



# 8<sup>th</sup> International Conference on Technical Textiles and Nonwovens

Bridging Performance and Sustainability:  
The Future of Technical Textiles and Nonwovens



## Tentative Program Schedule

### DAY-1 | Friday 6 February 2026 | Program Schedule

10:00AM

Workshop Registration and Welcome Tea

11:00AM

Workshop

**From Waste to Worth: Workshop on Recycling of High-Performance Textiles**

11:00AM

Workshop

**Weaving Sustainability: Hands-On Workshop on Measuring Carbon Footprint in Handloom & Textiles**

1:00PM

Lunch for Workshop Participants

2:00PM

Conference Registration

4:00PM

Conference Inauguration & Welcome Remarks

5:00PM

Inaugural Talk

**Prof. Bipin Kumar - Conference Coordinator**

IIT Delhi as an Innovation Anchor: Bridging Research, Industry and Policy for Technical Textiles

5:20PM

Inaugural Talk

**Mr. Anand Yadav - Managing Director, MEKR**

From Classroom to Company: Building Something Real While You're Still on Campus

5:40PM

Inaugural Talk

**Mr. Kanav Gupta - Strategic Partner : BCH**

From Potential to Powerhouse: India's Rise as a Global Technical Textile Hub

6:00PM

Inaugural Talk

**TBA**

6:20PM

Inaugural Talk

**Ms. Padmini Singla - Joint Secetary, Ministry of Textile, Govt. of India**

Technical Textiles in India: Present Landscape and Future Roadmap — A Government of India Perspective



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## DAY-2 | Saturday 7 February 2026 | Program Schedule

9:00-9:30AM

Welcome Tea

### Parallel Session 1

#### Session 1A(LH-108)

##### PPE and their Multihazard Performance

###### Prof. Jitendra Pratap Singh

Design & Characterization of Laminated Activated Carbon Fabric for Critical Military Applications

###### Ms. Varsha Bandal

AI Integration in the PPE Textile Lifecycle: From Design to Laundry for Performance and Sustainability

###### Mr. Sujaan Satish Kaushik

Lightweight bio aerogels and it's integration into thermal insulating textiles for cold weather conditions.

###### Mr. Sockalingam AI

Assessment of convective and radiative heat transfer coefficients of Extreme cold weather clothing on a Newton thermal manikin

###### Dr. Shamayita Patra

Development of Textile Based Fruit Covering Bags

#### Session 1B(LH-111)

##### From Field and Flock to Fabric

###### Dr. Afrose Fathima Farid

Advancing Textile Sustainability: Natural Dyed Plant Based - Blended Yarns for Craft Industry Implementation

###### Dr. Shivangi Agarwal

A Study on Properties of Union Fabrics Developed with Sisal Fibre for Textile Application

###### Dr. Gargee Bhattacharjee

Development of Fancy Yarn using Local Sheep Wool of Himachal Pradesh

###### Dr. Nidhi Sisodia

Developing Sustainable Textiles from Parali Fibres (Rice stubble): Valorization of Rice Stubble for Eco-Friendly Textile Applications

###### Dr. Kislaya Choudhary

Exploring Sustainability through Interactive Digital Design Space for Digitally Printed Textiles

#### Session 1C(LH-114)

##### Structural Innovation in Textile Composites

###### Dr. Shantanu Bhat

Sustainable Textile-Reinforced Composites: An Interdisciplinary Platform Approach from Materials to Applications

###### Dr. Sugun Sridharan

Three dimensional weaving machines - Technical challenges in their development

###### Dr. Seiko Jose

Analysis of physico-mechanical and aging properties of coarse wool- natural rubber composites

###### Dr. Santanu Basak

Natural fibre reinforced cactus leaf gel infused natural rubber latex dressing based biodegradable engineered flexible composite

###### Mr. Anant Gupta

Study of mechanical properties of high performance thermoplastic composites

#### Session 1D(LH-316)

##### Engineering Textiles for Medical Intervention

###### Dr. Nilanjana Bairagi

Designing Support Pillows for Individuals under Palliative Care

###### Dr. Subhankar Maity

Development of germicidal textiles based on polypropylene and MXene coated cotton fabrics

###### Mr. Hariharasudan Natarajan

Development of antibacterial silk-based implants with electrospun cefiderocol nanofibers and PEO-coated Mg<sub>3</sub>ZnCa

