

**B.Sc. Part – III Computer Science (Optional) (Semester – VI)**

**Course Code: DSE-F22      Computer Science Paper –XIX**

**Course Title: ASP.NET**

**Total Contact Hours: 36 Hrs (45 Lectures of 48 Min.)**

**Teaching Scheme: Theory – 03 Lect. / Week**

**Credits: 02**

**Total Marks: 50**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) understand Web server, HTTP request response architecture.
- 2) learn Web forms and their controls.
- 3) learn state management in web forms.
- 4) understand ADO.NET Architecture with connection oriented and Disconnected layer.

**Unit – 1: Introduction to ASP.NET**

**(18 Hrs.)**

Introduction to Scripting Languages, ASP.NET Introduction, Features of ASP.NET, Web browser and web server, HTTP request response structure, HTML form elements, GET/POST method, Client side and Server side programming, Web form life cycle, Page events, Server Controls: Textbox, Listcontrols, FileUpload, Linkbutton, Imagemap, Image, Imagebutton, Calender, Literal control, Radiobutton, Checkbox, Validation Controls, Navigation controls, Master Page.

**Unit – 2: State Management and Database Connectivity**

**(18 Hrs.)**

**State Management:** Cross page postback property of button, Response.Redirect, Server.transfer, Response.Write, State Management - Session, Application, Global.asax, Caching.

**Database Connectivity:** SqlServer Database, Data controls- Gridview, Listview , FormView, DetailsView, Repeater, Introduction to ADO.Net, ADO.NET Architecture- Connection, command, data reader, data adapter, data set, Understanding connected layer of ADO.NET and disconnected layer of ADO.NET.

**Basics of Crystal reports**

**Reference Books –**

1. Beginning ASP.NET 4.5 in C# and VB, Wrox, 2012, ISBN-10: 1118311809
2. Beginning ASP.NET 4.5 in C#, Apress, 2012, ISBN-10: 1430242515
3. Pro C# with .NET 3.0, Andrew Troelsen, Apress, 2007, ISBN 978-1-59059-823-8