



School Syllabus for CBSE

Duration: 150 Hrs./Class.

Course Highlights:

CLASS IX

1. Basics of Information Technology
2. Cyber safety
3. Office Tools
4. Lab Exercises

CLASS X

5. Networking
6. HTML
7. Cyber ethics
8. Lab Exercises

CLASS XI

9. Computer Systems and Organisation
 - Basic Computer Organisation
 - Types of Software
 - Operating System
 - Boolean Logic
 - Number System
 - Encoding Schemes
10. Computational Thinking and Programming -1
 - Introduction to Problem-Solving
 - Familiarization with the Basics of Python Programming
 - Knowledge of Data Types
 - Operators
 - Expressions, Statement, Type Conversion, and Input/output
 - Errors
 - Flow of Control
 - Conditional Statements
 - Iterative Statement
 - Strings
 - Lists
 - Tuples
 - Dictionary
 - Introduction to Python Modules
11. Society, Law, and Ethics
 - Digital Footprints
 - Digital Society and Netizen
 - Data Protection
 - Cyber Crime
 - Cyber Safety
 - Malware
 - E-waste management



- Information Technology Act (IT Act)
- Technology and Society

CLASS XII

12. Computational Thinking and Programming – 2

- Functions
- Exception Handling
- Text file
- Binary file
- CSV file
- Data Structure

13. Computer Networks

- Evolution of networking
- Data communication terminologies
- Transmission media
- Network devices
- Network topologies and Network types
- Network protocol
- Introduction to web services

14. Database Management

- Database concepts
- Relational data model
- Structured Query Language
- Interface of python with an SQL database

Project

Edge : Extra practice sessions and Mock-Test will be conducted after completion of the syllabus

Exit Profile: Future ready Information Technology / Computer Science Engineer.

Certification : Certificate will be provided after completion of the course & clearing exams.

Course Objective :

This Instructor-led Application Program provides a complete understanding of topics as per board Syllabus. School students will learn the importance of programming concepts to become future ready.