

The Institute

Dr B R Ambedkar National Institute of Technology, Jalandhar (NITJ) is a leading premier autonomous Institution of northern India (under Ministry of Human Resource Development, Govt. of India, New Delhi) located in eco-friendly environment amidst a rambling campus spread over 154 acres. NIT Jalandhar was ranked 49th amongst the engineering institutes of the country in NIRF ranking.

Established in the year 1987 as Regional Engineering College, was given the status of National Institute of Technology in the year 2002 under the aegis of Ministry of Human Resource Development, New Delhi. The Institute was accorded the status of 'Institute of National Importance' under the act of Parliament- 2007. The various departments of the institute are actively involved in several sponsored projects including DST - FIST Programme, TEQIP-III, DST- instrumentation, CSIR, TIFAC and MHRD projects etc. Faculty members are also involved in outside institutes - network / joint projects, international and national academics, professional societies, industry / government/ public/ community service, consultancy etc.

The Institute offers Bachelor of Technology (B Tech) programme in eleven disciplines of Engineering and Technology, Master of Science in Chemistry, Physics and Mathematics, Master of Technology (M Tech) and Doctor of Philosophy (Ph D) in all Disciplines of Science & Engineering. Institute also possesses a Central Workshop, CAD/CAM centre and Computer Centre for soft computing. Central Library of the Institute subscribes e- journals and standards with on- line access and hard copies of latest books and Journals.

Introduction to Webinar

Garment product design becomes a careful creative practice in present scenario in which the focus is the interplay between the artefact and its social environment. This means to create artefacts that form a world, which is comprehensible, manageable, and meaningful. In this endeavor, we need more cooperation between practitioners from the social and technical sciences, the humanities and design. Research in design is quite young and a consensus about methods and research paradigms are not yet formed. One discussion is whether design should conform to established ideas about science and research or whether it is something unique that should develop its own research agenda. These questions are answered by looking at theories from semiotics and social action theory. Semiotic theory provides us with tools to analyze different layers of meaning in artefacts to construct for "well worn" as it is an endeavor to bridge the gap between the textile, garment & fashion industry through meta-heuristics by creating database with global acceptance.

It is helpful in the difficult, and much discussed, issue in design between form, content and function. Social action theory shows how reality is a social construction from mind to market where typified actions become objective phenomena. To execute this summary, it is proposed to conduct webinar on garment product design. This webinar will be informative & will emphasize practical aspects in designing to meet stringent requirement of concept to consumption through systematic approach.

The webinar will be conducted with cognitive engineering for global gratification, which includes right from simulation to homogeneous product with humanistic seeds of foreign technology through three-prong strategy of 6Ts' (Information Technology, Space Technology, Environment Technology, Culture Technology, Nano Technology and Biotechnology), 5Ws' (Where, What, Why, When and Who) and 3S's (Simplification, Standardization and Specialization).

Department of Textile Technology

The department is pioneer in grooming textile engineers in this part of the country. Among 31 NITs of the country, it is the only NIT which runs textile technology courses and provides trained manpower to the textile industry. The department has well experienced and dedicated faculty, wide gamut of interdisciplinary research activities encompassing garment manufacturing, sewing threads, fabric and sewing thread interaction, seam characterization, garment designing, stretchable garments, garment comfort, garment chemical processing, nonwoven fabric development, aerosol filtration, surgical gowns, coir geomesh, development of bandage fabric and antimicrobial fabrics, nano-composite filaments, development of specialty yarns, waste water management.

The department has seven well-equipped laboratories with modern research facilities providing technical support to the nearby industry, which are continuously being upgraded under TEQIP-III, DST- FIST and DST-instrumentation programme. In addition, several laboratories under other engineering departments and science disciplines are available for carrying out intra as well as inter-departmental research activities. There are 30 students pursuing research at doctoral level. The research of the department has been reported in reputed academic and applied journals, international conference proceedings etc.

Department has transferred the right of manufacturing the test rigs (filter media for pollution control in industries) to Kanwal Enterprises, Gurgaon. Department also applied for patents of various instruments i.e. an apparatus for testing cleanable filter media in tubular form, apparatus for testing cleanable filter media in flat form, development of device for measuring light transmittance, instrument for testing soil erosion control performances of geo-meshes. Recently, the department has transferred the technologies for Face- Mask and Wet Abrasion Universal Tester to M/S Singla Engravures, Ghaziabad, Meditex Industries Pvt. Ltd., Jalandhar & M/S Prolific Engineers, Noida respectively.

Tentative Schedule

Time	Topic	Expert
10:00 AM to 10:30 AM	Inauguration	
10:30 AM to 11:30 AM	Moisture Management for Clothing Comfort	Prof. Apurba Das, Department of Textile and Fibre Engineering, IIT Delhi
11:30 AM to 12:30 PM	Selection of Fibres for Garment Design	Prof. A. Chatterjee, Department of Textile Technology, NIT Jalandhar
12:30 PM to 1:30 PM	Designing of Sports Garments	Prof. A. Mukhopadhyay, Department of Textile Technology, NIT Jalandhar
1:30 PM to 3:00 PM	Lunch break	
3:00 PM to 4:00 PM	Evaluation of Garment Comfort	Dr. A. K. Choudhary, Associate Professor, Department of Textile Technology, NIT Jalandhar
4:00 PM to 5:00 PM	Auxetic Garment Design	Prof. Raul Figueiro, Department of Mechanical Engineering, University of Minho
	Tea Break	
7:30 PM to 8:30 PM	Anthropometry (3D body scanners)	John Fijen, Textile Community Technology Corporation, USA

Organizing Committee

Patron

Prof. Rajiv Kumar Garg
Director, Dr B R Ambedkar NIT Jalandhar

Co- Patron

Dr A K Choudhary, Head, Department of Textile Technology,
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How to Apply

The applicants may register with following link before 6th December, 2021.

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

Registration Fee

Registration fee for attending the webinar is as follows.

Registration Category	Registration Fee (inclusive of GST)
Faculty & Staff / Industry Personnel /Entrepreneur	₹ 500/-
Student / Research Scholar	₹ 200/-

- No registration fee for internal participants
- E- certificates will be provided to the participants.

Who can attend

- Faculty members of educational institutions, PG & research scholars
- Participants from industry, government sectors and staff of any institution.

**Dr B R Ambedkar National Institute of
Technology, Jalandhar
Department of Textile Technology**

**Online One-Day Webinar on
Garment Product Design**

7th December, 2021

Coordinators

Dr KVP Singh and Dr Ghanshyam Neje



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Dr B R Ambedkar National Institute of
Technology**

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