

ASP.NET Core Comprehensive Course Syllabus

A step-by-step master curriculum covering MVC, Web API, and Entity Framework Core.

Module 1: ASP.NET Core 10

- Introduction to ASP.NET Core
- Creating ASP.NET Core Project
- ASP.NET Core Folder Structure
- MVC Pattern
- Different Types of Views
- Controller and Actions
- Razor
- Routing
- Areas
- Helpers
- Partial Views
- View Components
- Data Passing Techniques
- Forms & Validations
- Model Binding
- ASP.NET Core Pipeline
- Middleware
- Filters
- Dependency Injection
- Security: Authentication/Authorization

Module 2: ASP.NET Core Web API

- REST Principles
- ASP.NET Core Web API
- Controller & Action Results
- Routing
- HTTP Verbs
- Content Negotiation
- Parameter Binding
- Validations
- Security: Authentication/Authorization
- Versioning

Module 3: EF Core (Entity Framework Core)

- Introduction to O/RM
- EF Core Version History
- Database First Approach
- Code First Approach
- Database Migrations
- Database Operations
- Repositories Design Patterns
- CRUD Operations