

INVERTIS

UNIVERSITY BAREILLY

Established by Govt. of U.P. vide 27 of U.S.C. Act, 1956 vide U.P. Act 22 of 2010

| | | | | | |
|----------------|-----------------------|----------|----------|----------|------------------|
| BCS-092 | .NET Framework | L | T | P | 3 Credits |
| | | 3 | 0 | 0 | |

Pre-requisites: Basic knowledge of any programming language

Course Objectives:

| | |
|-----|--|
| CO1 | To understand the knowledge of .Net Frameworks along with ASP.Net and C# |
| CO2 | Introduction to Networking and the world wide web. |
| CO3 | Building multi-tier enterprise applications. |
| CO4 | Client-side programming: HTTP, CGI, Cookies, JavaScript, HTML, XML. |
| CO5 | To understand the concept of Dialog Boxes and its Event Handling |

Detailed Syllabus

MODULE-I

The .Net framework: Introduction, The Origin of .Net Technology, Common Language Runtime (CLR), Common Type System (CTS), Common Language Specification (CLS) and its Architecture, Microsoft Intermediate Language (MSIL), Just-In-Time Compilation, Framework Base Classes. **Programming Language C#:** Declaring implicit and explicit variables, Unicode characters and strings, creating Object and Classes, The Main method specification.

MODULE-II

Object oriented programming with C#: Inheritance, Method Overloading and method overriding, Polymorphism, Operator Overloading, Abstract Class, Inner Class, and Interface, Delegates, Partial Classes, Exception Handling, Creating Name-Space, Input-Output and File Handling, Multithreading.
Windows Application: Introduction of windows form, Linking Window Form, Creating Properties, window form controls, MDI form.

MODULE-III

Containers and its Event Handling: Flow Layout Panel, Group Box, Panel, Split Container, Tab Control, Table Layout Panel. Navigation Control and Its Event Handling: Context Menu Strip, Tool Strip, Status Strip, Tool Strip Container. **Dialog Boxes and its Event Handling:** Message Dialog Boxes, Color Dialog, Folder Browser Dialog, Font Dialog, Open File Dialog, Save File Dialog, Data Grid View, Dataset, Creating Setup of Web Application.

Introduction to ASP.NET with C#: Introduction of web application, web site, A Review of Classic ASP, ASP.NET Web Applications, Rendering HTML with Server Controls.

Working with Web Forms Controls and C#: Introduction to Web Forms Controls, Simple Input Controls, Hyperlinks, Button Controls and List Controls. Dropdown List Control, Overview of ASP.NET Validation Controls, Client-Side Validation, Server-Side Validation, File Upload controls, Wizard controls. Master Page, Ad Rotator Control, Login Controls, Session Management using Cookies, Session.

INVERTIS

UNIVERSITY BAREILLY

Established by Govt. of U.P. vide 2nd of UGC Act, 1956 vide U.P. Act 22 of 2010

Course Outcomes: After the completion of the course the student will be able to:

| | |
|-----|--|
| CO1 | Student will be able to use the features of .Net Framework along with the features of C# |
| CO2 | Create user interactive web pages using ASP.Net. |
| CO3 | Create simple data binding applications using ADO.Net connectivity. |
| CO4 | To use Dialog Boxes and its Event Handling |
| CO5 | Performing Database operations for Windows Form and web applications. |

Text Books:

1. Beginning Visual C# 2008, Wiley, Wrox Publication, 2nd Edition 2008
2. Programming with C#, E. Balagurusamy, TMH, 2nd Edition 1999
3. Microsoft .Net for Programmers, Fergal Grimes, SPI Edition,
4. C# Programming Language, Anders Hejlsberg, Mads Torgersen, Scott Wiltamuth, and Peter Golde, Pearson Education Inc, 4th Edition.