CS324 MIDDLEWARE TECHNOLOGIES

Course Description and Objectives:
The main objective of this course is to get an awareness of various technologies which can help in the implementation of various live projects.

Course Outcomes:
Upon completion of the subject, students will be able to:
- Understand the basic structure of distributed systems;
- Understand the motivation of using middleware;
- Understand the basic concepts underlying the ASP.net and C#.net;
- Learn to make judgment in choosing a suitable middleware for application problems;
- Understand the basic concepts of Web Services and EJB.

UNIT I - Emergence of Middleware
Introduction, Objects, Web Services, Middleware Elements, Vendor Architecture, interoperability, Middleware in distributed applications, Types of Middleware, RMI, JDBC, Client/Server CORBA Style.

UNIT II - ASP.NET
Introduction, Lifecycle, Server Controls, Basic Controls, Directives, Validators, Database Access, ADO.Net, File Uploading, Data Sources, Data Binding, Custom Controls, Security, Data Caching, Multithreading, Deployment.

UNIT III - Fundamentals of C# & .NET platform
Comprehensive .NET Assemblies, OOPs with C#, Attributes, Reflection, Properties, Indexers, Delegates, Events, Collections, Generics, Anonymous Methods, Unsafe Codes and Multithreading.

UNIT IV - Web Services
UNIT V - EJB
Java Bean Component Model, EJB Architecture, Session Bean, Java Message Service, Message Driven Bean, Entity Bean

TEXT BOOKS:

REFERENCE BOOKS: