

To

**TESTING & CONSULTANCY CELL,
Guru Nanak Dev Engineering College,
Ludhiana – 141006 (Pb.)**

GENERAL INFORMATION

Guru Nanak Dev Engineering College, Ludhiana is the oldest and a premier Engineering Institution of the state of Punjab. 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 km away from Railway Station (Auto Rickshaw service available @ Rs.10/- per passenger) and around 6 km from main Bus Stand. If coming by road, then drop at Gill Chowk. Thereafter three-wheelers @ Rs. 10/- per passenger are available for the college. The weather in the month of June in Ludhiana is hot (40⁰C to 44⁰C).

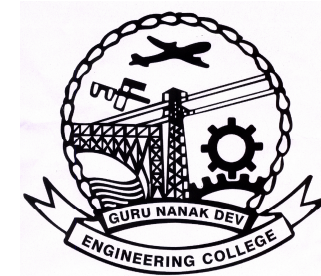
HOW TO APPLY

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

Six Week Training on

**PCB DESIGN AND
FABRICATION**

June 01, 2015 to July 13, 2015



Head of the Deptt.

Dr. Sandeep Singh Gill

Coordinator

Dr. Munish Rattan

Organized by:

**TESTING & CONSULTANCY CELL,
ELECTRONICS & COMM. ENGG. DEPTT.**

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

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INTRODUCTION

A Printed Circuit Board (PCB) mechanically supports and electrically connects electronic components using conductive tracks, pads and other features etched from copper sheets laminated onto a non-conductive substrate. Components are fixed in position by drilling holes through the PCB. The copper tracks link the components together forming a circuit. PCBs are used almost in all electronic products. As electronic devices have become more complex, and require more components these days, the PCB has become more populated and dense with wiring and components. This course discusses the various engineering functions involved in PCB design and manufacturing.

COURSE CONTENTS

- Introduction about PCB
- PCB Design Rules and guidelines
- PCB Materials
- Drawing PCB schematic using EDA tools
- PCB Layout using EDA tools
- PCB Fabrication
- Component placement and soldering

DEPARTMENT & FACULTY

The Electronics & Communication Engg. department is NBA accredited and runs both UG & PG courses. It has state of the art facilities for research & development. The faculty for the course shall include our own faculty. Experts drawn from other Academic Institutions & Industry shall be invited to deliver expert lectures.

ELIGIBILITY CRITERIA

Students of 2nd year Electronics/ Computer Science/ Information Technology/Electrical shall be eligible to apply for participation.

REGISTRATION

A registration Fee of Rs.5000 + 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 & Consultancy Cell of the College.

BOARDING & LODGING

The participants shall be provided with subsidized boarding & lodging in the students hostel on prior request.

Six Weeks Training on PCB Design and Fabrication (June 01, 2015 to July 13, 2015)

APPLICATION FORM

Name :

Father's Name :

Date of Birth :

Name of the College :

Univ. Roll No. :

Mailing Address :

Mobile No. :

E-Mail :

Bank Draft No./Cash :

Accommodation required : Yes/No

Please register me for the above course.

Signature of
Applicant