FUNCTIONAL TEXTILES & CLOTHING CONFERENCE

4th International Conference on Functional Textiles & Clothing

31st January - 2nd February, 2025

IIT Delhi, New Delhi, India

Organized by

IIT Delhi

in Association with

WUD WORLD UNIVERSITY OF DESIGN

WUD, Sonipat



Partner Universities

THE SWEDISH SCHOOL OF TEXTILES
UNIVERSITY OF BORÅS

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ensait ROUBAIX ECOLE D' INGENIEURS TEXTILE | Université de Lille

www.ftcconference.in

NEW DELHI

Invitation

FTC is a biannual conference held at IIT Delhi, New Delhi, that brings leading scientists, researchers, designers, and the textile and apparel industry together, to enable exchanges on latest scientific findings, design developments, cutting edge technologies, innovations, trends, concerns, challenges, and opportunities in the field of Functional Textiles and Clothing. Three editions of FTC have been held in 2018, 2020 and 2023, each of which saw participation from nearly 80 universities across the world. Held only in the physical mode, FTC has proven to be a melting pot of ideas that provides fertile ground for networking between all stakeholders.

Functional Clothing comprises clothing that is designed to deliver specific functionalities to users, over and above their usual functions. Functional clothing items can be classified as Protective clothing, Sports clothing, Medical clothing, Vanity clothing and clothing for military applications that performs multiple functions. Smart clothing items equipped with sensors and processors for monitoring of body parameters are a fast growing segment of this market. The market for functional clothing is predicted to reach 244.6 billion U.S. dollars by 2025.

Functional clothing is driven by developments in the field of textile materials as well as apparel production processes. Conductive textiles, composites and membranes, new fabrics, surface functionalization techniques, innovative finishes and coatings and nanotechnology are the emerging areas. CAD CAM technologies including those for 3D and 4D body measurement, pattern design, fit testing and mass customization, clothing comfort, clothing for special groups and innovative fashion design are growing fields. Internet of things, artificial intelligence, deep learning and virtual reality tools are used to design clothing that is smart, responsive and closer to the needs of the user.

The last FTC edition, held in February 2023, welcomed over 225 delegates from 20 countries who presented nearly 150 research papers on a wide spectrum of topics. The conference attracted the support of the National Technical Textile Mission of the Ministry of Textiles, Government of India.

FTC is organised by IIT Delhi, a technology institute, in association with the World University of Design, a Design University to bring out the synergies between the fields of Technology & Design. IIT Delhi, the host institution is ranked #1 engineering institution of India. Its Department of Textile and Fibre Engineering is a leader in Textile Education & Research in the country. The World University of Design, Haryana, is India's premier design university.

We extend a warm welcome to you to participate in the International conference on Functional Textiles and Clothing FTC 2025 at New Delhi.

Organising Committee

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Deepti Gupta
IIT Delhi

Co-Chairs

Sanjay Gupta
World University of Design, Sonipat

International Scientific Committee

Chair

Abhijit Majumdar
IIT Delhi

Co-Chairs

Parikshit Goswami
University of Huddersfield, UK

Conference Highlights

Contests

The contests are specifically planned to encourage design, innovation and product development activities amongst students. The Poster Contest can have any innovative textile product developed by a student to be nominated. Functional Fashion contest focuses exclusively on innovative functional Clothing products. The entries will be evaluated on the basis of novelty, the problem being solved and design and viability of the proposed solution.

Poster Contest

Poster abstracts are invited from students in different areas of functional textiles and clothing. The poster committee would evaluate them for scientific content, originality and presentation. Top three posters will receive a cash prize and a certificate. The decision of judges will be final and binding to all.

