



School Syllabus for ICSE Class 9 & Class 10

Duration: 150 Hrs./Class

Course Highlights:

Class IX

- Introduction to Object Oriented Programming concepts
- Elementary Concept of Objects and Classes
- Values and data types
- Operators in Java
- Input in Java
- Mathematical Library Methods
- Conditional constructs in Java
- Iterative constructs in Java
- Nested for loops
- Computing and Ethics

Class X

- Revision of Class IX Syllabus
- Class as the Basis of all Computation
- User-defined Methods
- Constructors
- Library classes
- Encapsulation
- Arrays
- String handling

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.



School Syllabus for ISC Class 11 & Class 12

Duration: 150 Hrs.

Course Highlights:

Class XI

Section A

1. Numbers
2. Encodings
3. Propositional logic

Section B

4. Introduction to Object-Oriented Programming using Java
5. Objects
6. Primitive values, Wrapper classes, Types, and casting
7. Variables and Expressions
8. Statements, Scope
9. Methods and Constructors
10. Arrays, Strings

Section C

11. Basic input/output Data File Handling (Binary and Text)
12. Recursion
13. Implementation of algorithms to solve problems
14. Packages
15. Trends in computing and ethical issues

Class XII

Section A

1. Boolean Algebra
2. Computer Hardware

Section B

3. Implementation of algorithms to solve problems
4. Programming in Java (Review of Class XI Sections B and C)
5. Objects
6. Primitive values, Wrapper classes, Types and casting
7. Variables, Expressions
8. Statements, Scope
9. Methods
10. Arrays, Strings
11. Recursion

Section C

12. Inheritance, Interfaces and Polymorphism
13. Data structures
 - Single linked list, binary trees, tree traversals



- Complexity and Big O notation

Project

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Exit Profile:

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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.