CURRICULAM VITAE

Dr. Manisha Yadav

Ph.D., IIT Delhi

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Google scholar link:
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Profile

Experienced researcher and academician with a history of working in textile & fashion national and international educational institutes. The research interest includes sustainable materials, apparel technology, product development, traditional Indian textiles, computer aided design and adobe Photoshop.

Full time Teaching & Industry Experience

- **Assistant Professor (Contractual)** (July 203- till date), DLC SUPVA University, Rohtak , Haryana, India

  Courses Taught: All Subjects related to Textile Design

- **Fiber Innovation Lead** (Aug 2022 – Nov 2022), Pakka Impact Ltd., Bangalore, India

  Role: To explore new sustainable natural fibers for value various added products

- **Teaching Assistant** (July 2017– Dec 2018), Department of Textile and Fibre Engineering, IIT Delhi

  Courses assisted: Laboratory classes of B.Tech students for courses- Textile Fibers, Technology of textile preparation & finishing, Technology of textile coloration

- **Lecturer (**Feb 2015 – Jan 2017), Ethiopian Institute of Textile & Fashion Technology, Bahir Dar University, Bahir Dar (Ethiopia)

  Courses Taught: Apparel Production, Apparel merchandising & marketing, supply chain management, Organizational behaviour, Garment manufacturing process

- **Assistant Professor (**Jan 2015 – Jan 2016**),** Panipat Institute of Engineering and Technology (PIET), Kurukshetra university, Haryana, India

  Courses Taught: Garment Manufacturing Technology, Computer Aided design, Knitting, Textile Management Production, Fabric structure.

- **Teaching Assistant (**July 2014 – Dec 2014), TIT& S Bhiwani, MDU Rohtak, India.

  Courses Taught: Garment manufacturing Technology, Apparel Merchandising, Labs of computer aided design

Academic Qualifications

- **PhD** (*Thesis submitted*), Department of Textile and Fibre Engineering, IIT Delhi, India
  Project Title: Studies on extraction and application of Pearl Millet (*Pennisetum Glaucum*) fibres

- **M. Tech.** (77%, 1st division) (2012 – 2014), Dept. of Fashion and Apparel Engineering, TIT&S Bhiwani, MDU (Rohtak)

- **B. Tech.** (65%, 1st division) (2008 – 2012), Dept. of Fashion and Apparel Engineering, TIT&S Bhiwani, MDU (Rohtak)

Award

- 130th Birth Anniversary of Dr. B. R. Ambedkar (Outstanding performance in higher education) Award/Appreciation 2021, Awarded by Deputy Commissioner (IAS), Charkhi Dadri, Govt. of Haryana.

Non Academic Experience

- Worked as *Girls Hostel Warden* for 8 months in Panipat Institute of Engineering and Technology (PIET), Panipat, Haryana, India.

Publications- Papers & Book Chapters

Research/Review Papers

1. Singh, N., Kaur, A., Madhu, A., & Yadav, M. (2025). Advancements in nanotechnology for biomedical and wearable applications. Next Materials, 8, 100658.
2. Singh, N., & Yadav, M. Empowering Ethiopia's Textile and Leather Industries: A Methodological and Theoretical Framework for Implementing E-Procurement Marketplace for Enhanced Supply Chain Efficiency. Available at SSRN 4743478.
3. Khanna, S., Yadav, M., & Singh, N. (2024). Functionalization of outdoor cotton textiles: combining fragrance and UV protection through β-cyclodextrin derivative inclusion complexes infused with peppermint and clove essential oils. Cellulose chemistry & technology, 58.
4. Yadav, M., Singh, N., Annu, Khan, S. A., Raorane, C. J., & Shin, D. K. (2024). Recent advances in utilizing lignocellulosic biomass materials as adsorbents for textile dye removal: a comprehensive review. Polymers, 16(17), 2417.
5. Yadav, M., Rengasamy, R. S., & Gupta, D. (2023). Fluff pulp from straw of Pennisetum glaucum for hygiene applications. *Indian Journal of Fibre & Textile Research, 48, 336- 345 (IF-0.825)*

6. Yadav, M., Rengasamy, R.S, & Gupta, D. (2019). Characterization of Pearl Millet (*Pennisetum glaucum*) waste. *Carbohydrate Polymers, 212, 160-168. (IF-11.2)*
7. Yadav, M., Singh, N., Kaur, A., & Sahu, O. (2019). Antibacterial activity assessment of woolen fabric treated with natural dyes and chitosan. *Agriculture and Natural Resources*, *53*(2), 188-196.
8. Singh, N., Yadav, M., Khanna, S., & Sahu, O. (2017). Sustainable fragrance cum antimicrobial finishing on cotton: Indigenous essential oil. *Sustainable Chemistry and Pharmacy*, *5*, 22-29. *(IF-5.4)*
9. Singh, N., Yadav, M., & Sahu, O. (2016). Consumer acceptance of apparel e-commerce–Ethiopia. *Intellectual Economics*, *10*(1), 55-62. *(IF-1.27)*
10. Alubel, M., Yadav, M., & Singh, N. (2017). Anthropometric Size Chart for Ethiopian Girls for Better Garment Design. *Journal of Fashion Technology & Textile Engineering, 2017. (IF-0.35)*

Book Chapters

1. Yadav, M., Singh, N., Khanna, S., & Madhu, A. (2024). Nanofinishing of Synthetic Fibres. In Nanotechnology in Textile Finishing: Advancements and Applications (pp. 353-380). Singapore: Springer Nature Singapore.
2. Madhu, A., Singh, N., & Yadav, M. (2024). Challenges and Opportunities in Nanotechnology for Textile Finishing. Nanotechnology in Textile Finishing: Advancements and Applications, 487-511.
3. Singh, N., Madhu, A., & Yadav, M. (2024). Nano-finishing in Apparel Textiles. In Nanotechnology in Textile Finishing: Advancements and Applications (pp. 415-440). Singapore: Springer Nature Singapore.
4. Application of Artificial Intelligence in Fashion Industry, Dr. Nagender Singh Dr. Manisha Yadav, Dr. Shelly Khanna (2024), Book Emerging Trends in Science, Technology and Management, ISBN: 978-81-976964-9-7, Volume 1, Pages: 25-29, Publisher Pen and paper academy.
5. Application of AI in Fashion Supply Chain, Shelly Khanna, Manisha Yadav (2023), Emerging Paradigms and Challenges in Multidisciplinary Education and Research, ISBN: 978-93-5747-343-9.

