FUNCTIONAL TEXTILES & CLOTHING CONFERENCE

Organized by

IIT Delhi

in Association with

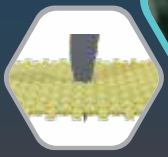
WUD
WORLD UNIVERSITY OF DESIGN

WUD, Sonipat

5th International Conference on
Functional Textiles & Clothing

5th - 7th February, 2027 | IIT Delhi, New Delhi, India

www.ftcconference.in



Partner Universities

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THE SWEDISH SCHOOL OF TEXTILES
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Invitation

The International Conference on Functional Textiles and Clothing (FTC 2027) invites researchers, academicians, designers, industry leaders, and policymakers from across the world to convene at IIT Delhi, New Delhi, for a focused dialogue on the future of textiles and apparel.

Since 2018, FTC has grown into a globally recognized platform at the intersection of textile materials, technology, design, and human-centric innovation, bringing together participants from 400+ institutions across nearly 50 countries. What began as an emerging field has now entered the mainstream, transforming how clothing is designed, produced, and experienced.

Today, functional clothing is at the convergence of advanced materials, sustainability, digitalization, healthcare innovation, climate resilience, and the experience economy. Garments are evolving from passive coverings into active systems - monitoring health, enhancing performance, ensuring safety, and responding intelligently to users and environments. The scope of functional textiles has expanded dramatically. Advances in high-performance & functional fibers, conductive materials, bio-based fibres, nanotechnology, fabric & clothing manufacturing technologies, and responsive surfaces are now being integrated with AI, IoT, digital twins, and extended reality, enabling clothing that is adaptive, predictive, and deeply personalized.

At the same time, the field is witnessing a paradigm shift in garment design and production. Technologies such as 3D body scanning, generative design, mass customization, and digital prototyping are transforming how garments are conceived, tested, and delivered. Functional clothing today must not only perform but also address comfort, inclusivity, cultural context, and user experience, making design as critical as engineering.

FTC 2027 builds on this momentum, offering a platform to showcase cutting-edge research, foster collaborations, and engage with the next wave of innovation in functional textiles and clothing. The conference continues to receive support from key national initiatives such as the National Technical Textiles Mission (Ministry of Textiles, Government of India), reflecting its strategic importance in advancing this sector.

Jointly organised by IIT Delhi and the World University of Design (WUD), the conference brings together the strengths of engineering and design to shape the future of this rapidly evolving field.

We warmly invite you to be part of this journey - to present, participate, collaborate, and shape the future of functional textiles and clothing at FTC 2027, New Delhi

Organising Committee

Chair	Co-Chairs
Deepti Gupta IIT Delhi	Sanjay Gupta WUD, Sonipat

International Scientific Committee

Chair	Co-Chairs
Abhijit Majumdar IIT Delhi	Parikshit Goswami Univ. of Huddersfield, UK

Committees

Advisory Committee	
Abdel-Fattah Seyam	North Carolina State University, USA
Malgorzata Zimniewska	Inst. of Natural Fibres & Medicinal Plants, Poland
Vladan Koncar	ENSAIT, France
Xiaogang Chen	University of Manchester, UK
Xungai Wang	Hong Kong Polytechnic University, Hong Kong

Organising Committee	
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Sanjay Gupta (Co-Chair)	WUD, Sonepat, India
Anindya Ghosh	GCETT, Berhampore, India
Anshika Agarwal	WUD, Sonepat, India
Ashish Kapoor	Intel, USA
Ashwini Agrawal	IIT Delhi, India
Atul Maurya	WUD, Sonepat, India
Bhupendra S. Butola	IIT Delhi, India
Brojeswari Das	Central Silk Board
Debabrata Ghosh	Oerlikon Textiles, India
Deepali Rastogi	Lady Irwin College, Delhi University, India
Devender Kharb	WUD, Sonepat, India
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Harun Venkatesan	IIT Delhi, India
J P Sampath Kumar	NID, Jorhat
Javed N Sheikh	IIT Delhi, India
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Kartick Samanta	NINFET, Kolkata
Nilanjana Bairagi	NIFT, Bangalore, India
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S Periyasamy	CSB, Bengaluru, India
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Vidushi Vashishth	WUD, Sonepat, India

Scientific Committee	
Abhijit Majumdar (Chair)	IIT Delhi, India
Parikshit Goswami (Co-chair)	University of Huddersfield, UK
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Rudrajeet Pal	Univ. of Borås, Sweden
Saniyat Islam	RMIT Univ., Australia
Simeon Gill	Manchester Univ., UK
Sankar Roy Maulik	VB Univ., West Bengal
Steve Russell	University of Leeds, UK
T V Sreekumar	BTRA, India
Vincent Nierstrasz	Univ. of Borås, Sweden
Yordan Kyosev	TU Dresden, Germany

Conference Highlights

Design & Innovation Contests

FTC 2027 places a strong emphasis on student-led innovation, design thinking, and product development. Two flagship contests are organised to encourage young creators to translate their ideas into tangible, impactful solutions.

