

## **SYLLABUS 2023-2024**

**Class : XI**

**Subject : COMPUTER SCIENCE**

**Book : UNDERSTANDING COMPUTER SCIENCE**

**Publisher : APC**

### **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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#### **Contact Us**

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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.

### **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**

1. Revision of practical based questions
2. Revision of Boolean algebra
3. Revision of recursion.

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