



Advanced Java Pune University Syllabus

- **JDBC**

- The design of JDBC
- Basic JDBC program Concept
- Drivers
- Architecture of JDBC
- Making the Connection, Statement, ResultSet ,
- PreparedStatement, CallableStatement
- Executing SQL commands
- Executing Queries

- **Networking**

- The java.net package
- Connection oriented transmission – Stream
- Socket Class
- Creating a Socket to a remote host on a port
- (creating TCP client and server)
- Simple Socket Program Example.

- **Servlet**

- Introduction
- How It differ from CGI
- Types of servlet
- Life cycle of servlet
- Execution process of Servlet Application
- Session Tracking
- Cookie class
- Servlet- JDBC

- **JSP**

- Introduction to JSP
- Components of JSP
- Directives, Tags, Scripting Elements
- Execution process of JSP Application
- Building a simple application using JSP
- JSP with Database

- **Multithreading**

- Introduction to Thread
- Life cycle of thread
- Thread Creation
- By using Thread Class
- By Using Runnable interface
- Priorities and Synchronization
- Inter thread communication
- Implementation of Thread with Applet

- **Java Beans**

- What is bean
- Advantages
- Using Bean Development kit (BDK)
- Introduction to jar and manifest files
- The java beans API

- **Remote Method Invocation**

- Introduction to remote object RMI architecture
- Stubs and skeleton
- Registry
- Setting up RMI
- Using RMI with applet