

SYLLABUS 2021-2022

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 demorgan'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

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***Abstract class and Interface**

***Method overriding**

2. Chapter 13: Exception handling

***Try, Catch and Finally block**

***Various types of exceptions**

3. Chapter 14 : Simple data Structure

***Linear Stack and Linear Queue**

***Polish notation and its Application**

4. Chapter 10 : Operation on Files

***Basic Concept of Streams**

***Basic Concept of File Handling**

Term 3

Chapter 14: Recursive Data Structure

***Introduction to recursive data Structure**

***Trees / Tree Traversal**

***Algorithms of data Structure**

Chapter 16: Computational Complexity

***Big O notation**

***Estimation of Complexity / Analysis**

Term 4

Revision of all the topics

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