SARDAR PATEL UNIVERSITY

Programme & Subject: M.Sc – Information Technology (Integrated)

Semester: IV

Syllabus with Effect from: June-2013

Paper Code: PS04CIIT03		
Title Of Paper: Visual Programming Through VB.NET		Total Credit: 3
Unit	Description in detail	Weightage (%)
I	Introduction to .NET Framework and VB.NET	,, e.gg. (, v)
	NET Architecture, .NET Languages, Microsoft Intermediate Language	
	(MSIL), The Just-In-Time (JIT) compiler, Working with Assemblies, The	
	.NET framework class library	
	VB.NET - introduction, applications and types of project	250/
	Introduction to Visual Studio IDE	25%
	Creating simple Windows Application using VB.NET	
	Variables, data types, constants and operators	
	Type casting, Boxing and Unboxing,	
	orking with arrays and strings	
	Creating simple Windows Application using VB.NET	
II	VB.NET Basics	
	Use of conditional statement (if), multi branaching statement (select) and	
	WithEnd With statement,	
	Looping Statement: DO, FOR, FOR EACHNEXT and WHILE, Working	
	with EXIT, CONTINUE and WITH statements	
	Working with procedures – introduction, types, use of parameters, parameter	25%
	passing, calling procedures	
	OOP concepts - Encapsulation, Inheritance, Interfaces and Polymorphism	
	Working with modules, classes (partial) and namespaces	
	Working with Windows Forms – introduction, life cycle, basic properties,	
	methods and events, use of simple windows forms control.	
	Working with SDI and MDI forms	
III	Developing Windows Forms, Exception Handling	
	Working with basic controls – Button, Check Box, Checked List Box, Combo	
	Box, Date Time Picker, Group Box, HScroll Bar, Radio Button, Vscroll Bar,	
	Label, List Box, Picture Box, Text Box and Time controls.	25%
	Working with advanced controls – Link Label, Rich Text Box, Color Diolog,	
	Font Dialog, Tree View, Working with modules, classes (partial) and	
	namespaces	
	Error Handling: exception, structured exception using trycatch and final	
TX 7	statement	
IV	Persisting Data Using Databases and Files	
	ADO.NET – introduction and applications	
	ADO.NET – architecture (connected and disconnected)	25%
	Database connectivity using ADO.NET	
	Use of Data sources, Server Explorer and working with Data Set	
	Populating data in a Data Grid View,	
D . T	Working with files	

Basic Text & Reference Books:-

- Steven Holzner; VB.NET Black Book by Dreamtech publication
 Francesco Balena: Programming Microsoft Visual Basic.NET, Microsoft Press
- ➤ Bill Evjen, Billy Hollis, Bill Sheldon, Kent Sharkey and Tim McCarthy: Professional VB 2005 with .NET 3.0

