Dr. DINESH BHATIA

ASSISTANT PROFESSOR
Department of Textile Engineering
JN Government Engineering College, Sundernagar
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Education

Ph.D. National Institute of Technology Jalandhar (2021)
M.Tech. in Textile Engineering and Management, National Institute of Technology Jalandhar (2013)
B.Tech. in Textile Engineering, J.N. Government Engineering College, Sundernagar (2010)

Teaching Experience: 8 years

Research interest: Yarn Manufacturing, Yarn Structure, Clothing comfort, Product Development, Modelling and Simulation, Product & Process Optimization.

Academic/Administrative Responsibilities within the College

Position	From	To
OIC Mid-Term Examination	2019	Till Date
Member of Civil Works	2022	Till Date
Chairman Start-up & Incubation Cell	2022	Till Date

PG Dissertation Guided:

Name of Student	Title of Dissertation	Supervisor/Co-Supervisor
Bhanu Priya	Investigate the enhancement of subgrade soil property for the construction of road incorporation of treated coconut coir geotextile	Co-Supervisor
Rishav Sharma	Chemical modification of woven coir geotextile to enhance its physical and mechanical properties for construction of roads	Co-Supervisor

Research Profile Link

Research Profile	Profile Id
ORCID	https://orcid.org/0000-0002-8578-1816
ResearchGate	https://www.researchgate.net/profile/Dinesh-Bhatia?ev=hdr_xprf
Google Scholar	https://scholar.google.com/citations?user=m7PZErYAAAAJ&hl=en
Vidwan	https://vidwan.inflibnet.ac.in//profile/161125
Publons	https://www.webofscience.com/wos/author/record/GPP-6566-2022

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. **Bhatia, D**., & Sinha, S. K. (2014). Comparative assessment & empirical modeling for aesthetic behavior of vortex & ring yarn knitted fabrics on laundering. International Journal of Fiber and Textile Research, 4(4), 62-70.

3. Sharma, N., Kumar, P., **Bhatia, D**., & Sinha, S. K. (2016). Moisture management behaviour of knitted fabric from structurally modified ring and vortex spun yarn. Journal of The Institution of Engineers (India): Series E, 97(2), 123-129.

4. **Bhatia, D**., Malhotra, U., & Malhotra, A. (2016). Impact on properties of woven fabric from structurally modified shoddy/wool blended worsted yarn. Journal of Fashion Technology & Textile Engineering, 4(1), 1-6.

5. **Bhatia, D.,** & Malhotra, U. (2016). Thermophysiological wear comfort of clothing: an overview. J. Text. Sci. Eng, 6(2), 1-8.

6. Gurumurthy, B. R., **Bhatia, D.**, & Ramesh, K. P. (2017). Structural analysis of merino wool, pashmina and angora fibers using analytical instruments like scanning electron microscope and infra-red spectroscopy. International Journal of Engineering Technology Science and Research, 4(8), 112-125.

7. **Bhatia, D**., & Sinha, S. K. (2020). Optimization of structurally modified wool/polyester blended yarns using desirability function. Journal of The Institution of Engineers (India): Series E, 101, 115-124.

8. **Bhatia, D**., & Sinha, S. K. (2020). Thermo-physiological Properties of Structurally Modified Wool/Polyester Blended Machine and Hand-Spun Yarns as a Weft in Handloom Fabrics, Tekstilec, 63(2), 138-50.

9. **Bhatia, D.**, & Sinha, S. K. (2022). Selection of handloom fabrics based on thermo-physiological characteristics using multi-attributes decision making algorithm. Journal of Natural Fibers, 19(13), 6015-6030.

10. **Bhatia, D.,** & Sinha, S. K. (2021). Optimization of thermo-physiological properties of structurally modified wool/polyester blended fabrics using desirability function. Indian Journal of Fibre & Textile Research (IJFTR), 46(2), 111-119.

11. **Bhatia, D**., & Sinha, S. K. (2021). Geometrical modelling of herringbone twill fabric for prediction of thermal resistance using finite element method. Fibers and Polymers, 22(10), 2885-2891.

12. Nurussaba, K., Sinha, A., **Bhatia, D**., Sachdeva, A., & Sinha, S. K. (2022). A study on fatigue behaviour of cotton/lycra core spun yarns. Textile and Leather Review, 5, 484-496.

13. Nurussaba, K., Sinha, A., **Bhatia, D.**, Sachdeva, A., & Sinha, S. K. (2024). Modeling of Lycra/Cotton Core Spun Yarn for Strength and Elastic Recovery Using Adaptive Neuro-Fuzzy Inference System (ANFIS). Journal of The Institution of Engineers (India): Series E, 105(1), 67-75.

14. **Bhatia, D.,** Jaswal, P., & Sinha, S. K. (2024). Women's body armor: A comprehensive review of design, performance, and ergonomics. Journal of Engineered Fibers and Fabrics, 19, 15589250241232151.

15. **Bhatia, D.,** Jaswal, P., & Sinha, S. K. (2024). A Review of Emerging Technologies and Future Fabrics for Extreme Cold. Text. Leather Rev, 7, 265-291.

16. **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. Selection of yarn for better thermal physiological characterstis of fabrics using Multi attributes decision making techniques, International conference on "Advances in Textile, Fashion and Crafts–ATFC at NIFT, Karwar, Jodhpur, Rajasthan, 2021
2. Empirical modeling for aesthetic behaviour on laundering of ring and vortex yarn fabrics, International Conference on Technical Textiles & Nonwovens (ICTN-2014) at IIT Delhi, 2014.

List of Book/ Book Chapters published.

1. Kavita, Sharma, V., Bhatia, D. (2024), A Study of Jeffrey Nanofluid with Internal Heat Source in a Porous Medium: Exploring Realistic Thermal Convection, New Research on Thermal Stresses.

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.
2. Two days Workshop on ArduBotics Robotics, 12-13 April 2023, JNGEC Sundernagar.

Dr. Dinesh Bhatia