

Certificate Course in ASP (Active Server Pages)

Course Duration: 2 Months

Course Overview

The Certificate Course in ASP introduces learners to **server-side web programming using Active Server Pages (ASP)**. The course equips students with the ability to design dynamic and interactive web applications. Students will gain hands-on experience in building ASP pages, handling forms, working with databases, and developing complete web-based solutions.

Course Objectives

By the end of this course, learners will be able to:

- Understand the fundamentals of **ASP and server-side scripting**.
 - Create **dynamic and interactive web applications**.
 - Use **VBScript/JavaScript** within ASP pages effectively.
 - Perform **form handling, validation, and session management**.
 - Connect and interact with **databases using ADO**.
 - Develop, debug, and deploy simple **ASP-based web applications**.
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Course Outcomes

Learners completing this course will be able to:

- Develop **ASP-based websites** with dynamic content.
 - Implement **user authentication, session tracking, and cookies**.
 - Create **database-driven applications** using ADO with ASP.
 - Design **real-world projects** such as feedback systems, online forms, and small-scale e-commerce modules.
 - Be ready for **entry-level roles** in web development or further specialization in advanced frameworks like ASP.NET.
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Course Syllabus

Module 1: Introduction to ASP

- Overview of web technologies (HTML, client-side vs server-side scripting)
- Introduction to ASP and its role in web development
- Setting up ASP environment (IIS server)
- Writing first ASP page

Module 2: ASP Basics

- ASP syntax and structure
- Using VBScript/JavaScript in ASP
- ASP objects (Request, Response, Server, Application, Session)
- Response object methods (Write, Redirect, End)
- Server variables

Module 3: Forms and User Interaction

- Handling HTML forms with ASP
- Request object methods (QueryString, Form, Cookies)
- Form validation techniques
- Working with Session and Application objects

Module 4: Cookies & State Management

- Introduction to Cookies in ASP
- Creating, reading, and deleting cookies
- Session management and security

Module 5: Database Connectivity with ADO

- Introduction to ADO (ActiveX Data Objects)
- Establishing database connections (MS Access / SQL Server)
- Executing SQL queries (SELECT, INSERT, UPDATE, DELETE)
- Recordset object in ASP
- Displaying data from databases in ASP pages

Module 6: Error Handling & Debugging

- Common ASP errors and debugging techniques
- Error handling with On Error Resume Next
- Logging errors

Module 7: ASP Application Development

- File handling in ASP
- Sending emails using ASP
- Uploading files with ASP
- Security considerations in ASP

Module 8: Mini Project Development

- Design and develop a real-world project such as:
 - Online Feedback Form
 - Student Registration System
 - Simple Shopping Cart
 - Event Booking System

☒ **End of Course Deliverable:** A **working ASP project** with documentation and demonstration.