###### Ms. Shweta Shukla

Engineering the Osteochondral Junction: A 3D Bioprinted Full Thickness Cartilage-Bone Model

###### Ms. Amisha Singh

Sustainable Nano functionalised Textiles for Advanced Wound Care and Wellbeing



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10:25-10:45AM

HighTea

11:00AM

Plenary Talk: Academia

**Prof. Thomas Gries - RWTH Aachen University, Germany**

From Fossil to Renewables: Strategies for a Future-Ready Indian Textile Sector

11:20AM

Plenary Talk: Industry

**Mr. Rahul Bansal - Vice President & Head - Nonwovens Business, Birla Cellulose**

Global shifts and future direction of Nonwovens on sustainability & innovation Ask for Abstract

11:40AM

Plenary Talk: Industry

**Mr. Simon Finianos - Sales Director, Reicofil**

Latest developments in Spunmelt Nonwovens – Opportunities and Challenges

12:00PM

Plenary Talk: Industry

**Mr. Utssav Gupta - Director, Supertech Fabrics**

Performance surface engineering for industrial filters

12:20PM

Plenary Talk: Industry

**Mr. Debabrata Ghosh - VP & Sales Director, Barmag**

Fibre( MMF) Power 2030: Navigating Geopolitics - Technology innovation and global expectations

12:40PM

Panel Discussion 1

**Dr. Ashwan Kapur ( Managing Director, Uniproducs), Mr. Rajeev Ranka ( Managing Director, Alpha Foam), IITD Faculty, Invited Faculty**

Beyond the Syllabus: Are Our Graduates Prepared?

13:30-14:30PM

Lunch



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Session 2A(LH-108)	Session 2B(LH-111)	Session 2C(LH-114)	Session 2D(LH-316)
Yarn-to-Garment Against the Blade	Waste-Derived Textile Innovations	Artificial Intelligence in Textile Systems	Smart and Functional Textile Systems
14:30-14:45PM <b>Dr. Nandan Kumar</b> Next-Generation Cut-Resistant Yarns: Para-Aramid/UHMWPE Composites without Metallic Reinforcement	<b>Dr. Hariharasudan Natarajan</b> Development and Characterization of Silk Waste-Based Composite Membranes as Sustainable Leather Alternatives	<b>Dr. Ankur Saxena</b> Real Time Data Monitoring of a garment production floor using needle time	<b>Prof. Prasanth R Krishna</b> Smart Textiles for Flexible Battery and Supercapacitor Applications
14:45-14:55PM <b>Dr. Krishna Prasad Guruswamy</b> Sustainable High-Performance Gloves from Cotton/Recycled Para-aramid/HDPE Blends	<b>Dr. Sanjay Kumar Bhikari Charan Panda</b> Life cycle extension of aramid fibres: a sustainable approach	<b>Dr. Chet Ram Meena</b> Artificial Intelligence (AI) and Digital Sustainability: Transforming the Future of Textile Manufacturing	<b>Prof. Harishchandra Singh</b> Breaking the Energy-Power Trade-off: Engineering Lanthanide-TransitionMetal Interfaces for Next-Generation Supercapacitors
14:55-15:05PM <b>Mr. Shubham Singh</b> Studies on Cut-Protective Performance of Composites Yarn Based Knitted UHMWPE Textiles in Real-World Industrial Applications	<b>Dr. Samita Gupta</b> Waste Utilization in the Textile Sector: Recycling Garment Industry Waste into Handbags	<b>Mr. Ramchandra Pandurang Sawant</b> AI in Textiles	<b>Dr. Rupali Dhiman</b> Relating Haptic Properties and Perceived Similarity in Fabrics and Natural Materials
15:05-15:15PM <b>Mr. Md. Zayedul Hasan</b> Thermal Comfort Behaviour of Cut Protective Workwear fabric made from Filament Twisted Core Sheath yarn	<b>Mr. Rahul Ranjan Ghosh</b> Sustainable Knitwear Solutions from Recycling Tasar Silk Waste for Eco-Friendly Textile Innovation	<b>Mr. Rikhil Nagpal</b> Weaving Sustainability: Generative AI Framework for Craft Preservation in Indian Textiles	<b>Mrs. Anuradha Ajmera</b> Study on Properties of Luminescent Material in Yarns and Fabrics
15:15-15:25PM <b>Mr. Md Azharul Islam</b> Tensile performance of cut protective woven fabrics made with metallic/glass core hybrid yarns	<b>Mr. Blesson Tom Mathew</b> Waste-derived cellulosic fibres for high strength and thermal energy storage applications	<b>Ms. Ishitha Thakalapatty Raghuuram</b> Development of CNN-Based Defect Detection System for Garment Quality Inspection	<b>Ms. Paramjeet Kaur</b> Innovative Smart Textile Application: Reflective School Uniforms for Student Road Safety
15:25-15:45PM	Tea Break & Networking		
15:45-17:15PM	Poster Session		
17:15-18:15PM	Textile Tech Innovator Accelerator Program Finale		
18:30-20:00PM	Cultural Program		
20:00PM Onwards	Dinner		

