

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
M.Sc. (I.T.) [Five Years Integrated Course]
M.Sc. (Information Technology)
2nd Semester Syllabus

Effective From July-2003

Paper No : 802

Paper Title : Web Application Development Techniques – II. (Servlets, Java Beans)

[L : 4, P : 0 Hrs]

PART – I (Java Servlets)

1. INTRODUCTION TO SERVLETS.

- 1.1. Servlets Basics.
- 1.2. Servlets API Basics.

2. ADVANCED SERVLET CONCEPTS.

- 2.1. Writing Thread-Safe Servlets.
- 2.2. HTTP Redirects.
- 2.3. Cookies.
- 2.4. Request Forwarding
- 2.5. Database Access with JDBC.
- 2.6. Security.
- 2.7. JavaServer.
- 2.8. Packaging and Deployment.
- 2.9. Servlets Troubleshooting.

PART – II (Enterprise JavaBeans)

1. Objectives

2. Overview

3. Enterprise JavaBeans Technology

- 3.1. The EJB Container
- 3.2. Enterprise Beans
 - 3.2.1. Remote and Home Interfaces
 - 3.2.2. Business Methods
 - 3.2.3. Entity Beans
 - 3.2.4. Session Beans
 - 3.2.5. Life Cycle Methods
 - 3.2.6. Back to the Remote and Home Interfaces
- 3.3. Enterprise Beans as Distributed Objects

4. Entity Type Enterprise Beans

- 4.1. Container-Managed Persistence
 - 4.1.1. Bean Class
 - 4.1.2. Home Interface
 - 4.1.3. Remote Interface
 - 4.1.4. Callback Methods
- 4.2. Bean-Managed Persistence

5. Session Type Enterprise Beans

- 5.1. Stateless Session Beans
- 5.2. Stateful Session Beans

6. Deploying Enterprise JavaBeans Technology Solutions

7. Enterprise JavaBeans Clients

Main Readings :

1. Developing Java Servlets – James Goodwill – Techmedia
2. Java Servlets – Karl Moss – TMH
3. Enterprise Java Beans – Richard Monson.

Supplimentary Readings :

1. Programming Java Server Pages & Servlets – V. K. Jain
2. Java Beans Developers Reference. – Dan Brookshier.