

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar

B.C.A. Semester – V

US05CBCA21 : Advanced Web Development Technology

(Syllabus Effective from June 2020)

Credits : 4

External : 70 Marks

Contact Hrs per Week : 4

University Examination Duration: 3 Hrs

All units carry equal weightage

Unit	Description in detail
I	Introduction To ASP.NET Introduction to .NET Platform and Web : Introduction to ASP (Server-side Technology),.NET Framework (FCL and CLR),Overview of IIS, Processing of ASP.NET page (Execution model), Features of .NET IDE, Features of ASP.NET, Working with ASP.NET, Coding Model (Inline and Code-behind), Introduction to Web-Forms and its Events ASP.NET Built-in directory structure App_data,App_code,Bin Application Configuration : Global.asax file, Web.config Common properties : AccessKey, BackColor, BorderWidth, BorderStyle, CSSClass, Enabled, Font, ForeColor, Height, TabIndex, Tooltip, Width, ID, Runat, Text Using Visual C# in ASP. NET: Introduction, Variables, Data Types, Value Types, Scope of Variables, Operators, OOPs Concepts (Encapsulations, Inheritance, Polymorphism and Abstraction)
II	Information Passing, Standard Controls and Master Page Passing Information from one page to another Web Server Controls : Button, Image Button, Link Button, Textbox, Hyperlink, ImageMap control (Creating Hotspots),CheckBox and RadioButton, CheckBoxList, RadioButtonList, ListBox, DropDownList Rich Controls: Calendar, Adrotator control (showing advertisement from XML file and Database), FileUpload control Grouping Controls : Panel, Placeholder Using Navigation Controls : TreeView, SiteMapPath, Menu, Creating sitemap file for navigation Designing Master page
III	State Management ,Validation and Login controls State Management : Using View State, QueryString, Cookies, Session State, Application State and Profile Validation controls : Required Field Validator, Range validator, Regular Expression validator, Compare validator, Custom validator, Validation summary Login Controls : Login, LoginView, PasswordRecovery, LoginStatus, LoginName, CreateUserWizard, ChangePassword. Creating and Managing Roles Creating and Managing Access Rules Creating and Managing Profile
IV	ADO.Net and Data Controls Introduction to ADO.NET and Architecture (Connected and Disconnected). ADO.NET : Connection,Command,DataReader,DataAdapter,DataSet,CommandBuilder Data controls : GridView, DataList, FormView, DetailsView, Repeater

Basic Text & Reference Books :-

1. ASP.NET 4.0 Covers C# 2010 & VB 2010 codes BLACK BOOK, Dreamtech Press
2. Programming in C#, E Balagurusamy, Tata McGraw-Hill
3. The Complete Reference C# 4.0, Herbert Schildt, Tata McGraw Hill, Edition 2010 (Third Reprint 2011)
4. ASP.NET 4 UNLEASHED by Stephen Walther (Pearson)