

**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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* Dynamic memory management
* Default constructor
* Copy constructor
* Constructor & information hiding
* Destructor-Automatic clear up of an object

[**Inheritance**](http://www.roseindia.net/jdbc/index.shtml)

* Introduction
* Inheritance-Data & code sharing
* Class derivation
* Ambiguity in class member access
* Virtual base class-A remedy
* Class initialization in inheritance
* Arguments for the base class

**Binding & Polymorphism**

* Introduction
* Binding in C++
* Polymorphism

**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.

**Industrial Training**

**In**

 **Programming Courses**

**(C/C++)**

 **Structures**

* Structure variables
* Structure assignment
* Nested structure
* Structures & functions
* Array of structures

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

* Basics
* Data types
* Bit field integer
* Operations
* Control structures
* Storage classes
* User defined data types
* Reserved words & standard 110 statements in C/C++

[**Object**](http://www.roseindia.net/java/master-java/java-package.shtml) **Oriented Programming with C++**

* Introduction
* Object oriented programming concept
* Objective of OPP
* Programming structure in C++
* Data abstraction

**Overloading & Information Hiding**

* Introduction
* Function overloading
* Information hiding

**Memory Management in C++**

* Introduction
* Constructor-Automatic Initialization of objects
* Sum of an integer
* Sum of digits
* Reversing digits of an integer
* Test whether a number is prime or not
* Factorial computation
* Fibonacci sequence

**Arrays**

* 1 D array
* Searching
* Insertion
* Deletion & sorting of an array
* Finding the largest/smallest element in an array
* 2 D arrays
* Addition/Multiplication of two matrices
* Transpose of a square matrix

[**Character Array**](http://www.roseindia.net/java/string-examples/)

* Strings as array of characters
* Standard library string functions

[**Functions**](http://www.roseindia.net/java/exceptions/) **& Pointers**

* Standard library of C functions
* Prototype of a function
* Formal parameter list
* Return type
* Address operators
* Pointer type declaration
* Pointer assignment
* Functions & pointers
* Function call
* Call bye value
* Call by reference

**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 C/C++**

**Duration:** 2months @2 hrs daily

**Introduction to C Language**

* What is C language
* Algorithms
* Flow-charts
* [Data](http://www.roseindia.net/java/beginners/sdk-directory-structure.shtml) types
* Compilation & execution of C programs

 **Conditional Statements**

* If statement
* If-else statement
* If-else-If statement
* Switch statement
* Loops
* While loop
* Do while loop
* For loop
* Nested loops
* Activity Lifecycle and Manifest
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