## Course Title: Programming Fundamentals

Duration: 40 hours, 20 lessons

1. Computer Abstractions and Technology
2. Instructions: Language of the Computer
3. Arithmetic for Computers
4. The Processor and Memory Hierarchy
5. Operating-System Structures
6. Process, Memory and Storage Management
7. Introduction to Software Engineering
8. Block Scheme of Program Algorithm
9. Programming Tools
10. .NET Core Platform, Common Intermediate Language
11. Main Method, Using Top-Level Statements, Console I/O
12. System Data Types
13. String, Immutable Types
14. Iteration Constructs
15. Decision Constructs
16. Arrays
17. Methods & Parameters
18. Enum & Structure Type
19. Value and Reference Types
20. Nullable Types & Tuples