Syllabus for ASP .NET 4.5

GRADIENT INFOTECH

Course Duration for ASP .NET 4.5 Training Course

- **6 weeks**

Objective For ASP .NET 4.5 Training Course

- **To become a Professional Software Programmer**
- **To improve Placeability**

Eligibility for ASP .NET 4.5 Training Course

- **Any Technical Graduates
  (BSc, BCS, BCA, BE, B Tech, MSc, MCS, MCA, M Tech)**
- **Basic knowledge of Programming**

Course overview For ASP .NET 4.5 Training Course

ASP .NET 4.5

Introduction of .NET

- Introduction of .NET 4.5 Framework
- CLR
- CTS
- MSIL
- Garbage Collection

Introduction to Windows Programming

- Windows Programming
- Windows Controls
- Common Controls
- Container Controls
- Menus and Toolbars
- Printing
- Dialogs
- Deploying Windows Application and overview

Programming in C#

- Introduction of C#
- Language Features
- Variables, expressions and type conversions
- Flow control
- Arrays, Loops, Functions, Boxing and Unboxing

ASP .NET Controls and Graphics

- Introduction to ASP.NET
- ASP.Net Web Server Controls
- ASP.Net Page Life Cycle
- User Controls in ASP.Net
- Navigation Control
- Validation Control
- Login Controls
- Dynamic Graphics
- Basic Drawing
- Drawing a custom image
- Placing custom images inside Web Pages
- Image Format and Quality

Cascading Style Sheet (CSS)

- Introduction of Cascading Style Sheet
- Working with CSS
- Types of Style Sheet

ASP.NET 4.5

Master and Content Pages in ASP.Net

- Creating Master and Content Pages
- Simple Master Page, Nested Master Page
- Configuring Master Page, Creating Themes
- Applying Themes

State Management in ASP.NET

- ASP.Net State Management
- Using View State
- Session state and application state
- Using cookies and URL encoding
- ASP.Net Web Application Security
- Authentication
- Authorization
- Impersonation
- ASP.Net provider model
- Caching
- Output Caching
- Data Caching

Fundamentals of Database

- SQL
- Components of SQL
- Basic SQL Commands
- Triggers and Views
- ADO.Net
- Database Connectivity
- Data Binding
- Data bound controls

LINQ

- Introduction of LINQ
- LINQ Queries
- Standard Query operators
- LINQ to ADO.NET
- Lambda Expressions
- LINQ to XML

Working with MVC

- Introduction of MS.Net MVC Framework
- MVC Architecture
- How to start an ASP.NET MVC application
- The folders and files for a new MVC application
- Working with Views
- Working with controls

Web Services

- Web Services and Deployment
- Introduction to WCF, WPF and WF
- Creating a new WCF Service
- Using on click deployment
- Creating Web API Service

Project on ASP.NET 4.5

Student will be assigned a project which they will have to execute under the guidance of the faculty.