

# AMSW17 ADVANCED JAVA PROGRAMMING

## UNIT-1 INTRODUCTION TO ADVANCED JAVA

- 1.1 Java Streaming- Components and events handling
- 1.2 Threading concepts- Networking features- Byte code interpretation- Media Techniques.

## UNIT-2 JAVA APPLETS AND BEANS

- 2.1 Applets and HTML- Bean Concepts- Events in Bean Box- Bean customization and persistence
- 2.2 JavaScript- Combining scripts and Applets- Applets over web- Animation techniques- Animating images.

## UNIT-3 ADVANCED NETWORKING

- 3.1 Java Socket and URLs- Socket and Interprocess Communication- Client/Server Methodology- Content and Protocols handlers
- 3.2 Developing distributed applications- CORBA and IIOP- Interfaces- RMI- Remote objects- Object serialization.

## UNIT-4 JAVA DATABASE PROGRAMMING

- 4.1 Inside JDBC- Connecting to Databases- Basic steps of JDBC- Databases and SQL
- 4.2 Retrieving Information- Storing Information- Accessing Multimedia databases
- 4.3 Working with database metadata- Database support in Web applications.

## UNIT-5 WEB SERVERS, SERVER-SIDE JAVA, AND MORE.

- 5.1 Inside an HTTP Server - Web Server Architecture, The HTTP Protocol, Using a Web Server, Advanced Web Server Features, HTTP Server Overview
- 5.2 Common Gateway Interface and CGI Scripts - Servlets - Dynamic Documents, Creating the Servlet.
- 5.3 A Servlet Version of the Featured App. do Get( ). get Appointments ( ). New Appointment Form ( ). Insert New Appointment ( ). JSP - Setting up the JSP environment, Generating dynamic content.

### Reference Books:

1. Eric Jendrock, Ian Evans, Devika Gollapudi, Kim Haase, Chinmayee Srivathsa, “The JavaEE6 Tutorial Basic Concepts”, 4/E, Pearson Education, 2011.
2. Hans Bergsten, “Java Server Pages”, 3/E, O'Reilly Media, 2004.
3. George Reese, “Database Programming with JDBC and Java”, 2/E, O'Reilly Media, 2000.