

**National Institute of Electronics and Information Technology
(J&K)**

ISO 9001:2008 certified organization

**Department of Electronics & Information Technology (DeitY), Ministry of Communications and Information Technology, Govt. of India.**

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**National Institute of Electronics & Information Technology** (NIELIT),(erstwhile  DOEACC) was set up to carry out HRD-IT and related activities in the area of Information, Electronics & Communications Technology (IECT). NIELIT is engaged both in Formal & Non-Formal Education in the area of IECT besides development of industry oriented quality education and training programmes in the state-of-the-art areas. NIELIT has endeavoured to establish standards to be the country’s premier institution for Examination and Certification in the field of IECT. It is also one of the National Examination Body, which accredits institutes/organizations for conducting courses in IT in the non-formal sector.

NIELIT has thirty one (31) offices located, with a strong network of over 800 accredited institutes and over 6000 facilitation centres.

**About NIELIT Srinagar/Jammu**

* NIELIT J&K is functioning from Srinagar, Jammu & Leh.
* **Srinagar Centre is located in the SIDCO Electronics Complex, Rangreth on a 7.5 acres Campus with a built-up area of 33,000 sq.ft.**
* The Jammu Centre is located on the New Campus of the University of Jammu with a built-up area of 22,000 sqft.
* Sub-Centre Leh is located at Skalzangling, Airport Road, Leh.
* **Long Term Courses:**
	+ MCA in affiliation with University of Kashmir.
	+ PGDCA in affiliation with University of Jammu.
	+ Software/Hardware courses like ‘O’, ‘A’ & ‘B’ level.
* **Short Term Courses in:**
* **Computer Networking**
* CCNA,CCNP
* MCSA(Windows Server 2012)
* Linux Networking
* Integrated Networking Industrial Program.
* WSN (Wireless Sensor Networks)
* **Ethical Hacking and Cyber Forensics**
* Information Security, Ethical Hacking and Cyber Forensics
* **Programming courses**
* Android Programming
* .Net Technologies
* Programming in Java
* Embedded Systems Programming
* MATLAB
* Programming in C/C++
* **Open Source Technologies**
* PHP and MySQL
* Python
* **Database**
* Oracle SQL Dev,Oracle PL/SQL Dev,Oracle App Dev
* **Computer Aided Design**
* VLSI Designing
* AutoCAD
* **Basic Literacy Programs**
* DOEACC “CCC” Course
* Basic Computer Applications.
* **Others**
* Repair of Mobile Phones.
* PC Assembling and Testing
* Web Design
* Diploma in operation and Maintenance of Bio Med equ.

**Applets**

* Applet & application
* Applet architecture
* Parameters to applet
* Embedding applets in Web page

[**Introduction to JDBC**](http://www.roseindia.net/jdbc/index.shtml)

* The JDBC Connectivity Model
* Database Programming
* Connecting to the Database
* Creating a SQL Query
* Getting the Results
* Updating Database Data

[**JDBC SQL Programming**](http://www.roseindia.net/jdbc/jdbc-mysql/)

* Error Checking and the SQL Exception Class
* The SQL Warning Class
* JDBC Driver Types
* Result Set Metadata
* Using a Prepared Statement
* Parameterized Statements
* Stored Procedures
* Transaction Management

**Event-Driven Programming & Swings**

* The Event Delegation Model
* Event Classes, Event Sources
* Event Listeners
* Keyboard and Mouse Event Handling
* Introduction of Swings

**Industrial Training**

**In**

 **Programming Courses**

**( JAVA Programming)**

* Basic and Filtered Streams

 **Core Collection Classes**

* The Collections Framework
* The Set Interface
* Set Implementation Classes
* The List Interface
* List Implementation Classes
* The Queue Interface
* Queue Implementation Classes
* Implementing a Stack
* The Map Interface
* Map Implementation Classes

[**Introduction to Threads**](http://www.roseindia.net/java/thread/index.shtml)

* Overview of thread
* Life Cycle of thread
* Creating Threads
* Multithreading
* Deadlock
* Inter-Thread Communication

[**Packages**](http://www.roseindia.net/java/master-java/java-package.shtml)

* Packages
* The import Statement
* Static Imports
* Class Path & Import
* Defining Packages
* Package Scope

**Advanced Java Features**

* Reusable Software Components
* Abstraction
* Inheritance
* Polymorphism
* Abstract Class
* Interfaces
* Collections
* Iterators
*
* Interface
* Best Practices

**Methods**

* Calling Methods
* Defining Methods
* Method Parameters
* Method Overriding
* Method Overloading

[**Characters and Strings**](http://www.roseindia.net/java/string-examples/)

* Char Data Types
* Character Codes
* ASCII and Unicode
* String Class
* String Input and Output
* String Method

[**Exception Handling and More Flow Control**](http://www.roseindia.net/java/exceptions/)

* Exceptions Overview
* Exceptions
* Declaring Exceptions
* Defining and Throwing Exceptions
* Errors and runtime Exceptions
* Catching Exceptions
* The Finally Block
* Exception Method
* I/O Exceptions Vs Runtime Exceptions

**Input/output Streams**

* Overview of Streams
* Bytes vs. Characters
* Converting Byte Streams to Character Streams
* File Object
* Binary Input and Output
* Print Writer Class
* Reading and Writing Objects

**Objective:** To train students in the area of software development in order to build scalable and flexible applications in an industry standard way.

**Eligibility:** MCA, BE/B.Tech, BCA and A/B Level students (Undergoing/Completed)

**Training Methodology**:

* Classroom Lectures
* PPT Presentations
* Hands on practice in well equipped labs

**Programming in JAVA** (*Duration: 6weeks @2 hrs daily)*

**Introduction to Java**

* What is Java
* Installing Java
* The jdk Directory Structure
* [Sdk structures](http://www.roseindia.net/java/beginners/sdk-directory-structure.shtml)
* Oops concept
* Java Language
* Java Virtual Machine
* [World Wide Web and Java:](http://www.roseindia.net/java/java-introduction/java-an-internet-language.shtml) [Java Platforms:](http://www.roseindia.net/www.roseindia.net/java/beginners/download_jdk.shtml) Data types and Variables

**Object-Oriented Programming**

* Classes and Objects
* Object Models
* Input Wrapper Class
* Fields and Methods
* Encapsulation
* Access Control
* Inheritance
* Polymorphism

**Android Activities and UI Design**

* Understanding Intent
* Activity Lifecycle and Manifest
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