Navodaya Computer Saksharta Mission®

A National Literacy Programme of Information Technology & Skill Development

Member of
Quality Council of India
Computer Society of India

AN ISO 9001 : 2008 CERTIFIED ORGANIZATION

An Autonomous Institution Registered Under Planning Commission-Trust & Societies Act. NCT New Delhi
RJ 2013/00056856, Section 60 (B) 4 VOL 2901/1878 Act,1882 & ROS/North/091/2010 Act,1860
Ministry of HRD (Department of Higher Education) Courses Registered Under CR Act

Government of India

Appreciatated by
President|Prime Minister|Vice-President
FMO|MHA|MHRD|MCIT|MSME|MSJE|MCA|MMA|CM|Governer

CC-ASP.NET
Certificate Course in ASP.NET
COURSE CODE : CC-037

COURSE CONTENT & SYLLABUS

H.O. : 3-KHA-4, Sector 3, Vigyan Nagar, Kota-324005, (Rajasthan) India
Tel.: 0744-2412009 Fax: 0744-2411150 Mob. +91 94629 67201

visit us : www.navodayaindia.in | www.ncsm.in | E-mail : contact@ncsm.in, info@ncsm.in

CC-ASP.NET
Certificate Course in ASP.NET

COURSE CONTENTS

Course code – CC-037   **Eligibility : 12ᵀᴴ Class & Above**

Duration : 3 Month

- WEB PROGRAMMING INTRODUCTION

- HTML AND JAVASCRIPT

- INTRODUCTION TO ASP

- ASP.NET INTRODUCTION & SAMPLE PROGRAMS

- VALIDATION CONTROLS

- APPLYING THEMES AND STYLES TO CONTROLS

- ASP.NET ARCHITECTURE

- PAGE NAVIGATION OPTIONS

- CREATING A LAYOUT USING MASTER PAGES

- USER CONTROL

- ASP.NET STATE MANAGEMENT

- DATABOUND CONTROLS

- CREATING VIRTUAL DIRECTORY & WEB APPLICATION

- GLOBA.ASAX & HTTPAPPLICATION

- UNDERSTANDING CONFIGURATION FILE WEB CONFIG

- WEB CACHING

- AUTHENTICATION & AUTHORIZATION

- GLOBALIZATION AND LOCALIZATION

- AJAX.NET

CC-ASP.NET
Certificate Course in ASP.NET

COURSE SYLLABUS

WEB PROGRAMMING INTRODUCTION

A. Understanding role of Web Server and Web Browser
B. Brief about HTTP Protocol
C. HTTP Request structure
D. Form Tag and comparison between Get and Post methods
e. HTTP Response Structure

HTML AND JAVASCRIPT

A. Understanding HTML Form Tag and elements within it
B. Java script using Sample Programs

INTRODUCTION TO ASP

A. Introduction to ASP
B. Types of Path
C. Examples using Response object of ASP
D. Working with FORM tag
E. Important Points about the FORM submission
F. Few more examples
G. Problem with ASP

ASP.NET INTRODUCTION & SAMPLE PROGRAMS

A. How to create and run the first ASP.NET application
B. Understanding the code generated by VS.NET
C. Example Programs
D. Understanding Auto Post Back
E. Types of Server Controls
   a. HTML controls
   b. Web Server Controls
F. Exploring Server Controls

VALIDATION CONTROLS

A. Base Validator
B. Validation Summary
C. Required Field Validator
D. Compare Validator
E. Range Validator
F. Regular Expression Validator
G. Causes Validation Property of Button
H. Grouping Controls for Validation

APPLYING THEMES AND STYLES TO CONTROLS

    A. Working with CSS

    B. Using Themes to Customize a Site

    C. Named Skins within a Theme

    D. Server-side Styles using Themes

    E. Contents of a Theme and Skin

    F. Themes and Profiles

ASP.NET ARCHITECTURE

    A. What is App Domain

    B. Life cycle of a Web Form when requested by a client.

    C. How does a control manages its state

    D. Enable View State property

    E. Event Handling in Web Forms

    F. Writing / Using Custom Classes in Web Application

PAGE NAVIGATION OPTIONS

    A. Response Redirect

    B. Server Transfer

    C. Cross Page Post Back property of Button
       1. Accessing controls of Previous Page
       2. Accessing Properties of Previous Page
       3. Previous Page Type page directive

CREATING A LAYOUT USING MASTER PAGES

    A. Why Master Pages

    B. Significance of Content Place Holder Tag in Master Page and Content Tag in Web Form

    C. How a control of Master Page can be accessed / Programmed in Web Form
       1. Master Find Control
       2. Public property in Master Page and <%@Master Type Directive in Web Form

    D. Load and Load Complete events of the Page and Master Page classes

    E. Understanding Client ID and Unique ID properties

USER CONTROL

    A. Creating a User Control

    B. Adding a User control to the Web Form

    C. Register – Directive

    D. Loading User Control Dynamically

    E. Usage of Page Client Script Register Client Script Block Method

ASP.NET STATE MANAGEMENT

    A. Need for state management

    B. Static members in Web form

    C. Global Class in App Code folder

    D. View State

    E. Hidden Field

    F. Query String

    G. Http Context

    H. Http Cookie and Cookie Dictionary

    I. Http Session State

    J. Http Application State

DATABOUND CONTROLS

    A. Rendering Table o/p using Sql Data Adapter and Sql Command Reader

    B. Sql Data Source

    C. Grid View

    D. Details View

    E. Forms View

    F. Data List

    G. Repeater

    H. List View

CREATING VIRTUAL DIRECTORY & WEB APPLICATION

    A. What is Web Applications & Virtual Directory

    B. Using VS.NET creating Web Application with Location as IIS

    C. How to create a Virtual Directory & Web Application in IIS

    D. Advantages of Web Application

    E. Steps for moving Web Application created using File System to IIS

    F. How to use Virtual Directory which is not a Web Application.

GLOBA.ASAX & HTTPAPPLICATION

    A. Global asax file

    B. Http Application Class

    C. Events of Http Application Object

    D. Examples

        a. Url Rewriting

        b. Handling Errors

        c. Tracking number of Sessions

UNDERSTANDING CONFIGURATION FILE - WEB CONFIG

    A. Importance of web config

    B. Managing Application Settings

    C. Handling Errors / Custom Errors

    D. URL Re-Writing

    E. Tracing of Page Life Cycle

    F. Config Source attribute

    G. Location Section

    H. Updating Web Config Programmatically

WEB CACHING

    A. Why Caching

    B. Output Caching

    C. Fragment Caching

    D. Substitution Caching

    E. Data Caching

    F. Expiration Policy to expire Data & Output Cache

AUTHENTICATION & AUTHORIZATION

    A. Authentication & Authorization

    B. Windows Based Authentication

    C. Form Based Authentication

    D. Authorizing Users and Roles

    E. Impersonation

GLOBALIZATION AND LOCALIZATION

    A. Need for Globalization

    B. How to handle multilingual dynamic data in database

    C. Creating of Local and Global resource file

    D. Mapping Control properties to Keys in resource file

    E. Setting Culture and UI Culture of thread

    F. Right to left direction of text in web page

AJAX.NET

    A. Architecture

    B. Working with AJAX Pro

    C. Using AJAX.NET Controls

        1. Accordion

        2. Calendar

        3. Cascading Drop Dow

        4. Collapsible Panel

        5. Filtered Text Box

        6. Numeric Up Down

        7. Modal Popup

        8. Popup Control