

### About NIT, Jalandhar

Dr B R Ambedkar National Institute of Technology, Jalandhar was established as Regional Engineering College in the year 1987. It was given the status of National Institute of Technology in 2002 and functions under the aegis of Ministry of Human Resource Development. As an "Institute of National Importance" it imparts high quality technical education in Engineering, Technology and Science to produce competent technical manpower for the country. The institute offers B. Tech programmes in nine engineering disciplines. Four new disciplines (Mining Engineering, Electrical Engineering, Fashion Technology and Information Technology) have started from 2013-14 academic session. In addition to B. Tech programmes, the institute offers M Tech, Ph. D. programmes in all Engineering disciplines.

### Location

The institute is located on Jalandhar-Amritsar NH-1 at a distance of 12 km from Jalandhar Bus Stand, 10 km from Jalandhar City Railway Station, and 16 km from Jalandhar Cantt. Railway Station. It is connected to New Delhi by major Rail/Road connection. The city is surrounded by famous rivers Sutlej and Beas. Jalandhar is internationally famous for sports goods, textile products and hand tools industry.

### About the Department

The Department of Electronics & Communication Engineering, Dr. B R Ambedkar NIT Jalandhar has been offering B.Tech programme in Electronics & Communication Engineering since 1989, M.Tech programme in Electronics & Communication Engineering (Full-Time) and VLSI Design (Full Time) from year 2007. The Department also offers Ph.D. programmes in various specializations, such as Biomedical Signal and Image Processing, Digital Signal and Image Processing and Its Applications, VLSI Design and Communication Systems etc. The course curriculum has been designed compatible to the existing and emerging needs of the industry. The Department has established state-of-the-art laboratories for B.Tech, M.Tech and Ph.D. research work. The Department has advanced Biomedical Signal Processing and Telemedicine Laboratory, Medical Imaging and Computational Modeling of Physiological Systems Research Laboratory, VLSI Design Laboratory and Communication System Laboratory with sophisticated equipments. More than fifteen students have already completed their Ph.D. degree and presently ten research scholars are registered in the department for their Ph.D. degree.

### Preamble

The field of digital signal and image processing has evolved continuously. The applications of digital signal and image processing includes contemporary medical instrumentation systems, automatic disease diagnostic equipment, imaging technologies of various kinds, computer-assisted electrocardiography, heart rate variability, tele-medicine and tele-healthcare systems design, physiological variability analysis, modern communication systems, embedded systems with wide ranging applications. Even after immense work towards developing the advanced signal processing techniques for various applications, the need to develop highly accurate biomedical instrumentation systems and advanced communications needs to evolve more effectively to counter the changing needs in modern era.

### Objectives of the Short Term Course

The course contents would cover Basics of digital signal and image processing and its applications in human health care systems and disease diagnostics.

### Aims of the Summer School

1. To enhance technical and professional competency of the faculty members.
2. To promote interaction among the professionals working in applications of signal and image processing and allied areas.

## Self-Sponsored One-Week

## Short Term Course On

## Current Trends in Signal and Image Processing

(18-22 June, 2018)

Organized by

Department of Electronics & Communication  
Engineering

(Course Coordinators)

Dr. Barjinder S. Saini

Dr. Ramesh K. Sunkaria

Dr. Indu Saini



Dr B R Ambedkar

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(Punjab)-144011

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Fax: 0181-2690932

Website: [www.nitj.ac.in](http://www.nitj.ac.in)

## Faculty

The faculty for the course will be from reputed educational and research organizations.

## Participants

The course can be attended by the faculty members of an Engineering Institution and the delegates from various industries and research organization. The interested persons need to apply through proper channel to the 'Course Coordinator' in the prescribed format by due date.

## General Information

- The shortlisted candidates will be informed of his/her selection for course in advance.
- **A nominal course fee of Rs. 500/- will be charged from each participants in the form of demand draft/cheque in favour of Head, ECE, NIT Jalandhar, along with registration.**
- The accommodation to the outstation candidates will be provided in the Hostel (on sharing basis) on payment basis as per norms and as per availability. Food etc. will be made available in Hostel on payment basis.
- No TA/DA shall be paid to the participants for attending the course.
- **Last date of receiving the filled and signed registration forms: 15.06.2018**

## Important Dates

- Reporting date and time at the Institute: 18.06.2018/9:00 AM.
- Venue: IT Park, NIT Jalandhar.

## Organizing Committee

### Patron

**Professor (Dr) Lalit Kumar Awasthi**

Director, Dr B R Ambedkar National Institute of Technology Jalandhar (Punjab).

### Head of the Department

**Dr. Barjinder S. Saini**

### Course Coordinators

**Dr. Barjinder S. Saini**

**Dr. Ramesh K. Sunkaria**

**Dr. Indu Saini**

Department of Electronics & Communication Engineering,  
Dr. B R Ambedkar National Institute of Technology  
Jalandhar (Punjab)-144011

### Co-Coordinator

Dr. R. K. Sarin

Dr. Arun Khosla

Dr. Mamta Khosla

Dr. Neetu Sood

Dr. Ashish Raman

Dr. Deepthi Kakkar

Dr. Balwinder Raj

### Organizing Members

Dr. Sateesh Kumar Awasthi

Dr. Sukhwinder Singh

Dr. Pawan Kumar Verma

Dr. Nitesh Kashyap

Dr. Deepak Bharati

Dr. Ajay Kumar

### Student Organizing Members

Ms. Simarjot Kaur Randhawa,

Ms Anterpreet Kaur Bedi,

Mr Atul Kumar

### For Participants Please Register With:

The complete registration form should reach by speed post or email to following address.

Corresponding address:

**Dr. Ramesh K. Sunkaria**

### Course Coordinator

Department of Electronics & Communication Engineering,  
Dr. B R Ambedkar National Institute of Technology  
Jalandhar (Punjab)-144011

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**Dr B R Ambedkar**

**National Institute of Technology, Jalandhar  
(Punjab)-144011**

**Self-Sponsored One-Week  
Short Term Course**

**On**

**Current Trends in Signal and  
Image Processing**

**(18-22 June, 2018)**

**REGISTRATION FORM**

Name: Mr./Ms/Dr. \_\_\_\_\_

(In capital letters)

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Mobile No: \_\_\_\_\_

E-mail ID: \_\_\_\_\_

Signature and Date \_\_\_\_\_

### **RECOMMENDATION OF THE SPONSORING AUTHORITY:**

The applicant is hereby sponsored and will be permitted to attend the Summer School, if selected.

Date: \_\_\_\_\_

Signature and Seal of  
Sponsoring Authority