

Lt. (Dr.) ANKUSH SHARMA

ASSISTANT PROFESSOR

Department of Textile Engineering
JN Government Engineering College, Sundernagar
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Education

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

M.Tech. Textile Engineering and Management, National Institute of Technology Jalandhar (2013)

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

Teaching Experience: 8 years

Industry Experience: 1 year

Research interest: Sustainable Textiles, Biodegradable Geotextiles, Fiber-Reinforced Composites, Advanced Recycling, Eco-Friendly Geotextiles, Industrial Sewing Processes, Needle Heat Management, and Computational Modeling in Textiles.

Academic/Administrative Responsibilities within the College

Position	From	To
Associate NCC Officer	2020	Till Date
Sports Coordinator	2019	2024
OIC Audio/video	2020	2024
Media Coordinator	2022	2024

Research Profile Link

Research Profile	Profile Id
ORCID	https://orcid.org/0000-0001-6632-0232
ResearchGate	https://www.researchgate.net/profile/Ankush-Sharma-2?ev=hdr_xprf
Vidwan	https://vidwan.inflibnet.ac.in/profile/120061

Publications & Research

- [1] Bhatia, D., **Sharma, A.**, & Malhotra, U. (2014). Recycled fibers: an overview. International Journal of Fiber and Textile Research, 4(4), 77-82.
- [2] Midha, V. K., Kumar, S. S., & **Sharma, A.** (2014). Performance of transesterified jute rolled erosion-control products. Geosynthetics International, 21(5), 301-309.
- [3] Midha, V. K., Suresh, K., & **Sharma, A.** (2017). Biodegradable Geomeshes for Rainsplash Erosion Control. Journal of Fiber Bioengineering and Informatics, 10(3), 155-161.

- [4] **Sharma, A.**, & Midha, V. (2021). Impact of machine parameters on industrial sewing needle temperature, *Nat. Volatiles & Essent. Oils*, 8(4),2458-2466.
- [5] **Sharma, A.**, & Midha, V. (2021). Measurement of industrial sewing needle temperature with different experimental techniques. *Int J Text Fash Technol*, 11(2), 1-10.
- [6] **Sharma, A.**, & Midha, V. (2021). The effects of fabric characteristics on industrial sewing needle temperature, *Drugs and Cell Therapies in Hematology*, 10 (1), 1427.
- [7] Koundal, R., Khanduja, R., **Sharma, A.**, & Singh, K. (2023). A review of natural fiber-reinforced polymer composite chemical, physical, and thermo-mechanical properties. *Journal of Fibers and Polymer Composites*, 2(2), 67-80.
- [8] Bhatia, D., Kumar, A., Sharma, P., Kavita, **Sharma, A.**, & Sinha, S. K. (2025). Air Permeability Prediction of Herringbone Weave Using Computational Fluid Dynamics and Finite Element Method. *Fibers and Polymers*, 1-13.

List of papers published in National and International Conference

- [1] **Ankush Sharma** and Vaibhav Gupta (2016). “Different experimental techniques for measurement of industrial sewing needle temperature.” Proceedings of International Conference on Redefining Textiles-Cutting Edge Technology of the Future (RTCT-2016) during 8 - 10 April 2016 at NIT Jalandhar, India.
- [2] Vaibhav Gupta and **Ankush Sharma** (2016). “Effect of Process Parameters on Tensile Properties of Threads during High Speed Lockstitch Sewing” Proceedings of International Conference on Redefining Textiles-Cutting Edge Technology of the Future (RTCT-2016) during 8 - 10 April 2016 at NIT Jalandhar, India.
- [3] Vinay Midha and **Ankush Sharma** (2016). “Application of nanotechnology in self-cleaning clothes”, January 2016 Conference: Proceedings of the International Conference on Nanotechnology for Better Living (NBL-2016) during 25-29 May 2016 at NIT Srinagar, India.
- [4] **Ankush Sharma** and Vinay Midha (2024).” FEA Modeling of Needle Heating in High-Speed Industrial Sewing”. Proceedings of In Textile Research Symposium (pp. 25-37). Singapore: Springer Nature Singapore.

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

1. Two Days Workshop on Transitory Textiles - The Future is Textile, 15-16 November 2019, JNGEC Sundernagar.

Dr. Ankush Sharma