# Lesson Plan

| Discipline: Civil & Comp.Sc. | | Semester: 1st | Name of Faculty : Kumari Jyoti |
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| Subject: Computer Application | No. of days/ weekClass allotted: 4 | Semester From Date:16.08.23 | |

| Week | Class Day | Theory |
|---|---|---|
| 1st | 1st | **COMPUTER ORGANIZATION** <br> Introduction to Computer <br> Evolution of Computers |
| | 2nd | Generation of Computers <br> Classification of Computers |
| | 3rd | Basic Organization of Computer (Functional Block diagram) |
| | 4th | Input Devices, CPU & Output Devices. |
| 2nd | 1st | Computer Memory and Classification of Memory |
| | 2nd | **COMPUTER SOFTWARE** <br> Software concept. <br> System software Application software |
| | 3rd | Overview of Operating System Objectives and Functions of O.S <br> Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS |
| | 4th | Types of Operating System Batch Processing, Multiprogramming, Time Sharing OS |
| 3rd | 1st | Features of DOS, Windows and UNIX |
| | 2nd | Programming Languages Compiler, Interpreter |
| | 3rd | Computer Virus Different Types of computer virus Detection and prevention of Virus |
| | 4th | Application of computers in different Domain |
| 4th | 1st | **COMPUTER NETWORK AND INTERNET** <br> Networking concept, Protocol, |
| | 2nd | Connecting Media, Date Transmission mode |
| | 3rd | Network Topologies |
| | 4th | Types of Network |
| 5th | 1st | Networking Devices like Hub, Repeater, Switch |
| | 2nd | Networking Devices Bridge, Router, Gateway& NIC |
| | 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** <br> Concept of File and Folder |
| | 2nd | File Access and Storage methods Sequential, Direct, ISAM |
| | 3rd | Data Capture |
| | 4th | Data storage |
| 7th | 1st | Data Processing and Retrieval |
| | 2nd | **PROBLEM SOLVING METHODOLOGY** <br> Algorithm |
| | 3rd | Pseudo code and Flowchart |

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| | 4th | Generation of Programming Languages |
| 8th | 1st | Structured Programming Language |
| | 2nd | Examples of Problem solving through Flowchart |
| | 3rd | **OVERVIEW OF C PROGRAMMING LANGUAGE**<br>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 | **ADVANCED FEATURES OF C**<br>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 REFERNCE:**

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