



Information Booklet

Course Name:
Programming in VB.NET
Course Code: P4



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Programming in VB.NET (Basics)

1. Introduction:

Visual Basic was designed to be easily learned and used by beginner programmers. The language not only allows programmers to create simple applications, but can also develop complex applications. Programming in VB is a combination of visually arranging components or controls on a form, specifying attributes and actions of those components, and writing additional lines of code for more functionality. Since default attributes and actions are defined for the components, a simple program can be created without the programmer having to write many lines of code.

2. Eligibility:

XII th Pass and above

3. Duration:

80 Hours. Two and half hours each day

- Theory 20 hours
- Practical 60 hours

4. Course Details:

Type of course	Professional IT Course
Syllabus	<ol style="list-style-type: none"> 1. Programming Concepts <ol style="list-style-type: none"> a. Flowcharts b. Algorithms c. Data Flow Diagrams d. Software Life Cycle 2. Getting Started with .Net <ol style="list-style-type: none"> a. Type of application architecture b. The .net framework c. Introduction to Visual basic .net d. Visual studio .net integrated development environment 3. Creating windows form <ol style="list-style-type: none"> a. Visual basic .Net language feature b. Working with form 4. Implementing object – oriented Programming in visual basic .Net 5. Introduction Procedures and common Dialog classes in Visual Basic .Net <ol style="list-style-type: none"> a. Introduction top common dialog classes

6. Working with ADO.Net
 - a. The ado.net object model
 - b. Connecting to a database
7. Accessing and Manipulating data
 - a. Implementing complex data binding
 - b. Implementing simple data binding
 - c. Filtering and sorting Data
 - d. Displaying Data from Multiple table
8. Performing data updates
 - a. Updating data
 - b. Maintaining data concurrency
9. Creating report
 - a. Data access to crystal report
10. Creating menus and working with MDI application
 - a. Menu in Vb.Net
 - b. Introduction to the toolbar and image list controls
11. Performing file I/O operations and implementing multithreading in Vb .Net
 - a. Performing file I/O operation
 - b. Threads
12. Exception handling and debugging
 - a. Handling Exception
 - b. Handling Errors
 - c. Debugging application
 - d. Tracing and Debugging Application
 - e. Searching for Bugs
13. Providing application assistance
 - a. Creating help system
 - b. Displaying context sensitive help
 - c. Creating help
14. Creating Components
 - a. Introduction to components
 - b. Component architecture in .Net
 - c. Component Classes
 - d. Life Cycle of a component
 - e. Creating Components
15. Introduction use controls and managing components
 - a. User controls
 - b. User control class
 - c. Creating customize user controls
 - d. Creating customer control form the control class
16. Creating and using web services
 - a. Introduction to web services
 - b. Creating a web service

	<ul style="list-style-type: none">c. Using a web service in a windows applicationd. Using web services in web application <p>17. Deploying .Net application</p> <ul style="list-style-type: none">a. Deploying project editorsb. The file systems editorc. Registry editord. File type editore. User inter face editorf. Customer action editorg. Launch condition Editor <p>18. Project Development (so as to understand development of forms, control of forms, reports and dynamic web application)</p>

5. Fee:

4000 Rs. (exclusive of all taxes)