

Java/J2EE Course Schedule V1.0

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JAVA/J2EE MENTORING SCHEDULE

CONCEPT 1

Software Development Life Cycle – Real Model Of Development in Industry
RUP/OOAD
UML (Dealt after Object Oriented Concepts Intro)

CONCEPT 2

Object Oriented Technologies
Programming Language semantics
Abstract classes and Interfaces
Exception Handling
Multithreading
Input / Output Streams, File I/O
Collections

CONCEPT 3

Database design in ORACLE/DB2

- DDL
- DML
- DCL
- TCL
- PL/SQL
- STORED PROCEDURES
- FUNCTIONS
- TRIGGERS
- CURSORS
- AGGREGATE FUNCTIONS
- INDEX
- JOINS

Quiz on topics of Concept1 & Concept 2

Concept 4

JDBC / JNDI
Statement
PreparedStatement
CallableStatement
Data Sources
DEMO ON JDBC/DATASOURCE

CONCEPT 5

Servlet Technology
Life Cycle
PrintWriter Vs OutputStream
ServletContext Vs ServletConfig
RequestDispatcher
Session Management
Servlet Security
Filters

CONCEPT 6

JSPs
Directives
Declarations
Expressions
Scriptlets
JSP Implicit Objects
Scopes
Custom Tag Development

CONCEPT 7

EJB Specification
EJB Middleware services



CONCEPT 8

- Session Bean
 - Stateless session bean
 - Stateful session bean
- Entity Beans
 - CMP
 - BMP

CONCEPT 9

- JMS
- MQ Series

CONCEPT 10

- Message Driven Beans
- EJBTransactions
- Transaction Attributes
- Isolation Levels
- Security

CONCEPT 11

- Struts Overview
- Action Mapping
- Action/ActionForm/DynaActionForm/DispatchAction

CONCEPT 12

- Validation Framework
- ValidatorForm/DynaValidatorForm
- Java Script Validations



CONCEPT 13

Struts Tiles Framework

CONCEPT 14

XML
XMLSCHEMA
DTD

CONCEPT 15

JAXP
SAX
DOM
JAXB

CONCEPT 16

Web Services
WSDL
Publishing web service
Code based approach
Schema based approach

CONCEPT 17

Consuming web service
➤ STUB
➤ DYNAMIC PROXY
➤ DII
Designing complex workflow webservice

CONCEPT 18

Introduction to Hibernate
Hibernate.cfg.xml
Writing POJO classes

CONCEPT 19

Hibernate Mappings
CreateCriteria/Query Components
Hibernate Transactions
Hibernate DEMO

CONCEPT 20

Introduction to JSF
JSF Vs Struts

CONCEPT 21

Introduction to Spring
Configuration / Features

CONCEPT 22

Spring Integration with Struts/Hibernate/EJBs

CONCEPT 23

Introduction to JUnit
Develop a sample project with JUnit
Log4j integration



CONCEPT 24

ANT
build.xml for enterprise application deployment

CONCEPT 25

Microsoft Visio/Rational Rose/CVS

CONCEPT 26

Design Patterns

CONCEPT 27

CASE STUDY

CONCEPT 28/CONCEPT 29/CONCEPT 30

Project Description and Implementation