



REGENT EDUCATION & RESEARCH FOUNDATION

Group of Institutions

Name of Course : **Basic Knowledge about ASP.NET –
Empowering Students in Web Development**

Academic Year : **2022 - 2023**

PROVISIONAL COURSE MODULE

Class-1.1. Introduction to ASP.NET (Duration- 2hrs)

1. What is ASP.NET?
2. ASP.NET Architecture
3. ASP.NET Core vs. ASP.NET Framework

Class-1.2. Setting Up the Development Environment (Duration- 2hrs)

1. Installing Visual Studio (or Visual Studio Code)
2. Creating a New ASP.NET Project

Class-2.1. ASP.NET Web Form (Duration – 2 hrs)

1. Creating Web Forms Applications
2. Working with Server Controls

Class-2.2. ASP.NET Web Form Handling Events (Duration – 2 hrs)

1. Handling User Input
2. Data Validation
3. Event-Driven Programming in Web Forms

Class-3.1. ASP.NET Validation (Duration – 2 hrs)

1. Importance of Data Validation
2. Types of Validation (Client-side vs. Server-side)
3. ASP.NET Validation Controls Overview

Class-3.2. Regular Expressions and Custom Validators (Duration – 2 hrs)

1. Working with Regular Expressions
2. Creating Custom Validation Controls
3. Handling Complex Validation Scenarios

Class-4.1. ASP.NET MVC (Duration: 2 hrs)

1. Introduction to MVC Architecture
2. Creating MVC Projects
3. Controllers, Views, and Models



Campus : **Regent Education & Research Foundation Group of Institutions**

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4. Routing

Class-4.2. Creating Views (Duration: 2 hrs)

1. Creating and Rendering Views
2. Razor Syntax
3. Layout Views and Partial Views

Class-5.1. ASP.NET Razor (Duration: 2 hrs)

1. Introduction to Razor Pages
2. Creating Razor Pages Applications
3. Razor Syntax
4. Handling Forms in Razor Pages

Class -5.2. Error Handling and Logging in Razor Views (Duration- 2 hrs)

1. Handling Errors in Razor Views
2. Custom Error Pages in Razor
3. Logging Best Practices

Class -6.1. Real-world Applications (Duration- 2 hrs)

1. Applying Validation Techniques to Real-World Projects
2. Case Studies of Validation in Popular Websites
3. Handling Validation in Large-Scale Applications

Class -6.2. Case Studies (Duration- 2 hrs)

1. Building a Web Application.
2. Implementing Security Measures
3. Scaling for High Traffic
4. Integration with External Services

Class -7.1. Career Paths (Duration- 2 hrs)

1. Overview of the module's goals and objectives.
2. Importance of career planning and exploration.
3. Discussion of various job titles and roles in ASP.NET development.
4. Responsibilities and skillsets associated with different roles.

Class -7.2. Opportunities (Duration- 2 hrs)

1. Exploration of industries and sectors that heavily rely on ASP.NET development.
2. Case studies of companies or organizations that use ASP.NET.
3. Identifying emerging trends and opportunities.

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Class -8.Hands-on Training and Practice (Duration- 4 hrs)

1. Importance of practical skills in ASP.NET development
2. Coding Exercises and Mini-Projects



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