SYLLABUS 2026-2027

Class : XI

Subject : COMPUTER SCIENCE

Book : COMPUTER SCIENCE – Class 11

Publisher : Orange Publications

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)

* 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

    * File operations

    * I/O in files

    * I/O using Scanner

2. Introduction to python programming.

    * data types in python

    * Input and print statements

    * Python operators - + - * ** / // % += *= //= **= etc

Term 4

1. Python Flow of control – if, else, elif, loops (for, while), break & continue