

To

Testing and Consultancy Cell,  
Guru Nanak Dev Engineering College,  
Ludhiana – 141006 (Pb.)

### **GENERAL INFORMATION**

Guru Nanak Dev Engineering College, Ludhiana (established in 1956), is one of the oldest and a premier Engineering Institute of India. The Institute is set up on 88 acres of sprawling pristine land on Ludhiana - Malerkotla state highway. Ludhiana city is a well known Industrial hub in Northern India and is well connected by direct rail service with all parts of India. The beautiful campus is about 7 Kms away from railway station.

### **HOW TO APPLY**

The participant should send the attached application form or a Xerox copy of the same along with registration fee.

## **Certificate Course in OOPs Using C++**

**(12 Sept., 2011 to 11 Nov., 2011)**



### **Head of the Departments**

**Akshay Girdhar  
Amanpreet Singh Brar**

### **Course Co-ordinators**

**Akshay Girdhar  
Parminder Singh**

### **Organised by**

**CSE & IT Departments  
and**

**Testing and Consultancy Cell**

**<http://tcc.gndec.ac.in/>**

**Guru Nanak Dev Engineering College,  
Ludhiana – 141006  
Punjab, INDIA**

## INTRODUCTION

C++ is a statically typed, free-form, multi-paradigm, compiled, general-purpose programming language. It is regarded as an intermediate-level language, as it comprises a combination of both high-level and low-level language features. C++ has greatly influenced many other popular programming languages, most notably C# and Java. It is one of the most popular programming languages with application domains including systems software, application software, device drivers, embedded software, high-performance server and client applications, and entertainment software such as video games.

## COURSE CONTENTS

- Object-Oriented Paradigm
- Data Types, Operators and Expressions
- Control Flow
- Arrays and Strings
- Modular Programming With Functions
- Structures and Unions
- Pointers and Runtime Binding
- Classed and Objects
- Constructors and Destructors
- Dynamic Objects
- Operator Overloading
- Inheritance
- Virtual Function
- Generic Programming With Templates

- Streams Computation with Console and Files
- Exception Handling

## DEPARTMENT & FACULTY

The CSE & IT department runs both UG & PG courses. It has state of the art facilities for research and development. Departments has highly qualified faculty. The faculty for the course shall include our own faculty.

## ELIGIBILITY CRITERIA

Students of Diploma / Engineering of all branches are eligible to apply for participation. Minimum students in a batch will be 40. Course timings will be from 4.15 pm to 5.45 pm daily (on Working Days).

## REGISTRATION

A registration Fee of ₹ 4,000/- (inclusive of service tax) is to be paid by cash or demand draft in favour of “Director, Guru Nanak Dev Engineering College, Ludhiana”, payable at Ludhiana. The cash payment can be made on any working day in the Testing and Consultancy Cell of the College. Last date of registration is 12 September, 2011 (12 noon).

## CONTACT US

For any inquires, students may contact Akshay Girdhar, HOD (IT) / Parminder Singh, Assoc. Prof. (CSE) or send email at [it@gndec.ac.in](mailto:it@gndec.ac.in) / [cse@gndec.ac.in](mailto:cse@gndec.ac.in)

## Certificate Course in

# OOPs

## Using C++

(12 Sept., 2011 to 11 Nov., 2011)

### APPLICATION FORM

(you are encouraged to fill online form at <http://tcc.gndec.ac.in/cpp/>)

Name: .....

Father's Name:.....

Date of Birth:.....

Branch:..... Roll No.:.....

Name of College:.....

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Univ. Roll No.:.....

Mailing Address:.....

.....

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Mobile No.:.....

E-mail :.....

Contact No. :.....

Bank Draft No./Cash:.....

Please register me for the above course.

Signature of the Applicant