

PRIYA JASWAL

ASSISTANT PROFESSOR

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Education

Ph.D. National Institute of Technology Jalandhar (2020-2023)

M.Tech. in Textile Engineering and Management, National Institute of Technology Jalandhar (2010-2012)

B.Tech. in Textile Engineering, J.N. Government Engineering College, Sundernagar (2006-2010)

Teaching Experience: 12 years

Research interest: Yarn structure, Clothing comfort, Modeling and simulation, Technical Textiles

Publications & Research

1. The empirical modeling of snarling in staple yarn, Journal of The Institution of Engineers (India): Series E, 2014
2. Antimicrobial activity of herbal treated cotton fabric, International Research Journal of Engineering and Technology, 2017
3. Surface modification of fibre an apect of comfort properties of fabric, Latest Trends in Textile & Fashion Designing, 2018
4. Investigation on tensile strength characterisation of untreated and surface treated coir geotextiles, Journal of Industrial Textiles, 2022
5. Improvement in the performance of two layered model pavement with treated coir geotextile at the interface, Journal of Industrial Textiles, 2022
6. Laboratory Analysis of the Interface Shear Characteristics of Chemically Treated Coir Geotextiles and Soil Interface, International Journal of Pavement Research and Technology, 2023
7. Experimental study on monotonic behaviour of two-layered unpaved road model reinforced with treated coir geotextiles, International Journal of Pavement Research and Technology, 2024
8. Evaluation of Untreated and Treated Coir Geotextile Performance under Cyclic Loading on Unpaved Roads, International Journal of Pavement Research and Technology, 2024
9. A Review of Emerging Technologies and Future Fabrics for Extreme Cold, Textile & Leather Review, 2024
10. Women's body armor: A comprehensive review of design, performance, and ergonomics, Journal of Engineered Fibers and Fabrics, 2024
11. Nanophotocatalyst-Infused Textile Composites for Environmental Remediation, Smart and

Sustainable Applications of Nanocomposites, 2024.

12. Advancing pavement durability through chemical treatment of coir geotextiles, *International Journal of Pavement Research and Technology*, 2025.
13. Artificial Intelligence For Sustainable Textiles: A Review Across The Value Chain, in the book *Multidisciplinary Approaches in Commerce, Management & Economics*, (ISBN: 978-81-993182-4-3) Bhumi publishing house, October, 2025.
14. Textile-based triboelectric nanogenerator working modes, in book *Textile and Fiber based triboelectric nanogenerators advances and perspectives*, *Woodhead Publishing Series in Electronic and Optical Materials (Elsevier)*, 2025.
15. Textile-based triboelectric nanogenerators as sensor device, *Woodhead Publishing Series in Electronic and Optical Materials (Elsevier)*, 2025.

List of papers published in National and International Conference

16. Effect of fibre cross sectional shape on various fabric characteristics, International conference on “Redefining Textiles Cutting Edge Technology of the Future – RTCT at NIT Jalandhar, 2016
17. Suture in medical textile, International conference on “Redefining Textiles Cutting Edge Technology of the Future – RTCT, 2016
18. Protective Textiles, National Conference on “Global Challenges: Role of Science and Technology in Imparting their Solution GCRSTS at TITS Bhiwani, 2016
19. A Review on Easy Care Finish, National Conference on “Innovative Trends in Science, Technology and ManagementIV at Sri Sai University, Palampur, H.P, 2017
20. Impact of reinforcing treated coir geotextiles on the functional performance of unpaved roads, 3rd International Conference On Emerging Trends In Traditional & Technical Textiles, NIT JALANDHAR, 2023.

List of Short Term courses/conferences/symposium/workshops organized

1. International Conference on Innovation In Textiles (INNOTEX-15), 7 Nov 2015, JNGEC Sundernagar
2. Two days FDP on Teaching Learning Practices for Quality Education, 17-18 March 2017, JNGEC Sundernagar
3. One Week Workshop on “GATE Exam preparation, 19-23 Dec, 2017 JNGEC Sundernagar
4. ONE DAY WORKSHOP on RECENT ADVANCES IN TEXTILE RESEARCH & DEVELOPMENT, 22nd November, 2023, JNGEC Sundernagar

Dr. Priya Jaswal