

SYLLABUS 2021-2022

Class : Class 8
Subject : Computer Science
Book : Logix -8
Publisher : Kips Publishing Pvt. Limited

Term 1

Chapter 4- Algorithms and Flowcharts

- Algorithm
- Characteristics of an Algorithm
- Flowchart
- Features of a Flowchart
- Advantages & disadvantages of a Flowchart.

Chapter 5- Introduction to Java

- Introduction to Java.
- What is an Object.
- Class
- Features of Object-Oriented Programming
- Fundamentals of Java Language
- Data Types, Operators and operator precedence
- Java Program Structure with simple Java Programs

Term 2

Chapter 1- Operating system and graphical user interface

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- Types of software
- What is an operating system and major facilities provided by the operating system.
- Need of operating system (user view and system view)
- Functions of operating system (memory, input/output, device and processor management)
- Types of operating system (single-user, multi-user, multiprocessing, time-sharing, real time and distributed operating systems)
- User interface and its types
- Advantages & disadvantages of GUI over CUI

Number System

- Conversion from decimal to binary and binary to decimal
- Conversion from decimal to octal and octal to decimal
- Conversion from decimal to hexadecimal and hexadecimal to decimal
- Conversion from binary to octal and octal to binary
- Conversion from binary to hexadecimal and hexadecimal to binary
- Conversion from octal to hexadecimal and hexadecimal to octal
- Binary arithmetic (Binary addition and multiplication)

Term 3

Chapter 6- Decision control structure

- If Control Structure
- Programs based on if else.

Chapter 6- Decision control structure continues...

- If with else if and switch statement
- For loop.

Term 4

Chapter 6- Decision control structure continues....

- For loop continues

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- Worksheet.

Cloud Computing

- Characteristics of cloud computing
- Types, Advantages and Disadvantages of cloud computing.

Computer Project (Web Design , Python/Java)

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