

1. Oops:

Brief history of computing.
Software in real world.
IBM canvas.
About licensing.
Object oriented programming.
OO analysis.
UML basics.
UML advanced.
Encapsulation, polymorphism and abstraction.
Class and object.

2. Core Java

Getting started
Identifiers, keywords and types.
Expression and flow control.
Arrays.
Class design.
Advanced class features.
Exceptions and assertions.
Text based application.
Java GUI
Threads.
Advanced I/O streams.
Networking.

3. Scripting

VBScripts:

VB script and web
Variables, subtypes and constants.
Arrays.
Operators and Procedures
Program control and structure.
Strings and numbers.
Message and input boxes.
Dates and times.
The document object model.
Event handler.

Javascript:

Javascript overview and syntax
Javascript types and variables.
Operators.
Conditional statement and looping system.
Function and object.
Event handling.

Ajax:

Ajax and xml overview.
Xml.
Javascript.
Document object model.
Xml http request object.
Css.
Xml and ajax.
Frameworks and toolkits-overview.
Object overview javascript.
Model view control.
Javascript object notation.
XSLT.
Xpath.
Drag and drop.

4. J2EE - RAD

Introduction to java EE over component.
Java EE perspective of rational application development.
Java EE container services overview.
Servlet API.
Library case study.
Overview of java server pages.
Java server pages specifications and syntax.
Page designer in rational application development.
Debugging web application.
Web archive deployment describer.
Session state storage issues.
Cookie API.
http-session :management of application data.
URL rewriting.
Best practice for session management.

Java beans and the MVC pattern.

Java server pages with javabeans.
JSP expression language.
JSP custom tags.
JSP tag files.
Servlet filtering.
Servlet listness.
Best practices for servlet side application development.
Java EE packaging and development.
Installing an application in websphere servlet v7.0.
Web application security.

5. JQuery And JSon

JQuery home, introduction, syntax.
JQuery selectors, events, effects.
JQuery html, ajax.
JQuery callback.
JQuery css.
JQuery reference.
JQuery MISC.
Java script object and array creation using literals.
Object in arrays and array in object Json syntax.
Json parsers.
Json data transfer between client and server.
Autosuggest example.

6. Frameworks

STRUTS:

Introduction to struts.
Overview on MVC design pattern.
How the struts framework applies MVC.
How request are handled in struts.
Struts main components.
The controller component.
Struts configuration files.
The view components.
Internationalization and multiple languages views.
The model components.
Struts validator framework.

JSF:

Review: servlets, jsp, web apps, MVC, eclipse.
JSF 2.0 overview, big ideas, pros/cons.
Installation, setup, configuration and getting started.
JSF 2.0 programming basics.
Managed beans
Explicit page navigation control control.
The JSP 2.0 expression language.
Properties files, message, and 118N.
Handling GUI events.
Integrated Ajax support in JSF 2.0.
Validating user data.
Handling variable-length results data
Data tables.
Page templating with facelets.
Building composite components.
View parameters, GET requests and bookmarking.
Primfaces
SPRING:
Introduction.
Session beans.
JNDI overview.
Stateful session beans.
Message-driven beans.
Transaction in EJB 3.
Security.

HYBERNATE:

Introduction to ORM.
Introduction to hibernate.
Hibernate configuration file and mapping files.
Session operations.
Hibernate strategies.
Mapping of relation.
Lazy loading.
Fetching strategies.
Querying using HQL, criteria and QBE.
Hibernate caching.

7. Application Server

WEBSHERE:
 Websphere family.
 Various WAS editions.
 Deployment enterprise application.
 Configuration enterprise application.
 J2EE services.
 Distributed services and repositories.
 Clusters and topologies.
 Troubleshooting and monitoring.
 Scripting tools.

APACHE TOMCAT
 Introduction to apache tomcat.
 Installing apache tomcat.
 Deploying JSP servlets.
 Apache tomcat manager application.
 Apache tomcat administration command line.
 Configuration files-web.xml.

Weblogic Server Basics
 Understanding TCP/IP and HTTP
 Weblogic Application server
 Weblogic 11g/12c Features
 Differences between versions (8.x, 9.x, 10.x,11.x)
 Weblogic system administrator
 Infrastructure
 J2EE Components
 Servlets
 JSP
 EJB
 Resource Adapter

Application Deployment
 Auto Deployment
 Deployment tools
 Cluster Deployment
 JMS application
 Configuring JMS
 Weblogic JNDI

JBoss
 JBoss Organization
 History of JBoss AS
 Features of JBoss AS
 JBoss AS Architecture
 JBoss AS Services
 JBoss AS Requirements
 Differences between JBoss Versions 4.x, 5.x, 6.x, 7.x

Deployments
 J2EE Development/Deployment Lifecycle and Roles
 Deployment Descriptors (DTDs vs. Schemas)
 Deployment on JBoss AS
 JBoss Deployers (WAR, EAR, EJB, JAR, RAR, SAR, HAR, etc.)
 Deployment Dependencies
 Hot vs. Cold Deployment
 JBoss conf/jboss-service.xml file
 XMLEans

8. Database

Oracle ;

1.SQL Statements
 SQL SELECT
 SQL INSERT
 SQL UPDATE
 SQL DELETE
 SQL CREATE TABLE
 SQL ALTER TABLE
 SQL RENAME
 SQL TRUNCATE
 SQL DROP

2.SQL Clauses
 SQL WHERE
 SQL ORDER BY
 SQL GROUP BY
 SQL HAVING

3.SQL Operators

SQL Logical Operators
 SQL Comparison Operators
 SQL LIKE, IN, ISNULL, BETWEEN..AND

4. SQL Integrity Constraints
 Primary Key Constraint
 Foreign Key Constraint
 Not Null Constraint
 Unique Key Constraint
 Check Constraint

SQL Commands
 SQL Aliases
 SQL Group Functions
 SQL JOINS
 SQL VIEWS
 SQL Subquery
 SQL Index
 SQL GRANT, REVOKE

MYSQL:

Introduction.
 Database and table.
 MySql data types.
 Functions.
 PHP MySql interface.

MSSQL:

data modules.
 Implementing relational database using MS-SQL server.
 Querying databases, creating database and tables
 Functions and joins.
 Managing data and implementing indexes.

PL/SQL:

Overview of PL/SQL programs.
 Creating procedures.
 Creating functions.
 Managing subprograms.
 Package
 Triggers
 Managing dependencies
 Query triggers.
 Transaction processing.
 Menu models
 Defining data source