

## SYLLABUS 2020-2021

**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.

### **Term 4**

Revision of all the topics( call by reference, recursion , matrix, files , class & objects etc.)

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