The Functional Clothing Contest

The Functional Clothing Contest is FTC's signature platform celebrating innovation, creativity, functionality, and interdisciplinary exploration within the field of fashion and wearable systems. It showcases how clothing can move beyond aesthetics to deliver meaningful functionality in real-world contexts...

Poster Contest

The Poster Contest invites students to present innovative concepts, materials, processes, or products developed by them in the domain of functional textiles and clothing. Submissions may span any of the FTC thematic areas.

Poster entries will be evaluated by jury members considering:

- Scientific and technical rigour
- Originality and innovation
- Clarity of communication and visual presentation

All posters will be displayed during the conference. The first two authors will be provided certificates.

Important Dates

15th Sep'26
Submission of Abstracts

30th Sep'26
Notification of Acceptance

31st Oct'26
Early Bird Registration (Authors & Presenters)

30th Nov'26
Submission of Full Paper

31st Dec'26
Last Date of Registration:

Springer

Selected papers from **FTC 2027** conference will be published by Springer as a Proceedings book volume.

2025 2023 2020 2018

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Conference Tracks

1. **Advanced Materials, Fibres and Surface Engineering -**
   High-performance fibres, smart materials, nanotechnology, coatings, membranes, and functional finishes.
2. **Culture, Craft, and Policy Futures -**
   Traditional textiles, craft integration, fashion innovation, policy frameworks, and education ecosystems
3. **Digital Transformation and AI in Textiles and Fashion -**
   Digital fashion, AI-assisted design, AR/VR/XR, 3D/4D simulation, digital twins, virtual prototyping, blockchain, and smart supply chains.
4. **Functional Textiles and clothing for Health, Wellness and Performance-**
   Energy harvesting textiles, piezo and triboelectric textiles, medical and healthcare garments, therapeutic clothing, elderly care wearables, sports and performance apparel, biometric monitoring, and wellbeing-focused design.
5. **Human-Centered Design: Fit, Comfort and Ergonomics -**
   Anthropometry, sizing, inclusive design, adaptive clothing, clothing comfort, mobility, and user experience in garment design.
6. **Manufacturing Innovation and Future Production Systems -**
   Innovation in spinning/ weaving/ knitting/ nonwoven processes, Automation, robotics, smart factories, advanced garment manufacturing, textile machinery, and mass customization.
7. **Protective, Defence and Climate-Responsive Textiles and Clothing -**
   Protective textiles for industrial, military, and emergency use; multi-hazard protection; climate-adaptive clothing; occupational safety and resilience.
8. **Smart and Intelligent Textiles and Clothing -**
   Wearables, e-textiles, IoT-enabled garments, AI-integrated apparel, responsive systems, soft robotics, and human–garment interaction.
9. **Sustainable, Circular and Regenerative Textile Systems -**
   New and alternate fibres, bio composites, waste valorisation, circular textiles and fashion, recycling, bio-based materials, low-impact processes, lifecycle assessment & design, carbon, water and chemical footprints, regenerative approaches, and sustainable consumption.
10. **Technical Textiles -**
    Fibres and Textile structures for agricultural, automotive, geotextile, industrial and composite applications
11. **Textile Characterisation and Quality Management -**
    Fibre, yarn, fabric and clothing evaluation methods, data driven decision making in textile quality management, AI-ML applications.
12. **Textile Chemical Processing -**
    Innovation in dyeing, printing and finishing; waterless dyeing, applications of plasma, IR, etc.
13. **Value Chain Management -**
    Operations, finance and supply chain innovations in textile and fashion industry, network design, traceability.