## DAY-3 | Sunday 8 February 2026 | Program Schedule

9:00-9:30AM

Welcome Tea

### Session 3A(LH-108)

#### Fibrous Barriers to Heat and Flame

##### Dr. Manorama Tripathi

Protective Gloves for Para-Military Forces: Integrating Cut, Fire, and Impact Resistance

##### Dr. Sundaramoorthy Palanisamy

Development of FR non-woven using indigenously developed FR PA66 fibres

##### Dr. Shafieq Ahmad Wagay

Study on the enhancement of the total heat loss and thermal comfort in extreme heat protective garments

##### Mr. Sudhanshu Maurya

Development of a Bench-Scale Instrument for Radiant and Flame Protection Performance in Various Orientations

##### Mr. Md. Jawad Ibn Amin

Fabrication and Evaluation of Thermal Protective Performance and Mechanical Characterization of the Outer Layer of Firefighters' Suits

### Session 3B(LH-111)

#### Upcycling Across Fashion, Materials and Applications

##### Dr. Deepali Singhee

Gond-Inspired Upcycled Denim: A Sustainable Approach to Toddler Fashion

##### Dr. Abhijit Mukherjee

Development of Fashion Garments by Upcycling the Textile Waste

##### Dr. Vinod Vishnu Kadam

Harnessing Coarse Wool for Eco-Conscious Plant Growth: A Textile Solution for Sustainable and Organic Farming

##### Ms. Sangavi T

Mechanical recycling of p-aramid fabric waste

##### Ms. Ayasha Beg

Development and Comparative Characterisation of Bioplastics Films from Water Hyacinth and Sugarcane Bagasse Cellulose Reinforced with Natural Polymers

### Session 3C(LH-114)

#### Chemical Pathways to Multifunctional Textiles

##### Dr. Marwa Abdellah

Eco-Friendly Fabrication of Multifunctional Conductive Textiles for Smart and Sustainable Applications

##### Dr. Rupali Kakaria

Functional Finishing of Cotton Fabric with Microencapsulated Grapefruit Essential Oil for Dual Protection against Mosquitoes and UV Radiations

##### Mr. Safwan Mafaaz K.M.

Multifunctional, Fluorine free chitosan-MTMS on Cotton Fabrics for improved UV Blocking, Antibacterial-Antiseptic and Hydrophobicity Performance

##### Mr. Yadav Avadhesh Anantram

Role of Magnetic NiFe<sub>2</sub>O<sub>4</sub>, O<sub>2</sub>, and Conductive rGO in Tailoring the Dielectric and EMI Shielding Properties of TPU Nanocomposite Films

##### Mrs. Sagarika Aditya

Coating of cotton with ternary blend of Sodium alginate, sugar and bio-latex for a sustainable waterproof textile with moisture vapour permeability

### Session 3D(LH-316)

#### Textiles for Soil, Crop and Construction

##### Prof. Tushar Chandrakant Patil

Processing and Characterization of Flex Banner Waste into Reinforced Roofing Materials

##### Dr. Priya Jaswal

Climate-Resilient Natural Fiber Geotextiles: Enhancing Road Performance under Wetting&Drying and Soaking Conditions

##### Dr. Dinesh Bhatia

Investigation of Interface Shear Behaviour with Sand and Clay for Treated Coir Geotextiles with Benzyl Chloride and Dimethylformamide

