**THE MODULES – Day 27**

### DData-Centric Applications and ADO.NET

* The Managed provider
  + ADO.NET SQL Server managed Provider
  + OLEDB Managed Provider
* Understanding ADO.NET Architecture

### CConnecting to Data Sources

* Choosing a .NET data Provider
* Defining a Connection
* Managing a Connection
* Handling Connection Exceptions
* Connection Pooling

### PPerforming Connected Database Operations

* Working in a Connected Environment
* Building Command Objects
* Executing Commands That Return a Single Value
* Executing Commands That Return Rows
* Executing Command That Doesn’t Return any Value
* Using Transactions
* Applications Using All These Features

**THE MODULES – Day 28**

### BBuilding Datasets

* Working in a Disconnected Environment
* Building DataSets and DataTables
* Building and Saving DataSets
* Defining Data Relationship
* Modifying Data in a Data Table
* Sorting and Filtering
* Application Using All These Features

**THE MODULES – Day 29**

### RReading and Writing XML with ADO.NET

* Overview of XML Architecture in .Net
* Creating XSD schemas
* Loading Schema and Data into Dataset
* Writing XML from Dataset

### IIntroduction to LINQ

* The Role and Scope of LINQ
* Use of Extension Methods / Lambdas with LINQ
* Core LINQ Assemblies / Namespaces / Project Types
* Examining LINQ Query Operators
* The Query Operator - LINQ type relationship
* Building LINQ Query Expressions
* LINQ Over Objects

**THE MODULES – Day 30**

### LLINQ to SQL

* DLINQ-Centric Attributes and Types
* The Role of Entity Classes
* Creating Entity Classes using sqlmetal.exe / Visual Studio
* The Role of the DataContext
* Submitting Queries to Relational Databases

### EEntity Framework

* Building Entity Data Models
* Using Code First, DB First and Model First Approach
* Querying Entity Data
* Creating, Updating, and Deleting Entity Data