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Registration

Category	Up to 31st Oct'26 (Early Bird - Authors and Presenters)	1st Nov'26 Onwards
Overseas Registration		
Delegate	€ 400	€ 450
Student	€ 275	€ 300
Accompanying Person (spouse or child >12 years)	-	€ 200
Functional Clothing Contestants (1-day)	€ 150	-
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
Functional Clothing Contestants (1-day)	2,500	

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*

Partnership Opportunities

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

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Gold Sponsor
INR 6,00,000 | EURO 9,000

Silver Sponsor
INR 4,00,000 | EURO 6,000

Gala Dinner
INR 6,00,000 | EURO 9,000

Lunch Sponsor
INR 2,50,000 | EURO 4,000

Associate
INR 1,50,000 | EURO 2,500

Cultural Program
INR 1,50,000 | EURO 2,500

High Tea Sponsor
INR 1,00,000 | EURO 1,500

Department of Textile and Fibre Engineering, IIT Delhi

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.

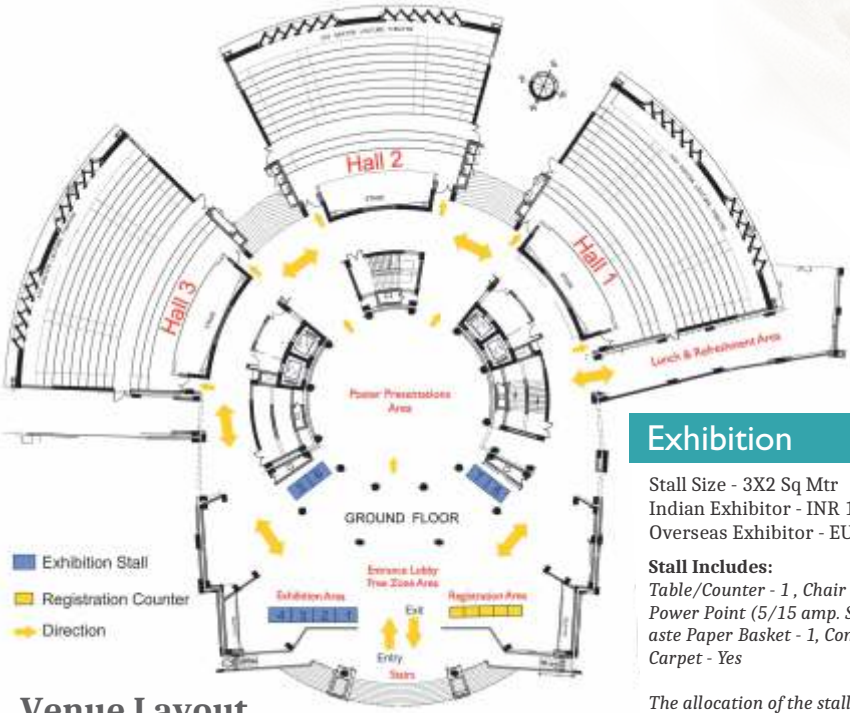
The department has active interaction with several global institutes such as the University of Bolton, UK and the University of Liberec, Czech Republic, in terms of fellowships and internships as well as faculty exchange and joint research. An EU project involving EPFL, Switzerland, Uppsala, Sweden, 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), established in 2018 at Rajiv Gandhi Education City, Sonipat (Delhi NCR), is a university dedicated to education and research in the creative disciplines. Established under the Haryana Private University Act, 2006, WUD is empowered to confer degrees under Sections 2(f) and 22 of the UGC Act. The university offers undergraduate, postgraduate, and doctoral programs across Architecture, Design, Fashion & Textile, Communication, Visual Arts, Performing Arts, and Business & Management. Within this framework, textiles and fashion form a significant area of academic engagement, with a focus on both design-led and technology-oriented approaches.

Teaching and research activities at WUD span areas relevant to contemporary developments in textiles and clothing, including functional apparel, sustainable and circular materials, smart textiles, and digital design processes. The university encourages interdisciplinary work across domains, enabling integration of materials, design innovation, and user-centred approaches. Areas such as performance clothing, craft-based textile systems, and emerging applications in wearable technologies form part of ongoing academic and research initiatives.

WUD maintains academic and research collaborations with a number of national and international institutions, facilitating student exchange, joint projects, and knowledge-sharing initiatives. The university publishes the Journal of Art, Architecture & Design (JAARD) and actively engages in conferences, exhibitions, and industry-linked projects. Through its academic and research activities, WUD seeks to contribute to evolving areas of textiles and clothing, with particular attention to sustainability, innovation, and interdisciplinary practice.



Venue Layout

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, W aste Paper Basket - 1, Company Fascia - Yes, Carpet - Yes

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

Conference Venue: Lecture Hall Complex (LHC), IIT Delhi

Conference Organizer

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