

# PNS SCHOOL OF ENGINEERING & TECHNOLOGY

## LESSON PLAN

<b>Discipline:</b> Computer science	<b>Semester:</b> 2nd	<b>Name of the Teaching Faculty: PRIYABRATA SAHOO</b>
<b>Subject:</b> COMPUTER APPLICATION (Th-1b)	<b>No of Days /per week class allotted:5</b>	<b>Semester From date: 17.03.2023</b> <span style="float: right;"><b>No of Weeks:15</b></span>
<b>Week</b>	<b>Class Day</b>	<b>Theory / Practical Topics</b>
1st	1st	<b>COMPUTER ORGANISATION:</b> Introduction to computer, Evolution, Generation of Computers
	2nd	Classification of Computers
	3rd	Basic Organization of Computers (Functional block diagram)
	4th	Input devices,
	5th	CPU & output devices
2nd	1st	Computer Memory and Classification of Memory
	2nd	<b>COMPUTER SOFTWARE:</b> Software concept: system software, Application software
	3rd	Overview of operating system Objectives and Functions of OS
	4th	Types of OS: Batch processing
	5th	multiprogramming, Time sharing OS
3rd	1st	Features of DOS
	2nd	Features of Windows and UNIX
	3rd	Programming Languages
	4th	Compiler, Interpreter
	5th	Doubt clearing class
4th	1st	Computer Virus, Different Type Of Computer Virus, Detection and prevention of Virus ,Application Of Computers In Different Domain
	2nd	<b>COMPUTER NETWORK AND INTERNET:</b> Networking concept, Protocol
	3rd	Connecting Media
	4th	Data Transmission Mode
	5th	class test
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,
	5th	Internet Conferencing, Electronic Newspaper & Online Shopping
	1st	Different types of Internet Connectivity and ISP
	2nd	<b>FILE MANAGEMENT AND DATA PROCESSING:</b> Concept Of File and Folder

6th	3rd	File Access and Storage Methods: sequential, Direct
	4th	ISAM Methods,
	5th	Data Capture, Data Storage
7th	1st	Data Processing and Retrieval
	2nd	<b>PROBLEM SOLVING METHODOLOGY:</b> Algorithm Examples
	3rd	Pseudo code
	4th	Flowchart
	5th	program practice
8th	1st	Generation of Programming Languages
	2nd	Structured Programming Language
	3rd	<b>OVER VIEW OF C PROGRAMMING LANGUAGE:</b> Structure of a C Program
	4th	Constants, Variables
	5th	Doubt clearing class
9th	1st	Data Types in C
	2nd	Managing Input Operations
	3rd	Managing Output Operations
	4th	Operators
	5th	Doubt clearing class
10th	1st	Expressions
	2nd	Type Conversion and Type Casting
	3rd	Decision Control Statements
	4th	IF,IF-ELSE
	5th	class test
11th	1st	IF-ELSE-IF, switch case
	2nd	Looping Statements While, Do-While
	3rd	For loop
	4th	Programming Above Features
	5th	
12th	1st	Continue and go to
	2nd	Programming Assignments using above Features
	3rd	<b>ADVANCED FEATURES OF C :</b> Functions
	4th	Types Of Functions
	5th	program practice
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
	5th	Function Declaration
14th	1st	One Dimensional Array
	2nd	Multi-Dimensional Array
	3rd	String Operations and Pointers.
	4th	Pointer Expression
	5th	Program practice

15th	1st	Pointer Arithmetic Programming
	2nd	Pointer Arithmetic Programming Assignments Using the Above Features
	3rd	Structure
	4th	Union(concepts)
	5th	Doubt clearing class

*Biswaraj Swain*

**Signature of the Hod**

*Priyabrata Sahoo*

**Signature of the Faculty**