Important Dates

Submission of Abstracts	:	31st August 2024
Notification of Acceptance	:	15th September 2024
Submission of Full Paper	:	31st October 2024
Early Bird Registration	:	30th November 2024
Last Date of Registration (Authors and Presenters)	:	31st December 2024
Entries for Functional Clothing Contest	:	15th September 2024

Topics covered

- Anthropometry, Garment Sizing and Fit
- AR/VR, CAD/CAE, Mass Customization
- Circular and Sustainable Textiles
- Circular Fashion
- Clothing Comfort
- Digital Fashion
- Digitization in Operations & Supply Chain
- Dyeing and Finishing
- Ergonomic Clothing
- Garment Design and Manufacturing
- Innovation in Fashion
- Innovation in Fibres and Fabrics
- Medical Textiles and Clothing
- Nonwoven, Knitting/Braiding Technologies
- Protective Textiles and Clothing
- Sportswear, Knitwear, Work Wear
- Supply Chain Management
- Surface Functionalization and Coatings
- Technical Textiles
- Textile and Clothing Machinery
- Textile and Fashion Education
- Traditional Textiles
- Wearable and Smart Textiles/clothing

Committees

Advisory Committee	
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Vladan Koncar	ENSAIT, France
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Yordan Kyosev	TU Dresden, Germany



Team FTC 2025 invites entries for the "Functional Clothing Contest" to be held as part of the 4th International Conference on Functional Textiles and Clothing FTC2025.

More Details
Click here

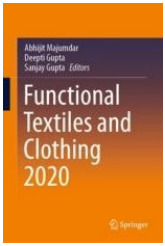
Selected papers from FTC 2025 conference will be published by Springer as a Proceedings book volume. Previous proceedings can be seen below

Springer

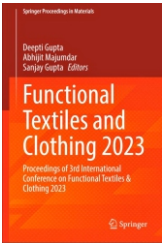
Book Publication by Springer (2018)



Book Publication by Springer (2020)



Book Publication by Springer (2023)



Registration

Category	Up to 30th Nov'24	Up to 31st Dec'24 (Authors and Presenters)
Overseas Registration		
Delegate	€ 400	€ 450
Student	€ 275	€ 300
Accompanying Person (spouse or child >12 years)	€ 200	€ 200
Indian Registration		
Industry Delegate	₹ 10,000	₹ 12,000
Academic / Research Delegate	₹ 8,500	₹ 10,000
PhD Student / Non-PhD Student	₹ 6,500 / 5,000	₹ 7,500 / 5,500
Accompanying Person (spouse or child >12 years)	₹ 6,500	₹ 6,500

Note:
Registration fees includes 18% GST.
Students are required to submit a bonafide certificate signed by the department head, during online registration.

Register Now!
Click here

Confirmation Letter
A registration confirmation letter will be sent to you via e-mail on receipt of the full payment.

Certificate
Registered Authors will get a certificate of presentation
Registered Co-Authors will get an e-certificate of co-authorship

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Opportunities options are available for sponsorship
Please contact the organizers at secretariat@ftcconference.in

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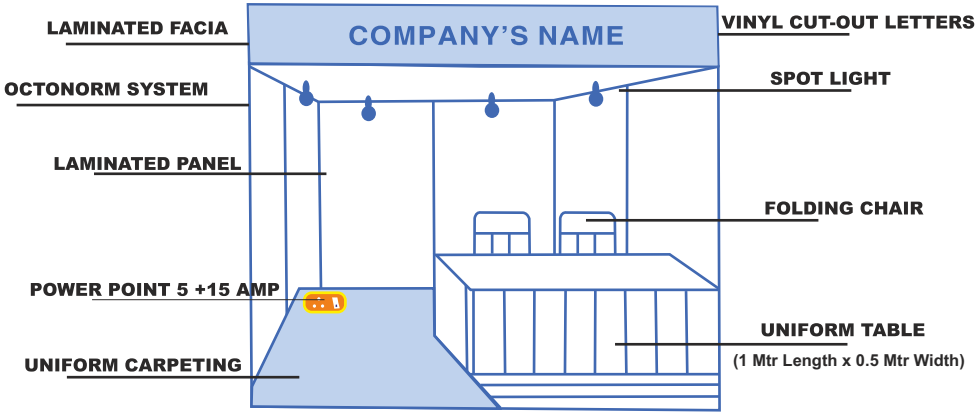
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Exhibition

Stall Size - 3X2 Sq Mtr
Indian Exhibitor - INR 1,50,000 + 18% GST
Overseas Exhibitor - EUR 2,500 + 18% GST

Stall Includes:
Table/Counter - 1 , Chair - 2, Spot Light - 3, Power Point (5/15 amp. Socket) - 1, Waste Paper Basket - 1, Company Fascia - Yes, Carpet - Yes

The allocation of the stall will be based on first come first serve basis.



