

Objective:

This course focuses on Enterprise Web Applications Development in JavaEE.

Theory:**UNIT I**

Introduction to Enterprise Architecture, Multitier Architecture, The JavaEE Platform, Introduction to JavaEE APIs (Servlet, JSP, EJB, JMS, JavaMail, JSF, JNDI), Introduction to Containers, JDBC.

UNIT II

Web Tier, Web Applications Architecture, Deploying and undeploying web modules, JSF, Facelets, Expression Language, AJAX, Servlets, Session Tracking Approaches, URL Rewriting, Cookies, Session API, Session Tracking with Servlet API

UNIT III

Web services, Working with XML, SOAP, WSDL, REST, JAX-WS and JAX-RS.

UNIT IV

Enterprise beans, Session beans, Bean Lifecycle, Message driven Bean.

UNIT V

Introduction to Hibernate and Struts. Persistence, Java Persistence API, Concurrent Access control, Security.

Practical:

1. Shopping cart.
2. Auction site.
3. Inventory.
4. Shipping order management.

Reference books:

- 1 Web Development using Java, Tim Downey, Springer.
- 2 The Java EE 6 Tutorial, Erric Jenderock, Addison-Wesley.
- 3 JSP 2.0: The Complete Reference, P.Hanna, Tata McGraw-Hill