Conferences

1. Dr Manisha Yadav, Circular Fashion: A Paradigm Shift Towards Sustainable Apparel Industry, 2nd International conference of Indian Science congress association- Rohtak Chapter "Science & Technology for sustainable future", University Institute of Engg. & Technology (UIET) M.D. University Rohtak, Haryana, 7-8th February 2024.
2. Dr Manisha Yadav, Design and development of a kid's attire with a sustainable approach, International conference on sustainable design practices, NIFT Kangra, Himachal Pradesh, 25-27th November 2023
3. Dr Manisha Yadav, Studies on removal of dyes from aqueous solution using cellulosic fibres from Pearl Millet straw, 1st Indo Japan Textile Research conference, IIT Delhi, New Delhi, India, 27- 28th November 2023.

4. Dr Manisha Yadav, Sustainable approaches for textile waste management, 2nd International conference on Sustainability in Fashion design and manufacturing (SIFDM) 2023, PSG college of Technology, Coimbatore, Coimbatore, Tamil Nadu, 8- 9th December 2023.
5. Manisha Yadav, Studies on cellulosic fibres from Pearl Millet Straw for removal of methylene blue from aqueous solution, International e-conference on Biopolymers, APA Bioforum 2022, July 14-16, 2022
6. Manisha Yadav, Pearl millet stalk fibre: Ecofiendly and economic adsorbent for the removal of dye from synthetic textile effluent, Advance in Textile Material & Processes (ATMP) Conference, 17-19 November 2021, UPTTI Kanpur, India
7. Manisha Yadav, Studies on isolation of cellulosic fibers from agriculture biomass, Functional Textile & Clothing (FTC) Conference, 7-9 Feburary 2020, IIT Delhi, India
8. Manisha Yadav, Benchmarking study of sanitary napkins available in India, AUTEX 2019- 19th World Textile Conference, 11th -15th June 2019, Ghent University, Ghent/Belgium.
9. Manisha Yadav, Characterization of Pearl Millet agro waste: A possible source of absorbent layer for hygiene applications, 3rd Young Research Symposium (YRS) on Emerging Trends in Textile, Fiber and Polymer Research, 15th - 17th May 2019, IIT Delhi, New Delhi, India.
10. Manisha Yadav, Method for testing the absorbency of core layer of sanitary napkins, 6th International Conference on Technical textiles and Nonwovens, 6th-8th December 2018, IIT Delhi (India).
11. Manisha Yadav, Agro waste as a source of absorbent for hygiene applications, Functional Textile & Clothing (FTC) Conference, 9-12 Feburary 2018, New Delhi, India.
12. Manisha Yadav, Optimization of natural dye and mordant for woolen products, ICAST-CFE-2016, 4th International Conference, Bahirdar University, Ethiopia.
13. Manisha Yadav, Flexible garment manufacturing using Robotic Technology, International Conference on Advanced Information Communication technology in Engineering (ICAICTE), 22nd - 23rd November 2013, The Technological Institute of Textile & Sciences (TIT&S), Bhiwani, Haryana (India), ISBN: 978-93-5137-638-5(print version) ISBN:978-93-5137-898-3(pdf version).
14. Manisha Yadav, Management Information System (MIS) and Enterprise Resource Planning (ERP) for garment Industry, International Conference on Advanced Information Communication technology in Engineering (ICAICTE), 22nd - 23rd November 2013, The Technological Institute of Textile & Sciences (TIT&S), Bhiwani, Haryana (India). ISBN: 978-93-5137-638-5(print version) ISBN: 978-93-5137-898-3(pdf version).

Contribution/Participation in professional conferences/programme

- Volunteering at The Functional Textile & Clothing (FTC) Conference held at IIT Delhi, India from 7th-9th February 2020.
- Organizer at ANTARANG 2K18 (National level Technical Fest) held at IIT Delhi by Department of Textile and Fibre Engineering, IIT Delhi.

- Organizer at International Symposium on Technical Textiles held at PIET, Panipat on 27th April 2015.
- Participated in Faculty Development Programme held at PIET, Panipat from 6th to 10th July 2015.
- Participated in workshop on Textile & Garment held at TIT&S Bhiwani from 26th to 28th September 2013.

Internship/Industrial projects

- B.Tech. Summer Internship: Richa & Co. Delhi from 14th June 2011 to 25th July 2011.

- M.Tech. Industrial Project: Wazir Advisors Pvt Ltd. Gurugram (India)
  Project: Developed textile and apparel sector vocational training modules

Professional References

- **Prof. Deepti Gupta**
  Professor
  Department of Textile and Fibre Engineering, IIT Delhi
  Email: deepti@textile.iitd.ac.in

- **Prof. R.S. Rengasamy**
  Professor
  Department of Textile and Fibre Engineering, IIT Delhi
  Email: rsr@textile.iitd.ac.in

- **Prof. B. K. Behera**
  Professor
  Department of Textile and Fibre Engineering, IIT Delhi
  Email: behera@textile.iitd.ac.in