

IT CODING FOUNDATION

Lesson 1 : Computer & Programming Basics

- What is software?
- What is programming?
- List of programming languages & IDE
- Machine code vs High-level language
- Compiler vs Interpreter vs Assembler
- Algorithm & Flowcharts

Lesson 2 : Core Concepts

- Character Sets
- Variables, Constants & Keywords
- Data Types
- Operators
 - Practice Questions

Lesson 3 : Knowing different programming languages (Basic structure & Syntax)

- C C++ JAVA Python
- Programs on basic mathematics

Lesson 4 : Control Flow & Programming Logic

- Conditional Statements
 - Practice programs
- Loops
- Nested loops
 - Practice programs
- Jump Statement

Lesson 5 : Logical Problem Solving

- Series programs
- Number programs
- Pattern programs

Lesson 6 : Functions & Logic Organization

- Function Definition & Syntax
- Parameters and Arguments
- Return Values
- Local vs. Global Scope

Lesson 7 : Basic Data Structure

- Array
 - Practice programs
- String
 - Practice programs

Lesson 8 : Practical Application Project

- School report card
- Quiz

