

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc – Information Technology (Integrated)
Semester: V
Syllabus with Effect from: June - 2014

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| Paper Code: PS05CIIT04 | Total Credit: 3 |
| Title of Paper: Server Side Web Programming Using ASP.NET | |

| Unit | Description in Detail | Weightage (%) |
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| I | <p>Introduction ASP.NET – Introduction, overview of ASP.NET framework The ASP.NET Life cycle, Understanding ASP.NET controls ASP.NET 4.0 coding Models : Single-File Page Model, Code-Behind Page Model The Global.asax Application file Introduction to Web.Config Internet Information Server (IIS) Using Visual C# in ASP. NET: Introduction, Variables, Data Types, Value Types, Scope of Variables, Operators, OOPs Concepts (Encapsulations, Inheritance, Polymorphism and Abstraction)</p> | 25% |
| II | <p>ASP.NET Standard Controls and Validation Controls Using standard controls : [Control Properties] Label, TextBox, Button, CheckBox, CheckBoxList, RadioButton, RadioButtonList, Linkbutton, ImageButton, Hyperlink, DropDownList, ListBox Overview of the validation controls : RequiredFieldValidator, RangeValidator, CompareValidator, RegularExpressionValidator, CustomValidator, ValidationSummary Overview of various rich controls : AdRotator, FileUpload, Calendar Grouping Controls : Panel, Placeholder Master Page and Themes</p> | 25% |
| III | <p>Accessing Data in ASP.NET ADO.NET Architecture-Connected and disconnected ADO.NET basics: DataProvider, Connection, Command, DataReader, Dataset, DataAdapter ADO.NET Basic Control : GridView, DataList, DetailsView, FormView, ListView, Repeater State Management using View State, QueryString, Cookies, Session State, Application State and Profile Using TreeView, Menu, SiteMapPath</p> | 25% |
| IV | <p>Advanced Features Login Controls Introduction to LINQ Standard Query Operators Introduction to LINQ to ADO.NET (Insert, Update, Delete, Join) Simple Application Based on LINQ Introduction to AJAX – Need for Ajax, Advantage and Disadvantage ASP.NET Ajax Architecture – Client-Side and Server-Side ScriptManager Control, Ajax Controls (Basic Controls) Simple Application Based on Ajax Control</p> | 25% |



Basic Text & Reference Books:

- ASP.NET 4.0 Covers C# 2010 & VB 2010 codes BLACK BOOK, Dreamtech Press
- Programming in C#, E Balagurusamy, Tata McGraw-Hill
- The Complete Reference C# 4.0, Herbert Schildt, Tata McGraw Hill, Edition 2010 (Third Reprint 2011)

