

SYLLABUS 2024-2025

Class : XII

Subject : COMPUTER SCIENCE

Book : COMPUTER SCIENCE WITH JAVA (SUMITA ARORA)

Publisher : DHANPAT RAI AND CO.

Term 1

1. Boolean algebra and Computer hardware

- Propositional logic
- Binary valued Quantity
- Theorems, duality
- k-map
- Simplification of equations
- Application of gates
- Basic laws and de morgan's law

2. Revision of Programming (Class XI)

- Arrays
- Methods, Strings, Files and Recursion
- Call by Value / Reference (passing objects)

Term 2

1. Chapter 12 : Concept of Inheritance

- Need of inheritance
- Types of inheritance
- Super keyword

Abstract class and Interface

Contact Us

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Method overriding

3. Chapter 14 : Simple data Structure

- Linear Stack and Linear Queue
- Polish notation and its Application
- Dequeue
- Circular Queue

Term 3

Data Structure contd.

- Single Linked list – Insertion, deletion, reversal, extracting an element.
- Introduction to recursive data Structure
- Trees / Tree Traversal

Chapter 16: Computational Complexity

- Big O notation
- Estimation of Complexity / Analysis

Term 4

Revision of all the topics

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