

Java EE

Static website development

- Basics of Web
- Difference between static and dynamic website
- (X)HTML
- CSS
- Templates & Website Hosting
- JavaScript
- JQuery

Dynamic website development

Introduction to Java EE

Setting up the servlet container (Apache Tomcat) and IDE (Eclipse)

Discussion some important concepts from Java SE

- Annotations

Servlets

- Basics concepts in Java Servlet
- Life Cycle of Servlets
- Deployment Descriptor (web.xml)
- Calling servlets from servlets [get n post]
- Cookies, Sessions
- ServletContext, ServletConfig
- Response redirection
- Request Dispatcher
- Request Headers, Response Headers
- Status Codes
- Servlet collaboration: filtering and chaining

JSP (Java Server Pages)

- JSP Life Cycle
- Inbuilt objects
- JSP comments
- JSP expressions
- JSP scriptlets
- JSP declarations
- JSP directives
- JSP actions
- Working with Templates
- State management
- Java Beans

EL (Expression Language)

JSTL

JDBC (Java database connectivity)

- Type of drivers
- Basics of SQL
- executing SQL using statement
- executing SQL using preparedstatement

File uploading and downloading

XML programming

Sending email using JavaMail API

AJAX

Using Captcha

Web services

MVC (design pattern)

Struts 2

- Quick Start
- Configurations
- Actions & Form
- Interceptors
- UI tags
- Control tags
- Validators
- Data Tags
- Theme

Spring

- Introduction and architecture of Spring
- Inversion of Control container (dependency injection)

Hibernate

- Features of Hibernate
- Hibernate vs JDBC
- ORM and its Advantages

Project