CSH505: GUI using .Net Framework

Teaching Scheme	Examination Scheme	
Lectures: 3 hrs/Week	Class Test	– 12 Marks
Tutorials: 1 hr/Week	Teachers Assessment	– 6 Marks
	Attendance	– 12 Marks
Credits: 4	End Semester Exam	– 70 Marks

Prerequisite: HTML and CSS.

Course Objectives:

1. Learn about MS.NET framework developed by Microsoft.
2. You will be able to using XML in C#.NET specifically ADO.NET and SQL server
3. Be able to understand use of C# basics, Objects and Types, Inheritance
4. To develop, implement and creating Applications with C#.

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5. To develop, implement, and demonstrate Component Services, Threading, Remoting, Windows services, web
6. To understand and be able to explain Security in the .NET framework and Deployment in the .NET.
7. To develop Assemblies and Deployment in .NET, Mobile Application Development.

Detailed Syllabus:

Unit-1 **The .Net framework:** An Overview of .NET Framework, The Origin of .Net Technology, Common Language Runtime (CLR), Common Type System (CTS), Common Language Specification (CLS), Microsoft Intermediate Language (MSIL), Just-In –Time Compilation.
Unit-2 **C # Language Syntax:** Why Datatype, Reference Type and Value Type, Datatypes & Variables Declaration, Boxing and Unboxing, Operators, Control Statements, creating Object and Classes, The Main method specification, IF statements, CASE (switch) statements, Looping in C#, Arrays
Unit-3 **OOPs Concept:** Class, Object, Encapsulation, Inheritance, Polymorphism etc. **Controlling program execution:** Method Overloading and method overriding, Operator Overloading, Abstract Class, Inner Class, Interface. Delegates, Partial Classes. Exception Handling.
Unit-4 **GUI –Controls and Event Handling:** Text Box, Label, Link Label, Radio Button, Check Box, List Box, Combo Box, Date Time Picker Control, Calendar Control.
Unit-5 **Containers and its Event Handling**: Group Box, Panel, Tab Control. Dialog Boxes and its Event Handling: Message Dialog Boxes, Folder Browser Dialog, Open File Dialog, Save File Dialog.
Unit-6 **Data Controls:** Data Source, Data Set, and Data Grid View displaying Record in the Grid View Controls. ADO.Net: Connected and Disconnected Architecture, Displaying Record from the Database, Inserting Record into Database, Creating Login using Database, Deleting Record from the Database, Fetching Record from the Database, Update Record in the Database.
Suggested Readings: 1. Programming with C#, E. Balagurusamy, TMH, 1st Edition. 2. Beginning Visual C# 2008, John Wiley, Wrox, May 2008. 3. Microsoft .Net for Programmers, Fergal Grimes, SPI, 2002.

Course Outcomes:

After completing the course, students will be able to:

1. Learn to develop applications using C# and VB.NET.
2. Learn to apply these languages to develop server-side applications which make use of ADO.NET, ASP.NET, Web Services etc.
3. Understand use of C# basics, Objects and Types, Inheritance
4. Develop, implement and creating Applications with C#.
5. Develop, implement, and demonstrate Component Services, Threading, Remoting, Windows services, web.
6. Understand and be able to explain Security in the .NET framework and Deployment in the .NET.

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