

## SYLLABUS 2021-2022

**Class : XI**

**Subject : COMPUTER SCIENCE**

**Book : COMPUTER SCIENCE WITH JAVA (SUMITA ARORA)**

**Publisher : DHANPAT RAI AND CO.**

### Term 1

1. Revision of class 10th programming

\* Chapter 1 and 3

2. Data Representation

\* Number systems

\* Conversions

\* Binary arithmetic

3. Chapter 14 (Arrays and library methods with flow of control)

\* S.d.a and d.d.a

\* Library methods

### Term 2

1. Chapter 12 (Function : Recursion)

\* Introduction to recursion

\* Using simple recursion

2. Chapter 5 (Logic and hardware)

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- \* Propositional logic
- \* Basic gates and universal gates
- \* Truth table, wff and logic gate diagrams, minterm, maxterm, canonical SOP, POS
- \* Half adder, full adder and Boolean laws.

### 3. Trends in Computing and Ethical issues.

## Term 3

### 1. Chapter 15(Operation on files)

- \* String tokenizer class
- \* Exception handling
- \* Operations using text files
- \* Operations using binary files
- \* File operations
- \* I/O in files
- \* I/O using scanner

### 2. Passing Objects.

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