

**Uka Tarsadia University**



**B.Com (Computer Application)**

**ASP.Net (030100602)**

**6<sup>th</sup> Semester**

**Effective from January-2014**

# Uka Tarsadia University

## ASP.Net (030100602)

### B.Com (Computer Application) (Sem.-6) Syllabus, effective from January -2014

**Course Objective:** To make students to understand the Web Application Concept.

**Course Outcome:** Students will be able to develop web application, client side and server side communication.

**Total Hours: 52**

**[4 hrs. per week]**

#### Unit-1 Introduction to Web Based Technologies

**[Weightage 25%]**

- 1.1. Introduction to ASP.NET, Event driven Programming
- 1.2. HTTP, HTML, XML, ASP
- 1.3. Compile Code: Inline Code, Code Behind
- 1.4. Page Life Cycle: Phases of Page Life Cycle, Page Events.
- 1.5. Types of Files and Directory Structure in ASP.NET.

#### Unit-2 Visual Studio.NET for ASP.NET

**[Weightage 25%]**

- 2.1. Object Oriented Concept : Class, Object, Constructor, Destructor, Encapsulation, Inheritance, Abstraction, Interface, Polymorphism, Method Overriding
- 2.2. Visual Studio IDE: Creating ASP.NET application and User Interface Elements.
- 2.3. Directives, Page Class, Structure of ASP.NET Page, Global Application Class.

#### Unit-3 Client Server Communication

**[Weightage 25%]**

- 3.1. Web Server – Web Browser Communication
- 3.2. Predefined Objects of ASP.NET: Response, Request, Server
- 3.3. ASP.NET Controls – HTML Server Control, Web Server Control
- 3.4. Standard Controls, Validation control, Login control
- 3.5. Structuring and formatting ASP.NET Page: Master Page, Theme, CSS

#### Unit-4 Web Application Configuration and State Management

**[Weightage 25%]**

- 4.1. Web Configuration Management :Web.config
- 4.2. Database Interaction using ADO.NET Architecture – Data Binding and Data Controls.

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- 4.3. Client side State Management Techniques – Cookies, Query String, Hidden Field, View State.
- 4.4. Server side State Management Techniques- Session, Application, User Profile.

## **Text Book:**

- 1. Nikisha B Jariwala, Bharat C. Patel. “*ASP.NET.*”

## **Reference Books:**

- 2. Beginning ASP.NET using VB.NET – Wrox.
- 3. ASP.NET A Beginner’s Guide – TMH – Dave Mercer.

