



LAKSHYA INSTITUTE OF TECHNOLOGY

BCA, BSc ITM and BSc CS

Affiliated to Utkal University

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DOTNET Course Syllabus

C# . NET

Introduction to C# Programming

- What is C#?
- Does C# Replace Java?
- Simple Program: Printing a Line of Text
- Memory Concepts

Variables and Data types

- Initialization of Variables
- Variable Scope
- Constants
- Value Types and Reference Types
- CTS Types

Operators And Statements

- Arrays and Strings

Object Oriented Programming

- Objects and Classes
- Methods and Properties
- Constructors and Destructors

Inheritance

Types of Inheritance

- Implementation versus Interface Inheritance
- Multiple Inheritances
- Structs and Classes

Delegates

- An Overview of C#.Net





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Polymorphism

- Abstract Classes
- Implementing Polymorphism by Method Overloading
- Implementing Polymorphism by Method Overriding
- Interfaces and Structures

Interfaces

- Defining and Implementing Interfaces
- Derived Interfaces
- Accessing Interfaces
- Overriding Interfaces

Structures

- Defining Structs
- Creating Structs
- Creating Enum

Exception Handling

- Exception Classes
- Standard Exceptions
- User Defined Exceptions

Building Windows Based Applications

- Standard Controls
- Components
- Forms
- Menus and Dialogues
- Validating user input

ASP . NET

Overview of ASP.NET

- Introduction to ASP.NET
- Configuring ASP.NET Applications





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Accessing Data with ADO.NET, Crystal Reports

- Overview of ADO.NET
- Accessing Data
- Using Dataset Objects and Updating Data
- Binding, Viewing, and Filtering Data
- Connecting With the Database

ASP.NET Frameworks

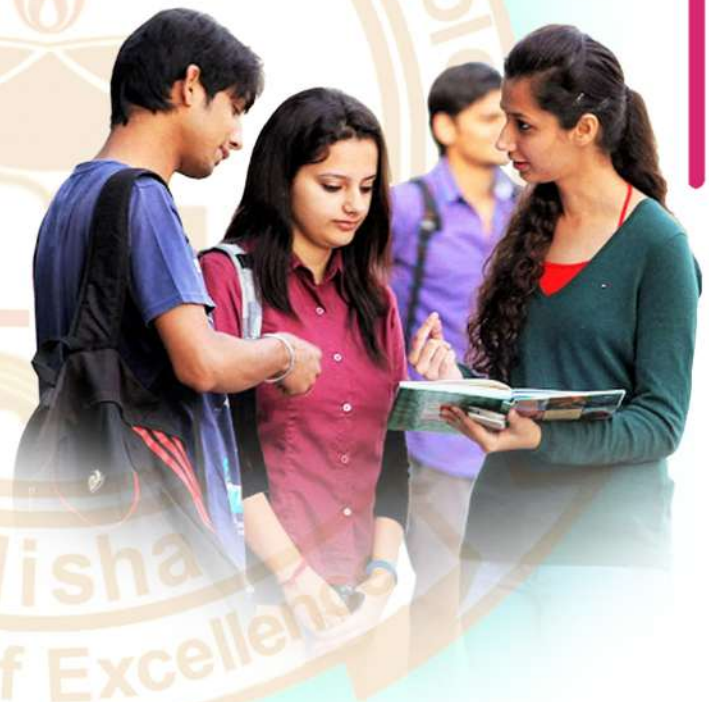
- Code Behind
- Page Directives
- Page Events
- What is Post Back?

Asp.net controls

- Basic Web Server Controls
- Label control
- Textbox control
- Button control
- Link button control
- Image button control
- Check box control
- Radio button control
- Hyper link control
- Image control

Data List Web Server Controls

- Checkbox List control
- RadioButtonList control
- DropDownList control
- ListBox control
- DataGrid control
- Repeater control





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Other Web Server Controls

- Calendar Control
- Adrotator Control
- Validation Controls
- Grid View Controls

Performing Data Access

- Using Databound Controls
- Working with List Controls
- Working Tabular Databound Controls
- Working Hierarchical Databound Controls
- Working with Other Controls
- Using Datasource Controls
- Using Asp.Net Parameters With Datasource Controls

Building Data Access Components

- Connected Data Access
- Using the Connection Object
- Using the Command Object
- Using the Datareader Object
- Disconnected Data Access
- Using TheDataadapter Object
- Using TheDatatable Object
- Using TheDataview Object
- Using The Dataset Object





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State Management, Web Services

- View State
- Session
- Cookies
- Application
- Hidden Field

Setup and Deployments

- Setup and Deploying Windows Applications
- To Create a Setup Project
- Building, Distributing, and Deploying a Setup Project



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