

SYLLABUS 2026-2027

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 keywordAbstract class and Interface
Method overriding

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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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