##### Rajan Rikhi

Microstructural analysis and engineering of polyethylene terephthalate and olefins for significant impact on geotextile products

##### Mrs. Trupti Ashish Dhoka

Reprocessing of Textile Fiber Waste into Sustainable Agrotech

10:25-10:45AM

HighTea



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11:00AM	Plenary Talk: Academia	<b>Prof. Gang Sun - Professor, University of California, Davis, United States</b> Development of Polylactic Acid Fibrous Materials with Improved Mechanical and Biodegradability and Enhanced Daylight Photoactivity
11:20AM	Plenary Talk: Government	<b>Dr. Vikas Thakare, Scientist G &amp; Associate Director, Drde, Drdo</b> Protective textiles
11:40AM	Plenary Talk: Industry	<b>Mr. Satyapriya Dash - R&amp;D Head, Arvind Human Protection</b> Technical Textiles for Personal Protection: Current Research and Future Direction
12:00PM	Plenary Talk: Industry	<b>TBA</b>
12:20PM	Plenary Talk: Industry	<b>Mr. Kartik Kanodia - Managing Director, Manas Geo Tech India</b> Engineering Reliability Beneath Infrastructure: Innovation and Quality in Geotextiles and Geo-Membranes
12:40PM	Plenary Talk: Academia	<b>Prof. Md Mahbubul Bashar - Professor, Mawlana Bhashani Science and Technology University, Tangail, Bangladesh</b> Technical Textiles for Personal Protection: Current Research and Future Direction
1:00PM	Panel Discussion 2	<b>Mr. Rahul Dubey (Sales and Marketing Manager, Henkel), Dr Nandan Kumar (Managing Director, HPT, recommended by Venus), IITD Faculty, Invited Faculty</b> The Market Tug-of-War: Innovation vs. Marketing

13:30-14:30PM

Lunch



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	Session 4A(LH-108)	Session 4B(LH-111)	Session 4C(LH-114)	Session 4D(LH-316)
	Textiles for Filtration & Noise Control	Circularity: Life Cycle, Emissions and System Transitions	Chemistry of Colour and Textile Surfaces	Engineered Materials and Analysis
14:30-14:45PM	<b>Prof. Vardhaman Bhupal Chougule</b> Impact of Hollow and Solid Polyester Fiber Cross-Sections on Filtration Performance in Needle-Punched Nonwovens	<b>Dr. Subhadeep Paul</b> A Life Cycle Assessment Study: Is Bacterial Cellulose Leather a Sustainable Alternative to Conventional Textile Products?	<b>Boris Mahltig</b> Smart and Functional Textile Surfaces by Coating Applications using Effect Pigments and Functional Pigments	<b>Shekh Md. Mamun Kabir</b> Intercalation of $\alpha$ -zirconium phosphate with amines used as epoxy additives and catalysts
14:45-14:55PM	<b>Dr. Ujjainkumar Pundlik Mhasavekar</b> Recent Developments in Pervaporation Membranes	<b>Dr. Bharti Bisht</b> CA-AIS Framework for Textile Supply Chain Emission Accounting	<b>Dr. Meenakshi Kumari</b> Commercial-Scale Eco-Printing of Silk Fabric Using Natural Mordants and Manjishtha-Based Pigments	<b>Dr. Haree Charan Meena</b> Effect of Twist Multiplier on Wickability of Siro Spun Yarns
14:55-15:05PM	<b>Dr. Janmay Singh Hada</b> Nanofibers, Nonwovens, and Beyond: Next-Generation Textile Filtration Systems	<b>Dr. Preeti Kaur Sachdeva</b> Environmental Impacts of Cotton vs. Milkweed Fibres: A Cradle-to-Gate Life Cycle Assessment	<b>Dr. Arun Kumar Patra</b> Electrochemical dyeing using Indigo colour	<b>Mr. Vignesh G</b> Computational Fluid Dynamics (CFD) Analysis of Process Parameters and Nozzle Design in Meltblowing
15:05-15:15PM	<b>Dr. Meenakshi Ahirwar</b> Sustainable Acoustic Materials from Silk Waste and Natural Fiber-Based Nonwovens	<b>Mr. Biren Vora</b> Game-Theoretic Modelling of Circular Economy Rebound Effect and Track & Trace Capabilities in Sustainable Fashion	<b>Dr. Ramachandran R</b> Extraction and Characterisation of Natural Dye stuff obtained from Cannonball Tree Bark	<b>Mayur Sharma</b> Comprehensive Analysis of Denim Fabric Properties: Influence of Fiber Composition and Weave Architecture
15:15-15:25PM	<b>Mr. Siddhi Vardhan Singh Rao</b> Modelling and Experimental Study on Acoustic Behaviour of Tricot Fabrics	<b>Mr. Gyanesh Kumar Jha</b> Carbon Footprint Assessment of Indian Handloom Production	<b>Mrs. Kathirola Raja</b> Sustainable Dyeing of Cotton with <i>Sesbania grandiflora</i> Extract and Zinc Oxide Nanoparticle Finishes for Improved Color Strength and Functional Properties	<b>Ms. Garima Raj</b> Beyond Clothing: Unveiling the Role of Non-Apparel Textiles in Everyday Use
15:31-15:45PM	<b>Mr. Shantnu Verma</b> Effect of Bonding Techniques and Process Parameters on Thermal and Acoustic Properties of Nonwovens	<b>Ms. Aadhya Singh</b> Assessment of Barriers to Circular Economy Implementation in Indian Textile Industry using ISM MICMAC Technique	<b>Mrs. Aastha Rajawat</b> Effect of Sustainable Pretreatments and Dyeing on Protective Bamboo- Cotton Fabric	<b>Mr. Siddharth Kinariwala</b> Technological Advances Connected to Technical Textile, Nonwoven & Composites
15:45-16:00PM	Tea Break			
16:00-17:00PM	Poster Prize Distribution & Valedictory Session			



