Course Description

Teaches application of advanced object-oriented techniques to application development. Course emphasizes database connectivity, advanced controls, Web forms, and Web services using Visual Basic.NET. Lecture 4 hours per week.

Recommended Co-requisites or Pre-requisites

Pre-requisite ITP 112

Course Objectives

Upon completion of this course, the student will be able to:

- To do database processing.
- Work with multiple database tables.
- Use dialog controls common to Windows.
- Use structured error handing.
- Create a multiple document application.
- Create reusable components with classes.
- Write ASP.NET application.
- Deploy a VB.NET Application.

Course Content

- Create menu system for a form.
- Create event handlers for menu.
- Use a database.
- Basics of ADO.Net.
- Define connection to a database.
- Use data-adapter to retrieve data from database.
- Use dataset class.
- Bind controls to a dataset.
- Navigate between records.
- Modify database records.
- Bind control instances to display multiple rows from a table.
- Define a dataset relation.
- Bind data grid controls.
- Synchronize two data grids.
- Save dataset changes back to a database.
- Format a data grid.
- Navigate through a dataset and data table.
- Create an error handler that will execute when a run time error occurs.
- Work with rich text files.
- Link to Web pages.
- MDI applications.
- Merge menus in MDI applications.
- Sharing code between forms.
- Learn about MDI form events.
- Concept of components.
- Define a namespace.
- Create events in a class module.
- Create properties with Public variables and property procedures.
- Create enumerations.
• Use overloading.
• Basics of Active Server Pages.
• ASP.NET applications.
• Create HTML page in a ASP.NET application.
• Create controls and event handlers for Web Forms.
• Create a setup project with a wizard.
• Deploy to different media.