

C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: Computer Science

Course: Bachelor of Computer Applications

Semester: III

Subject Code: 4CS03ADT1

Subject Name: .Net programming using C#

Sr.	.Branch Code	¹ Subject Code	Subject Name	Teaching hours/ Week			G 124	Evaluation Scheme/ Semester									
				Th			hours	Credit Points	Theory				Practical				
110					т.,				Int	Internal End Semester		Internal		End Semester			
					ıuı	FI			Assessment Ex		kams	Assessment		Exams		Total	
									Marks	Duration	Marks	Duration	Marks	Duration	Marks	Duration	
			.Net						15(SE)	1Hr.			50(IP)				
1	2	4CS03ADT1	programming using C#	4		4	8	6	15(CE)		70	2½ Hrs.	50(CE)	1 ½ Hrs.			200

AIM:

The students would be able to:

- Learn the fundamentals of the Microsoft Visual C# .Net programming language
- Become familiar with Visual Studio IDE.
- Be aware of the real functions of desktop application development

COURSE CONTENTS

Unit I Understanding .NET Platform

10 Hrs.

- Introduction to .NET Framework
- Components of .NET Framework (CTS, IL, CLS, Managed Code, Garbage Collection, JIT)
- Benefits

Unit II Introduction of C# .NET

12 Hrs.

- About C#
- Why C#?
- Evaluation of C#
- Characteristics & Applications
- Difference between C# & C++, C# & Java
- Different Types of C# Application (Console, Windows,
- Web and Web Services)
- Creating Simple Console Program
- Executing the program
- Program Structure
- Understanding Main Method
- Namespace
- Comments

Unit III C#.NET Programming

10 Hrs

- Data types (Value type and Reference Type)
- Variable
- Declaration and Initialization of variable

- Scope of variable
- Operators
- Decision Making Statement
- Looping Statement
- Working with Arrays

Unit IV Windows Application

16 Hrs.

- Overview of Windows Application
- Creating and use of Windows Application
- .NET Events Mouse, Keyboard
- Common Properties, Methods and Events of Controls
- MessageBox

Unit V Windows Controls

16 Hrs.

- Creating Windows Form
- Button
- Label
- TextBox
- RadioButton
- ComboBox
- CheckBox
- ListBox
- ScrollBar
- PictureBox
- Timer
- Panel and Group
- TreeView
- ToolTip
- ProgressBar.
- Menus: MenuStrip
- Dialog Boxes: OpenFileDialog, SaveFileDialog,
- FontDialog, ColorDialog
- MDI: Introducing MDI Concept, Use of MDI

Unit VI ADO .NET

- Introduction of ADO .NET
- Benefits of ADO .NET
- ADO V/S ADO .NET
- Connected and Disconnected architecture
- ADO .NET Classes: Connection, Command, DataReader,
- DataSet, DataAdapter, DataTable, DataRow,
- DataColoum
- DataGridView control
- Binding standard and GridView control.
- Introduction of Crystal Reports

REFERENCE BOOKS:

- 1. Programming C# E Balaguru Swami Tata McGraw-Hill ISBN: 9780070702073
- 2. C# .NET Programming Black Book Stevan Holzner DreamTech Press ISBN: 9788177228328
- 3. Professional .NET Framework 2.0 Joe Duffy John Wiley Publication ISBN: 9788126507931
- 4. Microsoft ADO .NET 2.0 Step By Step Rebecca Riordan Microsoft Press ISBN: 9780735648456