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## Poster Presentations

Name	Titel	Institution
Fayeza Noor	Recent innovations in smart textiles and the role of AI in textile industry	Cambridge School
Vijay Verma	NBC Protective Textiles	Defence Research and Development Establishment
Anshika Hansini	Natural dye	Indian Institute of handloom technology, Bargarh
Vinaya D	Repurposing of jackfruit waste into non - woven fabric	Kumaraguru college of technology
Priyanka Pant	Sustainable fiber recovery from cigarette waste to technical textile	Jawaharlal Nehru nehru government engineering college Sundernagar, Mandi, Himachal Pradesh, India
Simar Kaur	The Role of Textile Sensory Feedback on Attention Span Among College Students	IILM University
Swarup Kumar Dash	on Adaptive Surface Textile with Automotive Textile	Indian Institute of Handloom Technology, Bargarh
Jiya Gupta	Bio-based Fiber-Enhanced Geotextiles for Sustainable Unpaved Road Infrastructure Sustainable fiber recovery from cigarette waste to technical textile	Jawaharlal Nehru government engineering college Sundernagar,Mandi, Himachal Pradesh, India
Spandana Prem Deshpande	Positioning of Textile Supply Chain in Sustainability	Dr. D.Y.Patil School of Design
Aishwarya Atul Toley	Upcycling Nonwoven and Woven Polypropylene Packaging Waste through Surface Manipulation for Functional Textile Development	National Institute of Fashion Technology, Kangra
Himadri Tanaya Mahanta	Mechanical properties of natural fibre woven geotextiles	Odisha University of Technology and Research Bhubaneswar
Ankush Shaw	Breathable Polymeric Coatings for Textile Upholstery Application	Indian Institute of Technology Delhi





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Name	Title	Institution
Suhani Ujjwal	Permanent Ink-Lock Technology for Lifetime-Preserved Textile Memorabilia	National Institute of Fashion technology
Abhishek Chakraborty	Sustainability in Style: Risa Fabric as a Bridge between Handloom Traditions and Modern Wear	Jagannath University
Nathiya M	Development and Characterization of Bio-Based Flame Retardant Finishes on Cotton Fabrics Using Chitosan for Sustainable Textile Applications	PSG College of Arts and Science
Rikhil Nagpal	Post -consumer textile waste management: A holistic approach towards a circular economy while bridging socio æ cultural and socio - economic gaps.	Dr D Y Patil School of Design, Dr D Y Patil Vidyapeeth, Pune
Sagnik Ghosh	Development of Biodegradable Polymer based Orthopaedic Implants	Department of textile & fibre engineering, IIT Delhi Huaz Khas
Rojalin Pradhan	Textile Sustainability and Recycling: Toward a Circular Future	Indian Institute of Handloom Technology, Bargarh, Odisha, India
Gargi Sharma	CRISPR-Based Microorganisms for Smart Textile Finishes	Government women polytechnic college, Jaipur, Rajasthan
Anthima Ram	Systematic Review of Diabetic Wound Healing Using Nonwoven Antimicrobial Silver-Ion Embedded and Alginate Dressings	Institute of Design, MIT ADT University
Shakti Bathla	Study on use of reusable cloth diapers made from sustainable fabric	Northern indian institute of fashion technology
Deepali Singhee	Diversifying Gamchhas of Kenjakra in West Bengal for Sustainable Livelihoods: A Study on Innovative End-Uses	ILEAD, Kolkata



