

# Lesson Plan

<b>Discipline: ELECTRICAL &amp; MECHANICAL . Semester: 2<sup>nd</sup> , Name of Faculty : P.K Pattnaik</b>		
<b>Subject:</b> Computer Application	<b>No. of days/ week Class allotted: 4</b>	<b>Semester From Date:</b> 14.03.22 <b>To date :</b> 18.06.22
<b>Week</b>	<b>Class Day</b>	<b>Theory</b>
<b>1st</b>	<b>1st</b>	<b>COMPUTER ORGANIZATION</b> Introduction to Computer Evolution of Computers
	<b>2nd</b>	Generation of Computers Classification of Computers
	<b>3rd</b>	Basic Organization of Computer (Functional Block diagram)
	<b>4th</b>	Input Devices, CPU & Output Devices.
<b>2nd</b>	<b>1st</b>	Computer Memory and Classification of Memory
	<b>2nd</b>	<b>COMPUTER SOFTWARE</b> Software concept. System software Application software
	<b>3rd</b>	Overview of Operating System Objectives and Functions of O.S Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS
	<b>4th</b>	Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS
<b>3rd</b>	<b>1st</b>	Features of DOS, Windows and UNIX
	<b>2nd</b>	Programming Languages Compiler, Interpreter
	<b>3rd</b>	Computer Virus Different Types of computer virus Detection and prevention of Virus
	<b>4th</b>	Application of computers in different Domain
<b>4th</b>	<b>1st</b>	<b>COMPUTER NETWORK AND INTERNET</b> Networking concept, Protocol,
	<b>2nd</b>	Connecting Media, Data Transmission mode
	<b>3rd</b>	Network Topologies
	<b>4th</b>	Types of Network
<b>5th</b>	<b>1st</b>	Networking Devices like Hub, Repeater, Switch
	<b>2nd</b>	Networking Devices Bridge, Router, Gateway & NIC
	<b>3rd</b>	Internet Services like E-Mail, WWW, FTP, Chatting, Internet Conferencing, Electronic Newspaper & Online Shopping
	<b>4th</b>	Different types of Internet connectivity and ISP
<b>6th</b>	<b>1st</b>	<b>FILE MANAGEMENT AND DATA PROCESSING</b> Concept of File and Folder
	<b>2nd</b>	File Access and Storage methods Sequential, Direct, ISAM
	<b>3rd</b>	Data Capture
	<b>4th</b>	Data storage
<b>7th</b>	<b>1st</b>	Data Processing and Retrieval
	<b>2nd</b>	<b>PROBLEM SOLVING METHODOLOGY</b> Algorithm
	<b>3rd</b>	Pseudo code and Flowchart

	4th	Generation of Programming Languages
8th	1st	Structured Programming Language
	2nd	Examples of Problem solving through Flowchart
	3rd	<b>OVERVIEW OF C PROGRAMMING LANGUAGE</b> Constants, Variables
	4th	Data types in C
9th	1st	Managing Input and Output operations
	2nd	Operators
	3rd	Operators
	4th	Expressions
10th	1st	Type conversion & Typecasting
	2nd	Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do-while, For, Break, Continue &Goto)
	3rd	Continue
	4th	Continue
11th	1st	Programming Assignments using the above features
	2nd	Programming Assignments using the above features
	3rd	Doubts clearing class
	4th	Class test
12th	1st	<b>ADVANCED FEATURES OF C</b> Functions and Passing Parameters to the Function (Call by Value and Call by Reference)
	2nd	Passing Parameters to the Function Call by Value
	3rd	Passing Parameters to the Function Call by Reference
	4th	Assignments using the above features
13th	1st	Scope of Variables and Storage Classes
	2nd	Recursion Function
	3rd	Types of Recursion.
	4th	One Dimensional Array and Multidimensional Array
14th	1st	One Dimensional Array and Multidimensional Array
	2nd	String Operations
	3rd	Pointers Pointer Expression and Pointer Arithmetic Programming
	4th	Assignments using the above features
15th	1st	Assignments using the above features
	2nd	Doubts clearing class
	3rd	Doubts clearing class
	4th	Class test

**BOOK REFERENCE:**

1. Computer Application by Kalyani Publisher , Computer Fundamentals by E. Balaguruswamy