

Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj
Master of Science (Computer Applications & Information Technology)
Semester: IV

Paper Code: CCCS413		Total Credit : 4
Title of Paper: Windows Programming with VB.Net		Total Marks : 70
		Time : 3 Hrs
Unit	Description	Weighting
I	.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 Introduction to Visual Studio IDE Creating simple Windows Application using VB.NET Variables, data types, constants and operators Type casting, Boxing and Unboxing,	20%
II	Working with arrays and strings Creating simple Windows Application using VB.NET Use of conditional statement (if), multibranching statement (select) and With...End With statement, Looping Statement: DO, FOR, FOR EACH.NEXT and WHILE, Working with EXIT, CONTINUE and WITH statements Working with procedures – introduction, types, use of parameters, parameter passing, calling procedures OOP concepts - Encapsulation, Inheritance, Interfaces and Polymorphism	20%
III	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 Working with basic controls – Button, CheckBox, CheckedListBox, ComboBox, DateTimePicker, GroupBox, HScrollBar, RadioButton, VscrollBar, Label, ListBox, PictureBox, TextBox and Time controls. Working with advanced controls – LinkLabel, RichTextBox, ColorDialog, FontDialog, TreeView	20%
IV	Working with modules, classes (partial) and namespaces ADO.NET – introduction and applications ADO.NET – architecture (connected and disconnected) Database connectivity using ADO.NET Use of Data sources, Server Explorer and working with DataSet Populating data in a DataGridView	20%
V	Error Handling: exception, structured exception using try...catch and final statement ArrayList Collection ,HashTable, Searching and Sorting an Array, SortedList Class, Char Class, String Class, DateTime Class, StringBuilder Class, Serialisation Class, TimeSpan Class, Directory Class, File Class, DirectoryInfo Class, FileInfo Class, Path Class File Access by FileStream, StreamReader, Stream Writer, BinaryReader and Binary Writer	20%
Basic Text & Reference Books :-		
1.	Mastering VB.Net, by E.Petroutsos	
2.	VB.Net Black Books, by Steven Holzner.	

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Unit	Description	Total Marks	Total Marks
All	Q.1 (A) Multiple Choice Question.	06	14
	Q.1 (B) Answer the following. (With Internal Option) (Definitions, Blanks, Full Forms, True/False, Match the Following)	08	
I, II	Q.2 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
II, III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
III, IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) VB.Net Program. (With Internal Option)	08	
IV, V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) VB.Net Program. (With Internal Option)	08	