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Name	Title	Institution
A. Hari Krithik	Turmeric Nanocoating	Kumaraguru College of Technology
Jothika Jeyabalan	Statistical Optimization and Recombinant Expression of Native Laccase in <i>Pichia pastoris</i> for Enhanced Thermo- and pH-Stable Biocatalysis in Textile Dye Degradation	Indian Institute of Technology Guwahati
Ajithkumar Veluchamy	Sequential Azoreductase-Laccase mediated Biodegradation of Azo-dye by <i>Brevundimonas naejangsanensis</i> AJZ05 and <i>Neobacillus cucumis</i> L03: A sustainable Strategy for Textile Effluent Treatment	Indian Institute of Technology Guwahati
Madhu Priya	Chemically treated flame-retardant cotton vis-a-vis inherent para-aramid fabric in reference to multiple washing	Panipat Institution of Engineering & Technology, Samalakha
Kavita Saroha	Artificial Intelligence in Apparel: Balancing Efficiency, Sustainability and Virtual Fashion Commerce	Amity University Haryana
Akhilesh Kumar Sharma	Influence of Biomolecule on Long-Term stability of Piezoelectric Properties of Poly(vinylidene fluoride) Composite Nanofibers for Athlete Training	IIT Delhi, New Delhi
Aditi Sharma	Integrating Textile Sustainability into Plus-Size Fashion for a Responsible Future	Amity University Haryana
Himani Bir	Consumer Perceptions and Behavioral Insights on Recycling and Upcycling of Post-Consumer Textile Waste: A Case Study from North India	Guru Nanak Dev University
Anjana	Value Addition To Old Childrens'™S Clothes Using Upcycling Techniques	Dept. Apparel and Textile Technology,Guru Nanak Dev University(GNDU)
Upasana Saxena	Marketing Strategies for Bridging Performance and Sustainability: Promoting Innovative Technical Textiles and Nonwovens for a Greener Future	Amity School of Communication



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Name	Title	Institution
Shivangi Bansal	Characterizing Desert Cotton as a Material Filler for Neck Pillow	Indian Institute of Technology Jodhpur
Tarandeep Kaur	Chikankari Embroidery and Sustainable Textile Innovation: Bridging Heritage and Technical Practices	Kanya Maha Vidyalaya, Jalandhar
Akash Patel	Reshaping the throwaway culture, through Rhizomorphic bio-textiles for regenerative disposable packaging: A techno-economic analysis	NIFT Gandhinagar gujarat
Samruddhi Vaibhav Purandare	A hybrid Energy-Harvesting Smart Textile Integrating Thermochromic Sensing and ECG Monitoring for Patients	National Institute of Fashion Technology
Simmi Sharma	Upcycling The Single-Use Plastic in Circular Fashion	Jagannath University
Aditya Bhandari	Valorization of Polyester Waste into Thermoregulatory Polyester Fibre	Jagannath University
Chaitanya Kaustubh Deshpande	Woodland Camouflage with in-situ Functional Finish	Institute of Chemical Technology Mumbai
Kamlekar Preethi	From Farm Waste to Future Materials: Sustainable Composites for Advanced Applications	National Institute of Fashion Technology
Atryee Das	Molecular Ferroelectrics: Harnessing the power of Triglycine Sulphate, a sustainable approach for next-generation energy materials	Indian Institute of Technology Delhi
Shalu Nehra	Dada Lakhmi Chand State University of Performing & Visual Arts, Rohtak	Dada Lakhmi Chand State University of Performing & Visual Arts, Rohtak