and Data Processing	5	5
5	Problem Solving Methodology	5	5
6	Overview of C Programming language	15	15
7	Advanced features of C	15	15
	TOTAL	60	60

Discipline: AUTO/ CIVIL/EE/EEE/MECH	Semester: 1ST&2ND	Name of the Teaching Faculty: Er. HARIHAR SAHOO
Week	Class Day	Theory / Practical Topics
1ST	1st	**COMPUTER ORGANISATION** Introduction to Computer Evolution of Computers Generation of Computers Classification of Computers.
	2nd	Introduction to Computer Evolution of Computers Generation of Computers Classification of Computers.
	3rd	Basic Organisation of Computer (Functional Block diagram) Input Devices, CPU & Output Devices.
	4th	Basic Organisation of Computer (Functional Block diagram) 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 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 Computer Virus
	3rd	Different Types of computer virus
	4th	Detection and prevention of Virus, Application of computers in different Domain
4TH	1st	**COMPUTER NETWORK AND INTERNET** Networking concept, Protocol, Connecting Media,
	2nd	Date Transmission mode Network Topologies,
	3rd	Types of Network
	4th	Networking Devices like Hub,
5TH	1st	Repeater, Switch, Bridge, Router,
	2nd	Gateway & NIC Internet Services like E-Mail,
	3rd	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,
	3rd	Direct, ISAM
	4th	Data Capture, Data storage
7TH	1st	Data Processing and Retrieval
	2nd	**PROBLEM SOLVING METHODOLOGY** Algorithm,
	3rd	Pseudo code and Flowchart Generation of Programming Languages
	4th	Structured Programming Language

8TH	1st	Examples of Problem solving through Flowchart
	2nd	Pseudo code and Flowchart Generation of Programming Languages
	3rd	**OVERVIEW OF C PROGRAMMING LANGUAGE** Constants,
	4th	Variables and Data types in C Managing Input and Output operations
9TH	1st	Operators,
	2nd	Expressions,
	3rd	Type conversion
	4th	Typecasting
10TH	1st	Decision Control
	2nd	Looping Statements (If, If-else, If-else-if, Switch, While, Dowhile, For, Break, Continue & Goto)
	3rd	Looping Statements (If, If-else, If-else-if, Switch, While, Dowhile, For, Break, Continue & Goto)
	4th	Type conversion
11TH	1st	Operators,
	2nd	Typecasting
	3rd	Decision Control
	4th	Programming Assignments using the above features.
12TH	1st	Looping Statements (If, If-else, If-else-if, Switch, While, Dowhile, For, Break, Continue & Goto)
	2nd	**ADVANCED FEATURES OF C** Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	3rd	Scope of Variables
	4th	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
13TH	1st	Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	2nd	Storage Classes
	3rd	Recursion Function
	4th	Types of Recursion
14TH	1st	One Dimensional Array
	2nd	Multidimensional Array
	3rd	String Operations
	4th	Pointers
15TH	1st	Pointer Expression
	2nd	Pointer Arithmetic Programming Assignments using the above features
	3rd	Structure and Union (Only concepts, No Programming)
	4th	Structure and Union (Only concepts, No Programming)