

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA IN COMPUTER ENGINEERING

SEMESTER: V

Subject Name: **Internet Application Programming**

Sr. No.	Course Content
1.	Unit – I MS .Net introduction <ul style="list-style-type: none"> 1.1 What is .NET <ul style="list-style-type: none"> 1.1.1 Definition 1.2 The .NET Framework The Common Language Runtime (CLR) <ul style="list-style-type: none"> 1.2.1 The common type system (CTS) 1.2.2 Managed code and unmanaged code 1.2.3 The common language specification(CLS) 1.3 The .NET framework class library <ul style="list-style-type: none"> 1.3.1 Namespaces 1.3.2 Assemblies
2.	Unit – II C# Basics <ul style="list-style-type: none"> 2.1 introducing C# Data Types (including Boxing – Unboxing) 2.2 C# Control structures <ul style="list-style-type: none"> 2.2.1 Conditional structure 2.2.2 Looping structure 2.3 Constructor and Destructor 2.4 Arrays (one dimensional, multidimensional, jagged) 2.5 Understanding Properties and Indexers <ul style="list-style-type: none"> 2.5.1 Get Accessor, Set Accessor 2.5.2 Indexers(One Dimension) and property 2.6 Delegates and events <ul style="list-style-type: none"> 2.6.1 Delegates <ul style="list-style-type: none"> 2.6.1.1 Definition & declaration 2.6.1.2 Using delegate in C# 2.6.1.3 Simple delegate example 2.6.2 Anonymous method 2.6.3 Events <ul style="list-style-type: none"> 2.6.3.1 Generating events 2.7 Inheritance <ul style="list-style-type: none"> 2.7.1 Types of inheritance 2.7.2 Implementation Inheritance <ul style="list-style-type: none"> 2.7.2.1 Calling base version of function 2.7.2.1 Abstract class & function 2.7.2.1 Sealed class & method 2.7.2.1 Constructors of derived class 2.7.3 Modifiers <ul style="list-style-type: none"> 2.7.3.1 Visibility modifiers 2.7.3.2 Other modifiers

	2.7.4 Overview of Abstraction 2.7.5 Interfaces 2.7.5.1 Definition & declaration 2.7.5.2 Derived interface
3.	UNIT –III ADO.Net & Object Oriented Concepts Using C# 3.1 Introduction to Ado. NET, Understanding the Connection Object 3.2 Building the Connection String. 3.3 Understanding the Command Object. 3.4 Understanding Data Readers. 3.5 Understanding DataSets and DataAddapters 3.6 Data Table, Data Column, Data Row 3.7 Working with System Data OleDb. System data 3.8 Data Grid
4.	UNIT –IV 4.1 Web Application Development with ASP .Net 4.2 ASP. NET Server Control 4.2.1 Label, Dropdown list box, Validation Controls, List Box, Textbox, RadioButton, Checkbox 4.3 Authentication (window,.Net Passport, Forms Based) 4.4 Understanding the Global.Asax Page 4.5 Understanding the Web.Config File

List of Practicals:

1. Write a simple program to get value from user and print it on screen using C#.
2. Write a program of binary operator overloading.
3. Write a program using delegation in which addition and subtraction of two integer's value possible
4. Writing a program-using Interface
5. Write a program to display the caption, height of command button into label.
6. Write a window program for list box give the facility for adding, removing and clearing the list with conformation and store the deleted file in another list box
7. Create an window form through which user can enter details of employee: empid, empname, basic salary, sex, date of birth, date of joining, Designation, total income, total deduction and gros salary will be calculated automatically
8. Also in above program all details of employee will be appear in Grid and depending upon selection particular actual record will be appear in form
9. Create an ASP.Net web page using different validation controls
10. Create an ASP.Net Web page that lists the customer from customer's database table in Sort able Data Grid with paging option The Data Grid should display three columns, one for the customers' ids, one for the customer's names and one for the customer' phone numbers. The user should be able to sort the Data Grid by customer ID

Reference Books:

1. Complete Reference C#, Herbert schildt (TMH Publication).
2. ASP.net and VB.net web programming, Matt. J. Crouch (Pearson Publication).
3. Beginning ASP.NET 2.0 with C#, (Wrox Beginning Guides).
4. ASP.NET 2.0 –Black book, Paraglyph Press.
5. Microsoft Visual Basic .Net step by step, Michael Halvorsan (PHI Publication).
6. Microsoft ASP.Net with C# .Net step by step, G.Andew Duthie (PHI Publication).
7. Programming with C# Concepts & Practice, B. Rama Krishana Rao PHI.