Java/J2EE Training course details

Java Programming

Getting started
Learning the basics of Java language
Classes and Objects
Object-Oriented Programming (OOP) concepts
Collections framework
I/O & Networking & Database
Threading
Threading Basics
J2SE 5.0 Features
J2SE 5.0 Language Feature enhancements
J2SE 5.0 Generics
J2SE 5.0 Annotation

JDBC
Traditional JDBC
Connection pooling
Java EE Programming

JSP
Action Tags
Implicit objects
Custom tags

AJAX
Implementing AJAX with different browsers.
Session Beans: Stateless, Stateful
Entity Beans: CMP (including custom finders), BMP

Web Programming:
Servlets
Servlets and Session tracking

Struts
Struts Basics
Struts1.2 Validation and Tiles
How to use Validation framework
How to use Tiles framework

Java Server Faces (JSF)
JSF Basics
JSF Validations
JSF and JPA projects

Java EE Programming Advanced
EJB2.0 and EJB3.0 and differences in implementing,.,
EJB2.0:

EJB3.0
Session Beans: Stateless and Stateful

JPA (Java Persistency API):
Basics
Relational mapping with tables.

Hibernate
Basics
Mapping tables
Criteria API
Query, Named Query

Spring Framework
Basics and advantages
Spring DI, spring persistency, Spring MVC (Web).
Spring Dependency Injection:
Basic DI, Setter Injection
Constructor Injection and auto wiring.
Spring Integration with JPA
Spring Integration with Hibernate.
Configuring Hibernate with Spring using DI

Spring MVC
MVC Flow
Differences between MVC implementations in Spring Framework
BeanNamedURLMapping
SimpleURLMapping and simpleFormMapping

JMS, JAVA MAIL, MDB
Configuration of queues and topics and writing JMS clients, Writing MDB
Java Mail API

Web Services Programming
XML
XML Schema DTD
Java APIs for XML parsing and transformation
JAXP) SAX, DOM, XSLT
XSD, WSDL
JAX-WS and JAX-RPC
Data binding (JAXB)
Projects to provide students with hands-on experience.