

***Self-Sponsored
Short Term Course
On
Recent Trends & Challenges
in Instrumentation and
Control
(RTCIC-2021)
October 20-24, 2021***



Organized By

***Department of Instrumentation and
Control Engineering,***

***Dr. B. R. Ambedkar National Institute of
Technology, Jalandhar, Punjab***

About NIT Jalandhar

Dr. B. R Ambedkar National Institute of Technology (NIT), Jalandhar was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. 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 Bachelor of Technology (B.Tech.) programme in nine disciplines of Engineering and Technology along with the research programmes leading to Master of Technology (M.Tech.) and Doctor of Philosophy (Ph.D). As per the survey conducted by NIRF, DQ-CMR best technical school survey and India Today-MDRA Best Colleges Ranking in the year 2018, the institute was ranked 74th, 18th and 22nd respectively, amongst all engineering institutions, including IITs in the country.

About Department of Instrumentation and Control Engineering

The Department of Instrumentation and Control Engineering commenced its Bachelor of Technology (B. Tech.) degree programme in 1989, M Tech (Full Time) Degree Programme in Control Instrumentation Engineering w.e.f. July, 2006 and M Tech (Part-Time) Programme w.e.f. July, 2010. The Ph.D. Programme has also been offered since 2005 in various disciplines of Instrumentation and Control Engineering.

The Department aims at providing organizations with engineers who are a best fit for the organization's needs. The department always strive to build such skills among the students in a systematic manner. Research in the department is at the leading-edge of technological innovations and encompasses all major areas of Instrumentation and Control Engineering. The

department has unique research facilities that enable leading-edge research in many areas such as Robotics and Automation, Process Control, Biomedical Instrumentation, Sensors and Wireless Networking and Intelligent Control Systems. These facilities provide an excellent opportunity for graduate students and research scholars to be trained and gain valuable experience. The Department is consolidating its efforts to promote industrial research and consultancy in relevant areas.

About Jalandhar City

Jalandhar is the oldest inhabited major city in the Indian state of Punjab. In recent times the city has undergone rapid urbanization and has developed into a highly industrialized centre of commerce. Jalandhar has been shortlisted for the second phase of the "Smart City" initiative of the Indian Government. Jalandhar is alongside the Grand Trunk Road and is a well-connected rail and road junction. Jalandhar is 144 km northwest of Chandigarh. Jalandhar city is approximately 390 Km from New Delhi, 70 Km from Amritsar and 28 Km from Adampur Airport Jalandhar. Various attractions in Jalandhar are: Pushpa Gujral Science City, Fun City, Shaheed-E-Azam Sardar Bhagat Museum, Company Bagh, Niku Park, Model Town, Wonder Land, Adarsh Nagar Park, Vasal Tower, Curo Highstreet, Jung-E-Azadi Museum, etc.

Objectives of the Course

In recent years, the development of the domestic industry on-the-spot test technology and modern power engineering technology adopts and has produced develop rapidly. Popularization and application along with electronic technology, sensor technology, computer technology, and control technology, adopted measuring technology means such as artificial acquisition test data, manual drawing curve and manually operated only being replaced in the past by computer automatic measurement and control system, measurement and control accuracy, reliability, and stability is continuing to develop rapidly. The recent trends and challenges in instrumentation and control involve the processes like Managing big data in process control systems, Remote test for critical infrastructure, Power grid quality control: new challenges for engineers, Biomedical instrumentation, engineering

sector, Artificial Intelligence, Transformation in Healthcare, Climate monitoring and low temperature instrumentation.

Aims of the STC

1. To enhance technical and professional competency of the faculty members, PhD and PG scholars.
2. The recent STC has its potential applications to industrial and factory automation.

Resource Persons

The resource persons for the course will be from IISc, NIT's, Universities, reputed educational and research organizations.

Registration Fee per participant:

The Registration fee for the course is INR 100 per participant.

Registration process for participants:

- ✓ Single registration to attend all lectures
- ✓ Registration fee: INR 100
- ✓ Prior registration is mandatory to attend STC
- ✓ E-certificate will be issued to the participants on successful participation of the course
- ✓ Webinar meeting link and other instructions will be shared via e-mail to all registered participants only

Organizing Committee

Chief Patron

Sh. Subhash Chandra Ralhan,
Chairperson, BOG, Dr B R
Ambedkar National Institute of
Technology Jalandhar

Patron

Prof. R K Garg
Director,
Dr. B. R. Ambedkar National Institute
of Technology Jalandhar-144011,

Co-Patron

Dr Rajesh Singla
HOD, ICE

Course Convener

Dr. Ravi Verma,
Assistant Professor,
Department of Instrumentation and Control
Engineering, Punjab
Email: vermaravi@nitj.ac.in
Mobile: 9996242987

Course Coordinators

Dr. Karan Veer
Assistant Professor
Department of Instrumentation and Control
Engineering, Punjab
Email: veerk@nitj.ac.in
Mobile: 9418003227

Dr. Amit Kumar Singh,
Assistant Professor
Department of Instrumentation and Control
Engineering, Punjab
Email: singhak@nitj.ac.in
Mobile: 9286501979

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Registration Link:

https://www.nitj.ac.in/events_registration/rtcic/login

Timings: Session 1: 10:30 AM – 12:30 PM

Session 2: 03:00 PM – 05:00 PM

Mobile:

+91-9996242987 (Dr Ravi Verma)

+91-9418003227 (Dr Karan Veer)

+91- 9286501979(Dr Amit Kumar Singh)

Mail:

vermaravi@nitj.ac.in

veerk@nitj.ac.in

singhak@nitj.ac.in

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