Training Objectives: -

This training is designed so that participants will effectively learn to use both JAVA and Advance JAVA in creating advanced web applications that are efficient and secure. The Advance Java programming language provide a powerful, open, and free platform for developing Software and Web sites.

DURATION: 4 WEEKS (80 Hours)
FEE : RS. 6000/-(Inclusive of Service .Tax)*
ELIGIBILITY: B.E / B.TECH. in CS/IT/EC/EI/ IInd/ IIIrd/ IVth Year Students or MCA/M.Sc (IT/CS/Electronics), Diploma in any Stream
Form Fee Rs 50.00 Extra

How to Apply:

For Admission, submit your college reference/training letter along with fee of Rs 6000 (either in Cash or Demand Draft in favour of "**NIELIT, Gorakhpur**". The application form may be downloaded from our website or collected from reception.

Accommodation:
Hostel accommodation is available for Male candidates only.

Training Highlights
- Well Managed Course pattern
- Daily Handouts & Lab Exercise
- Industry Compliant Syllabus
- Use of Latest Tools & Technology
- LAB Assistance

Course Contents (Syllabus of Training)

Introduction to JAVA
History of Java, Java Programs, analyzing Client Requirements, Converting C++ code to Java

Accepting Data From a User

Need for a User Interface, Types of User Interface,

Components of a GUI, The Abstract Window Toolkit, Java Foundation Classes (JFC), Accepting Data from a User

Creating a Web Based Java Program

More about Applets, Creating Applets, and Adding Image.

Layout Managers

Using Layouts, Layout Managers, Organizing Controls

Handling Events

Event Handling, Event Driven Programming, Components of an Event, Need for Interface, The Delegation Event Model, Retrieving and Validating Data.

Exception Handling

Definition of an Exception, Rectifying Runtime Errors, User Defined Exceptions, Need for User Defined Exceptions, Creating a User Define Exception class, the throw statement, The Throws Statement

Implementing Threads

Threads, Definition of Multithreading, Adding the Date and Time

Storing Data on a disk

Streams, File Input and Output, The File Class, Stream and File Classes, Writing to a File using the Stream Classes

Creating a Network Server Application

Client/Server Architecture, Protocols, Sockets, IP address and Port, Creating a Server Application

Creating a Network Client Applet

Creating a Client Applet.

Implementing Thread Communication

Collections, The Vector Class, The Stack Class, Monitor States, and Communication between Threads.

Introduction to Servlets

Need for Servlets, Introduction to Servlets , Characteristic of Servlets, Comparison between Servlets and Applets, Comparison between Servlets and Other Servlet Side Scripting Technologies, Working of Servlets, The Javax.servlet Package, Life Cycle of a Servlet, Deploying a Servlet Creating a Servlet, Accessing a Servlet using an HTML page.

Working with Sessions

Session Tracking, Techniques to keep track of Sessions in Servlets, The javax.servlet.http.Cookie class, Using Servlets to Maintain Session Information.

Implementing Intr Servlet Communication

Inter-Servlet Communication,The RequestDispatcher interface.

Introduction to JSP

Need for JSP, The JSP RequestResponse class.

Creating JSP Custom Tags

Custom Tag Library, Need for RMI, Custom Tag, Advantages of using Custom Tags, Components of Tag Library, Using Custom Tag in a JSP file.

Project Work

CONTACT FOR INFORMATION:

Abhinav Mishra
Scientist C
7752997204
abhinav@nielit.gov.in

Sudhir Kumar
sudhir@nielit.gov.in
7752997225

ADDRESS FOR CORRESPONDENCE:
National Institute of Electronics and Information Technology (NIELIT) Gorakhpur
M. M. M. University of Technology Campus, Gorakhpur (UP) – 273010.
Phone: 0551-2271874
Fax: 0551-2273873
http://gorakhpur.nielit.gov.in

SUMMER TRAINING
in
"Programing in Advance JAVA"

ORGANIZED BY

राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान, गोरखपुर

National Institute of Electronics and Information Technology (NIELIT) Gorakhpur
An Autonomous Scientific Society of Ministry of Communication & Information Technology,
Department of Electronics & Information Technology (DeitY)
Govt. of India
M. M. M. Engineering College Campus, Gorakhpur U.P.– 273010
Web : http://gorakhpur.nielit.gov.in