Department of Textile and Fibre Engineering, IIT Delhi
Indian Institute of Technology, New Delhi - 110016, India

Department of Textile and Fibre Engineering at IIT Delhi is one of the oldest and most prestigious colleges offering Textile Education in India. It has the distinction of being the only Textile Department in the IIT system. It offers one UG program in Textile Technology and three PG programs in Textile Chemical Processing, Textile Engineering and Fiber Science & Technology, besides offering the Doctoral program. Alumni of the department are holding senior positions of responsibility in Indian industry and are employed as teachers and researchers in various organisations round the country.

Teaching and research activities in the department focus on niche and futuristic areas including new manufacturing technologies, Smart textiles, Nanotechnology, Eco friendly processing and Biotextiles. Engineering of functional apparel such as medical clothing, pressure garments, extreme cold weather clothing and bullet proof vests are important areas of current research.

The department has active interaction with several global institutes such as the University of Bolton, UK and the University of Liberec, Czech Republic, in terms of fellowships and internships as well as faculty exchange and joint research. An EU project involving EPFL, Switzerland, Uppsala, Sweden, RWTH, Aachen and UC, London is carrying out research in Tissue Engineering. The department has strong interactions with Institute of Natural Fibers, Poznan, CSIRO Fibres and Textiles Technology, Melbourne, CNR-ISMAC, Shinshu University, Japan, Hanoi University of Technology, Vietnam and NCSU of USA leading to mutually rewarding activities.

World University of Design, Haryana

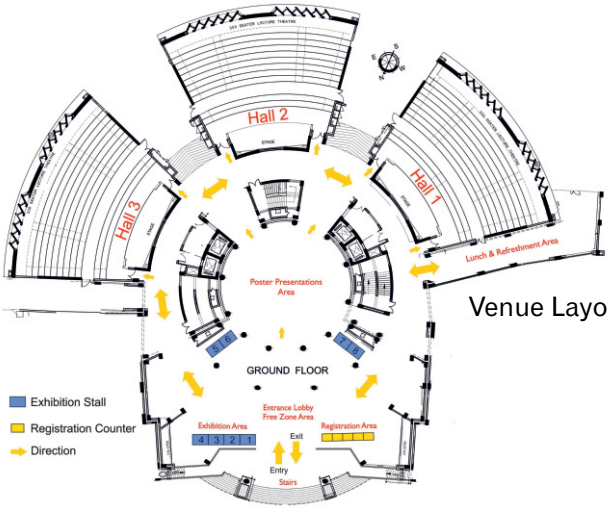
World University of Design (WUD), founded in 2018, and established at Rajiv Gandhi Education City, Sonipat, is among India's leading design universities holding a QS I-Gauge Platinum Rating in Design education and an A+ Grade in Outcome-Based Education by World Institutional Ranking. Established under the Haryana Private University Act 2006, WUD has the right to confer degrees under section 2(f) and 22(l) of the UGC Act. Dedicated to creative education, WUD has the largest portfolio of design courses in India. It offers a diverse range of undergraduate, postgraduate, and doctoral programs in fields like Architecture, Design, Fashion, Communication, Visual Arts, Performing Arts, and Business.

Committed to sustainability and making a positive global impact, WUD fosters a dynamic learning environment that promotes hands-on education, fostering student excellence with state-of-the-art facilities and numerous award-winning projects. The university prioritizes research and innovation and has established several international collaborations and exchange programs to provide students with a global perspective. WUD publishes a Journal of Art Architecture & Design (JAARD). With a focus on industry partnerships, internships, and industry-relevant faculty, WUD has a mission to grow into a Centre of excellence and a vibrant hub for design education in the country.



Conference Venue

Lecture Hall Complex (LHC), IIT Delhi



Venue Layout



Conference Organizer

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