

Dot Net Programming Training Coimbatore

Curriculum

1. Introduction to .NET Development:

- Understanding the .NET framework and its significance.
- Setting up your development environment for efficient coding.
- Overview of Common Language Runtime (CLR) and the Common Type System (CTS).

2. C# Programming Essentials:

- Mastering the C# programming language.
- Navigating through variables, data types, and control flow structures.
- Advanced concepts: Delegates, Events, and Lambda expressions.

3. Object-Oriented Programming (OOP) with .NET:

- Application of OOP concepts in the .NET environment.
- Understanding classes, objects, inheritance, polymorphism, encapsulation, and abstraction.
- Design principles: SOLID principles and Design Patterns.

4. .NET Web Development:

- Creating dynamic web applications with ASP.NET.
- Exploring web forms, MVC architecture, and web services.
- Frontend frameworks: Introduction to HTML5, CSS3, and JavaScript.

5. Database Connectivity with ADO.NET:

- Seamless integration with databases using ADO.NET.
- Executing SQL queries and handling data manipulation.
- Entity Framework: Object-Relational Mapping (ORM) for .NET.

6. Advanced .NET Features:

- Exploring advanced features like LINQ and asynchronous programming.
- Implementing error handling and debugging techniques.
- Unit testing in .NET: Introduction to NUnit and MSTest.

7. Mobile App Development with Xamarin:

- Introduction to cross-platform mobile app development.
- Building mobile applications using Xamarin and .NET.
- Deploying mobile apps to different platforms.

8. .NET Core and Microservices Architecture:

- Overview of .NET Core and its advantages.
- Designing scalable and maintainable applications with Microservices Architecture.
- Containerization with Docker and orchestration with Kubernetes.