

## CS429 DISTRIBUTED COMPONENT OBJECT TECHNOLOGIES (J2EE/.NET)

### Course Description & Objective:

To understand the development of enterprise applications using 'java 2 Platform, enterprise Edition (J2EE) and .NET'. ADO.NET provides consistent access to data sources such as Microsoft SQL Server, as well as data sources exposed through OLE DB and XML.

### Course Outcomes:

After completing this course a student is capable of:

- Gain knowledge on J2EE architecture
- Distributive systems introduction
- EJB implementation
- ASP.net introduction
- Developing web controls

### UNIT I - Introduction To J2EE

J2EE Overview, Why J2EE?, J2EE Architecture, The Birth Of J2EE, Distributive Systems, The Tier, J2EE Multitier Architecture, Client Tier Architecture, Web Tier Implementation, EJB Tier Implementation, Enterprise Information Systems Tier Implementation, Myths Of Using Inheritance, Maintainable Classes.

### UNIT II - JDBC and Embedded SQL

Model Programs, Tables, Indexing, Inserting Data Into Tables, Selecting Data From A Table, Metadata, Updating Tables, Deleting Data From A Table, Joining Tables, Calculating Data, Grouping And Bordering Data, Subqueries, View. Struts Framework: What Is Struts?, Struts Architecture.

### UNIT III - Introduction to ASP and ASP.Net Server Controls

Introduction to asp, net FrameWork, asp.net, visual studio 2005-the Document window –views in the Document Window, the Tag Navigator, Page tabs, code change Status Notifications, Error Notifications and Assistance, the tool box, Solution Explorer, Server Explorer, Properties Window, Asp.net server Controls and Client- Side Scripts: Asp.Net Server Controls- Types of server Controls

Building With Server Controls. working with Server Control Event, Applying Styles to Server Controls –Examining the Controls Common properties.Html Server Controls- Html Control Base Class.

**UNIT IV - Web Server Controls**

Label Server Control, Leteral Server Control, Text Box Server Controlfocus(), AutoPostBack, Auto Complete Type,. Button Server Control- Causes Validation Property ,command Name Property, Asp.net Web Server Controls Bulleted List Server Controls, File Upload Server Control-Uploading Files Using the File Upload Control, Giving Asp.net Proper Permissions to Upload Files

**UNIT V - Data Binding in ASP.NET**

Data Source Controls - Sql Data Source Control, Xml Data Source Control, Object Data Source Control Site Map Data Source Control,. Configuring Data Source Control Caching, Storing Connection Information, Using Bound List Controls with Data Source Controls, GridView Editing, inserting, and Updating, and Deleting Data Using DetailsView, FormView, AD Rotator. Menu.

**TEXT-BOOKS :**

1. Jim Keogh "The complete reference J2EE", 2nd ed., Tata McGraw Hill publishers, 2007.
2. Bill Evjen, Scott Hanselman, Farhan Muhammad, Srinivasa Sivakumar, Devin Rader, "ProfessionalASP.NET 2.0", 1st ed., WROX Publishers; 2005.

**REFERENCE BOOKS :**

1. Herebertschildt " Java 2 complete reference" 5th ed., TMH, 2008.
2. Black " Java server programming" J2EE, 1st ed., Dream Tech Publishers, 2008.
3. Kathy walrath " The J2EE tutorial" , 1st ed., Addison Wesley Publishers, 2005.
4. Kathleen Kalata, "Introduction to ASP NET 2.0", 3rd ed., Cengage Learning; 2007.
5. Jesse Liberty, Dan Hurwitz, "Programming ASP.NET" , 3rd ed., OReilly; 2005.