

Subject Code:2CS1010303	Subject Title: Desktop Application Development-I
Pre-requisite:	Concept of Variable and Control Statements

Course Objective:

This course is intended to make the students aware of Desktop Application Development environment. By this subject students will focus about client side designing concept using VB.NET with Visual Basic language. They will learn about GUI (Graphical User Interface) development for VB.NET Form base. More focus on all major tools use as properties, methods and events. They will also learn event driven programming concept by this subject.

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)								Total
Lecture	Tutorial	Practical	Credit	Theory				Practical				
				University Assessment		Continuous Assessment		University Assessment		Continuous Assessment		
				Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	
3	-	2	4	28	70	12	30	12	30	8	20	150

Subject Contents				
Sr. No.	Topics	Total Hours	Weight (%)	
1.	Basic Concepts of Framework : Introductions about Package environment , History of .NET framework , Versioning , .NET Framework , components like CTS , CLS , CLR. CL , BCL , Meta data concept in .NET. , Visual Studio version , IDE components (Solution explorer , Form , Toolbox, Property windows) of Visual Studio.	10	20	
2.	Programming Concept : Variable declaration , Operator , Event and Event driven programming , Control statement – Decision making , Looping , Branching, Basic Tools Types.	10	20	
3.	Basic Tools for Desktop Application Development : Data Entry tools : Textbox , Rich Textbox , Data Selection Tools : Combobox , Listbox , Radio Button , Check Box Data Display tools : Label , Picture Box , Scroll Bar , Track Bar Auto Execution Tool : Timer , All tools Common properties , Special properties , Method / Functions and Events with examples	10	20	
4.	Intermediate Tools for Desktop application Development : Tab Control ,Data items managing tools : Tree view , List View , Dialog Box base tools : Open , Save , Font , Color , Print Dialog box tools with its properties , methods / functions and Events with example	9	20	

5.	Libraries and MDI : Library functions of VB.NET : String , Numeric and Date and Time. Concept of MDI , Menu with properties , methods and events , Context menu with properties , methods and events	9	20
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Course Outcomes:

At the end of this course, the student would be able

- To understand event driven programming concept .
- To understand and implement client side designing.
- To understand the major tools , tools types with its properties , method and events.
- To understand and implement Desktop Application Development environment software.
- To understand with concept clear about Project development as Client level.

List of References:

1. Mastering in Visual Basic .NET by EvangelosPetroutsos – BPB publication
2. An Introduction to programming using Visual Basic .NET by David I. Schneider – PHI Publications
3. Programming in VB.NET for Beginners by Keyur Shah &Parimal Patel – Books India Publication
4. Programming by VB.NET by Dr. ShyamChavda – Books India Publication.

E-Resources/ WebLinks:

- <https://www.tutorialspoint.com/vb.net/index.htm>
- <https://www.javatpoint.com/vb-net>
- <https://www.guru99.com/vb-net-tutorial.html>
- <https://docs.microsoft.com/en-us/dotnet/visual-basic/>
- <http://vb.net-informations.com/>
- <https://www.youtube.com/user/abhijeetwithnewlearn>

List of Experiments:

Note: The experiment list provided beneath is for reference only. The course teacher may change/formulate it as per his/her methodology and requirement.

1. Create VB.NET application as simple calculator.
2. Create VB.NET application as message box and Form load event.
3. Create VB.NET application suitable as Label.
4. Create VB.NET application suitable as Textbox.
5. Create VB.NET application suitable as Combobox.
6. Create VB.NET application suitable as Listbox.
7. Create VB.NET application suitable as Radibutton.
8. Create VB.NET application suitable as Check box.
9. Create VB.NET application suitable as Scroll Bar.
10. Create VB.NET application suitable as Track Bar.
11. Create VB.NET application suitable as Picture Box.
12. Create VB.NET application suitable as Timer.
13. Create VB.NET application suitable as DateTime picker.
14. Create VB.NET application suitable as Rich text box.
15. Create VB.NET application suitable as Tab control.
16. Create VB.NET application suitable as List view.
17. Create VB.NET application suitable as Tree view.
18. Create VB.NET application suitable as String library function.
19. Create VB.NET application suitable as Numeric library function.
20. Create VB.NET application suitable as Date and Time library function.
21. Create VB.NET application suitable as Menu.
22. Create VB.NET application suitable as Context menu.