

**MC303 MIDDLEWARE TECHNOLOGIES****Objective of the Course:**

*The main objective of this course is to get on awareness of a the various technologies which can help in the implementation of the various live project*

**UNIT - I (12 Hrs)**

**CORBA with Java:** Remote Method Invocation-RMI API-JDBC-Client/Server CORBA-style, The Object web: CORBA with Java.

**UNIT - II (12 Hrs)**

**Fundamentals of C# and .NET Platform:** Comprehensive .NET Assemblies; OOP with C#-Callback Interfaces, Delegates and events.

**Implementing C# Applications:** Type Reflection, Late Binding, and Attribute-Based programming; Object Serialization and the .NET Remoting Layer; Data Access with ADO.NET; XML Web Services.

**UNIT - III (12 Hrs)**

**Core CORBA/JAVA:** Two types of Client/Server invocations-static, dynamic. The static CORBA, first CORBA program, OR Blets with Applets, Dynamic CORBA-The portable count, the dynamic count multicount.

**Existential CORBA:** CORBA initialization protocol, CORBA activation services.

**UNIT - IV (12 Hrs)**

**Java Bean Component Model:** Events, Properties, Persistency, Interspersion of beans, CORBA Beans.

**UNIT - V (12 Hrs)**

**EJB and CORBA:** Object Transaction monitors CORBA OTM's, EJB and CORBA OTM's, EJB container frame work, Session and Entity Beans, The EJB client/server development Process The EJB container protocol, support for transaction EJB packaging EJB design Guidelines.

**Text Books:**

1. Client/Server programming with Java and CORBA Robert Orfali and DanHarkey, John Wiley & Sons, SPD 2<sup>nd</sup> Edition.
2. Java Programming with CORBA 3<sup>rd</sup> Edition, G.Brose, A Vogel and K.Duddy, Wiley-dreamtech, India John wiley and sons.

**Reference Books:**

1. C# and the .NET Platform Andrew Troelsen, Apress Wiley-dreamtech, India Pvt.Ltd.;
2. Distributed Computing, Principles and Applications, M.L.Liu,Pearson Education
3. Client/server survival Guide 3<sup>rd</sup> edition Robert Orfali Dan Harkey and Jeri Edwards, John Wiley & Sons
4. Client/Server Computing D T Dewire, TMH.